









C Technical Hubs (incl. CBS) Drawings & Supporting Information

SECTION 3: TECHNICAL HUB DESIGN

The Technical Hubs comprise several specialist research and technologies that can be shared by the research teams of the LMS Building.

They include:

Proteomics

- Genomics
- Flow Cytometry Histology
- Drosophila Suite
- In-Vitro Imaging (Super Resolution Imaging; Single Molecule Imaging; Confocal Imaging; Live Cell Imaging)
- CryoEM

Electrophysiology, In-Vivo Imaging and CBS Suites are located on Level 1 with common requirements and are therefore discussed in the next section.

The Technical Hubs are located on every floor from Ground Floor to Level 6, creating a full integrated facility. Those facilities that require less daylight are located on lower levels, and centrally within the floorplate to free up perimeter windows to primary labs and secondary support.

Access to all Technical Hubs is via the goods lift or north and south cores. Typically located between the two cores and adjacent the atrium, glazing is proposed where appropriate, to promote science on display. Each hub is closely located to the write-up areas for close supervision as required by the Technical staff.

London Institute of Medical Sciences Medical Research Council (MRC)

SCHEDULE	OE	ACCOMM	AODATION

		20	16 Brie	ef			STAGE 1 - REV	SED BR	RIEF	STAGE 2 - 0	CURRENT	BRIEF		S	TAGE 2	- AS DR	AWN	
Floor Room	Occ	Rate	Unit	Qty	Area	Occ	Rate Unit	Qty	Area	Occ Rate L	Jnit Qt	/ Area	Occ	Rate	Unit	Qty	Area	Notes
TECHNOLOGY HUBS (20 STAFF TOTAL)																		
N-VITRO IMAGING				Subtot	tal: 100 nsm			Subt	otal: 100 nsm		Su	btotal: 100 nsm				Subtot	al: 100 nsm	
Insectary Lobby			0	0	-		4	1	4 nsm		5	L 5 nsm			5	1	5 nsm	controlled access
Central Insectary (Fly Room) 20 x microscopes			40	1	40 nsm		38	1	38 nsm		45	L 45 nsm			47	1	47 nsm	Central to suite. Proximity to open wet lab, cold room, plastics/waste store
Incubator Room (CTR) 12 x fly incubators			18	1	18 nsm		10	1	10 nsm		10	l 10 nsm			8	1	8 nsm	open on to central fly room. Requires b up cooling
Behavioural Room			10	1	10 nsm		10	1	10 nsm		10	l 10 nsm			10	1	10 nsm	
Fly Kitchen			10	1	10 nsm		10	1	10 nsm		10	L 10 nsm			10	1	10 nsm	proximity to central fly room
Quarantine Room			7	1	7 nsm		10	1	10 nsm		10	L 10 nsm			10	1	10 nsm	remote from rest of suite
Microscope Room			10	1	10 nsm		10	1	10 nsm		10	l 10 nsm			10	1	10 nsm	open onto central fly room
Fluorescent Screening Waste / Consumables			5	1	5 nsm		8	1	8 nsm		0) -			0	0	-	Share with rest of floor
IN-VITRO IMAGING				Culture	tal: 230 nsm			6ha	otal: 301 nsm			btotal: 245 nsm				Culture	al: 232 nsm	
Super Resolution Imaging			20	2	40 nsm		25	2	50 nsm		25				24	2	48 nsm	Currently in Neptune Steiner facility
Confocal Microscopes			10	6	60 nsm		10	6	60 nsm		10				10	6	60 nsm	Requires proximity to tissue culture
Single Molecule Imaging			20	1	20 nsm		25	1	25 nsm		25				25	1	25 nsm	Includes scope for adoption of new sin molecule imaging technology
Live Cell Imaging			10	11	110 nsm		10	15	150 nsm		10 1	L 110 nsm			9	11	99 nsm	30sqm expansion to be used as equipment/storage allocation above
Write-up Desk			0	0			4	4	16 nsm		0) -			0	0	-	In scope suite(s); W.U. during imaging. Users noted external meeting/office sp preferred.
CRYO-EM SUITE				Subtot	tal: 100 nsm			Subt	otal: 140 nsm		Su	btotal: 130 nsm				Subtot	al: 165 nsm	
Krios			40	1	40 nsm		40	1	40 nsm		40	40 nsm			40	1	40 nsm	(4.5x5.5 clear room)
Glacios Existing TEM Jeol JEM 1011			20	1	20 nsm		40	1	40 nsm		40	L 40 nsm			58	1	58 nsm	Oversized for future technology
Shared Control Room			0	1	-		20	1	20 nsm		20	L 20 nsm			19	1	19 nsm	Access to both EMs
Prep Room			20	1	20 nsm		20	1	20 nsm		20	20 nsm			28	1	28 nsm	
New imaging modalities			10	2	20 nsm		10	2	20 nsm		0	- (0	1	-	Expansion potential for imaging centre
Services Room			0	0			0	0	-		10	L 10 nsm			20	1	20 nsm	
GENOMICS (3 staff)				Subto	otal: 50 nsm			Sub	ototal: 75 nsm		s	ubtotal: 55 nsm				Subto	otal: 63 nsm	
Facility Suite			40	1	40 nsm		60	1	60 nsm		40	L 40 nsm			49	1	49 nsm	Centrally located within building
Pre-PCR			10	1	10 nsm		15	1	15 nsm		15	l 15 nsm			14	1	14 nsm	
PROTEOMICS (3 staff)				Subto	otal: 40 nsm			Sub	ototal: 40 nsm		5	ubtotal: 50 nsm				Subto	otal: 58 nsm	
Facility Suite			40	1	40 nsm		40	1	40 nsm		50	L 50 nsm			58	1	58 nsm	Centrally located within building
HISTOLOGY (3 staff)				Subto	otal: 40 nsm			Sub	ototal: 20 nsm		5	ubtotal: 20 nsm				Subto	otal: 20 nsm	
Facility Suite			40	1	40 nsm		20	1	20 nsm		20	L 20 nsm			20	1	20 nsm	Adjacent to In-vitro Imaging is key
FLOW CYTOMETRY (3 staff)					#REF!				#REF!			#REF!					#REF!	
Facility Room			40	1	40 nsm	l	40	1	40 nsm		40	40 nsm	l		40	1	40 nsm	

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abell nepp 23 Feb 2018

TECHNICAL HUBS PROTEOMICS

EXISTING FACILITY

The Proteomics Suite occupies two rooms 5007-Mass Spectrometers and 5008-Prep Lab on Level 5 of the CRB. They are separate due to noise of the vacuum pumps used by the mass spectrometers. The combined existing areas total 64sqm. The original 2016 brief requested 40sqm for the facility.

Whilst the original brief requested three mass specs, the users currently have four. They have requested a design to accommodate 5-6 units includ-ing one currently housed in ICTEM and another which belongs to a specific user group.

The Proteomics facility is currently run by two staff members. They dis-cussed the potential to expand to four staff if the facility merges with a new science branch, Metabolomics which will require more Mass Specs and HPLCs for cell culture and animal tissue work.

PROPOSED FACILITY

The current proposal locates Proteomics on Level 3 and accommodates a room for four mass specs, and a Prep Room which exceeds the original brief by 18sqm. This increase does not accommodate merging all of the mass specs, including the merger with Metabolomics.

The potential merger with Metabolomics could have a significant impact on the size of the unit being proposed.

N2G - Nitrogen Generator LOH - Liquid Handler LFC - Laminar Flow Cabinet FCB- Fume Cupboard HPL - HPLC System

- CHL Mass Spec Chiller
- MSP Mass Spec
- SVC Speedvac Concentrator CTF Centrifuge
- CTR Cold Trap
- HWS Hand Wash Station
- LEB Laboratory Sink VCC Chemical Cabinet

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PROPOSED PLAN - PROTEOMICS (LEVEL 3)

		om)			Room ID:
					Typical Department
ENERAL	Research on the function of	proteins and metabolites in a	complex range of biological sy	stems.	Floor 3
	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
1	58 nsm	3 nsm	Extended Hours	Compliant	Desirable
	Containment ACDP CL2	Fumigation No	Safety Risks Biological	<u> </u>	-
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA) Normal Attenuation	Mechanical Noise (NR) NR 60 *	Doors Type	Type 1 Door + Half Leaf	Type 2
	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm	-
	50mm Screed	-	Operation	Swinging	-
	Vinyl		Door Material	Glass/Metal Frame	-
Skirting	150mm coved	-	Door Finish	-	-
			Frame Material	Metal	÷
	Type 1 - 100%	Type 2 - Not Used	Frame Finish	<u>-</u>	<u>.</u>
	Plasterboard & Skim	<u> </u>	Locks	Lock	
Protection	Paint	<u>- </u>	Closers Vision Pnl	Closer Large	<u>.</u>
Protection	-	·	Protection	Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	-	-
	Accessible Grid		Other	-	-
	Metal Tiles w/ PB marg.				
	Washable	-	Window Coverings	At Façade	Internal
Height	TBC	-	Туре	Roller Blinds	-
			Light Control	Solar & Grey-out	-
	Items	Notes	Operation	Manual Draw	-
<u>1</u>	Coat Hooks	<u>3 no.</u>	Manifestations / Film		-
-	-		Shelving (non-lab)	Shelf	Notes
-	-				
Auchite struct blates					
Architectural Notes					
Architectural Notes		Drainage		Structural	
Architectural Notes	Temp (°C): Winter	Drainage HDPE Chem Resist		Loading	Vibration Criteria
IGINEERING HVAC Temp (°C): Summer 21oC	19oC			Loading Heavy Equipment	Vibration Criteria
Architectural Notes GINEERING HVAC Temp [*C]: Summer Temp Tolerance I	19oC Temp Variation	HDPE Chem Resist	<u>.</u>	Loading	<u>Vibration Criteria</u> -
Architectural Notes GINEERING HVAC Temp (°C): Summer 21oC Temp Tolerance ± 0.5oC	19oC Temp Variation Controlled	HDPE Chem Resist		Loading Heavy Equipment	<u>Vibration Criteria</u> -
Architectural Notes IGINEERING HVAC Temp 170: Summer 210C 1 ± 0.50C Ventilation, supply	19oC <u>Temp Variation</u> Controlled Ventilation, exhaust	HDPE Chem Resist Electrical Power Supply		Loading Heavy Equipment Equipment	<u>Vibration Criteria</u> -
Architectural Notes IGINEERING HVAC Temp I*C): Summer 21oC Temp Irecreation ± 0.5oC Ventilation, supply Comfort Cooling	19oC Temp Variation Controlled Ventilation, exhaust General Extract	HDPE Chem Resist Electrical Power Supply 230v, trunking		Loading Heavy Equipment Equipment - Data / AV / Comms	<u>Vibration Criteria</u> -
Architectural Notes KGINEERING HVAC 21oC 21oC 21oC 21oC 21oC 200C 200C 200C 200C 200C 200C 200C 20	19oC <u>Temp Variation</u> Controlled Ventilation, exhaust	HDPE Chem Resist Electrical Power Supply		Loading Heavy Equipment Equipment	<u>Vibration Criteria</u>
Architectural Notes IGINEERING HVAC Temp I ^C (2): Summer 21oC Temp Tolerance ± 0.5oC Yentilation, supply Comfort Cooling Humility 20-60% RH	19oC Temp Variation Controlled Ventilation, exhaust General Extract <u>Air Pressure</u>	HDPE Chem Resist Electrical Power Supply 230v, trunking		Loading Heavy Equipment Equipment - Data / AV / Comms Data / AV / Comms	<u>Vibration Criteria</u> - -
Architectural Notes GINEERING HVAC Tens (C): Summer 121oC Tens (C): Summer 21oC Tens (C): Summer 20.5cC United (C): Summ	19oC Temp Variation Controlled Ventilation, exhaust General Extract Air Pressure Negative Pressure	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	- 	Loading Heavy Equipment Equipment Data / AV / Comms Data / AV / Comms Data	<u>Vibration Criteria</u> - - -
Architectural Notes IGINEERING HVAC Temp TCI: Summer Temp TCI: Summer 210C Temp Tolerance ± 0.5oC Yumitation subgity Comfort Cooling Humatisty 20-GoK RH 4/Fitzation F7 Supply (80-85%) Min Adr Changes	19oC Temp Variation Controlled Ventilation, exhaust General Extract Air Pressure Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets	- 	Loading Heavy Equipment Equipment Data / AV / Comms Data / AV / Comms Data Wireless Digital Projection	<u>Vibration Criteria</u> - - -
Architectural Notes VGINEERING HVAC Temp CC: Summer Temp CC: Summer Temp CC: Summer Temp CC: Summer 21oC Comfort Cooling Humatiny Comfort Cooling Humatiny 4D a CK RH Air Fittration F7 SupArt (80-85%) MinpArt (Nets 4Day (2 Night) (HR Piped Services	19oC Temp Variation Controlled Ventilation, exhaust General Extract Air Pressure Negative Pressure Equipment	HDPE Chem Resist		Loading Heavy Equipment Equipment - Data / AV / Comms Data / AV / Comms Data Wireless	<u>Vibration Criteria</u>
Architectural Notes IGINEERING HVAC Temp 10:1: Summer 21oC Temp 10:1: Summer 21oC Ventilation, supply 1 Comfort Cooling 11 24 11 25 11 26 11 27 12 12 12 12 12 12 12 12 12 12 13 14 15 14 15 15 16 17 16 16 17 18 19 10 10 110 12 12 13 14 14 15	190C Temp Variation Controlled VentRaiton, exhaust General Extract Air Pressure Begative Pressure Equipment See Lab Equip -	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Stantby Power EM Interference Lighting		Losding Heavy Equipment Equipment 	<u>Vibration Criteria</u>
Architectural Notes SGINEERING HVAC Temp TCI: Summer Temp TCI: Summer 21oC Temp TCI: Summer 1 20-GOK RH 4. Pittation, supply 20-GOK RH 4. Pittation, supply 7. Supply (80-85%) 9. Dippley (80-85%) 4. Day (2 Night) /HR Jub CW (cdt 5)	190C Itemy Variation Controlled Vertilation, exhaust General Extract Air Pressure Regative Pressure Eaujement See La Equip - Purtfied- Local	HDPE Chem Resist		Loading Heavy Equipment Equipment Data / AV / Comms Data / AV / Comms Data Data Data / AV / Comms Data Data Data Data Data Data Data Dat	
Architectural Notes NGINEERING HVAC Temp Cit::summer Tame Tolerance 1 - O.SoC Ventilation.tungly 2 - Orabiting 7 - Supply (BR-95%) Min Ar Changes 4 - Dary (2 - Night) (HR Piped Services Vater Lab CW (Cat 5) Dom CW & HW	190C Temp Variation Controlled VentRaiton, exhaust General Extract Air Pressure Begative Pressure Equipment See Lab Equip -	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power EM Interference Lighting Lighting Ceneral Lighting	- - - - - - - - - - - - - - - - - - -	Losding Heavy Equipment Equipment 	<u>Vibration Criteria</u>
Architectural Notes VGINEERING HVAC Temp TCI: Summer 210C Temp TCI: Summer 210C 210C 210C Comfort Cooling ± 0.3oC YentBation, supply 20 - 60% RH 4. Day OK RH Lab CW (cat S) Dom CW & HW Paged Services	190C Temp Variation Controlled Ventiation, exhaust General Extract Air Pressure Negative Pressure Equipment See Lab Equip - - - Purified-Local Softened Water	HDPE Chem Resist		Loading Heavy Equipment Equipment Data / AV / Comms Data / AV / Comms Data Data Data / AV / Comms Data Data Data Data Data Data Data Dat	
Architectural Notes SGINEERING HVAC Temp TCI: Summer Temp TCI: Summer 210C Temp TCI: Summer 210C Comfort Cooling ± 0.50C Yentilation, supply 2.0 - 60% RH 4.1 Fittation J.1 Fittation J.4 Day (20% RH 4.0 Day (20 MgHt) /HR Piped Services Water Lab CW (4ct 5) Dom CW & HW Piped Services	190C Itemy Variation Controlled Vertilation, exhaust General Extract Air Pressure Regative Pressure Eaujement See La Equip - Purtfied- Local	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power EM Interference Uphting Lighting General Lighting Switching	- - - - 500 Lux Detection	Loading Heavy Equipment Equipment Data / AV / Comms Data / AV / Comms Data Data Data / AV / Comms Data Data Data Data Data Data Data Dat	
Architectural Notes VGINEERING HVAC Temp TCI: Summer 210C Temp TCI: Summer 210C 210C 210C Comfort Cooling ± 0.3oC YentBation, supply 20 - 60% RH 4. Day OK RH Lab CW (cls 5) Dom CW & HW Ded Services	190C Temp Variation Controlled Ventiation, exhaust General Extract Air Pressure Negative Pressure Equipment See Lab Equip - - - Purified-Local Softened Water	HDPE Chem Resist Electrical Power Surphy 230y, trunking Cleaners outlets Exercised Structure EM Interference EM Interference Ughting Ughting General Lighting Switching Group Switched	- - - 500 Lux Detection Presence Detection	Laading Heavy Equipment Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Data Wireless Digital Projection Projector Screen Security / Life Safety Security / Sutems 	
Architectural Notes SGINEERING HVAC Temp TCI: Summer Temp TCI: Summer 21oC Temp TCI: Summer 21oC Comfort Cooling Humidity 20-G0% RH 4. D3OC Humidity 21-G0% RH 4. Dir JCR Arbs J Dir JCV (80-55%) Mipht J/HR Piped Services Water Lab CW (ct 5) Dom CW & HW Dend Services Compressed Air	190C Temp Variation Controlled Ventiation, exhaust General Extract Air Pressure Negative Pressure Equipment See Lab Equip - - - Purified-Local Softened Water	HDPE Chem Resist Exercised Prover Solitoly 2300, trunking (Caeners output) (Caeners output	Lux Levels 500 Lux Detection Presence Detection Ballast Type Emergency Ltg	Loading Heavy Equipment Enuipment Data / AV / Comms Data / AV / Comms Data Data Wireless Data Highal Projection Equital Projection Security Sustems Security Sustems Fire Detection Simoke Detector/Sounder	
Architectural Notes sginterning HVAC Temp Tolerance 210C Temp Tolerance 1 0.50C Wattation 10.50C 11.50C 11.50C 12.50C 12.50C </td <td>190C Temp Variation Controlled Ventiation, exhaust General Extract Air Pressure Negative Pressure Equipment See Lab Equip - - - Purified-Local Softened Water</td> <td>HDPE Chem Resist Exercised Prover Solitoly 2300, trunking (Caeners outload) Exercised Caeners outload) Exercised Upthing Upthing Upthing General Lighting Sentitions Group Switched Other Lighting</td> <td></td> <td>Loading Heavy Equipment Eauipment Data / AV / Comms Data / AV / Co</td> <td></td>	190C Temp Variation Controlled Ventiation, exhaust General Extract Air Pressure Negative Pressure Equipment See Lab Equip - - - Purified-Local Softened Water	HDPE Chem Resist Exercised Prover Solitoly 2300, trunking (Caeners outload) Exercised Caeners outload) Exercised Upthing Upthing Upthing General Lighting Sentitions Group Switched Other Lighting		Loading Heavy Equipment Eauipment Data / AV / Comms Data / AV / Co	

LABORATORY FURNIT	IRE				
Lab Benching	<u>Type</u> Bench, H-Frame Workstation with PC	Benchtop Material Trespa Toplab Base	Depth 750mm -	<u>Notes</u>	
Other LF Elements	Above Lab Bench Shelving, wall mtd	<u>-</u>	Other Storage Units - -	- <u>-</u>	<u> </u>
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assum	e SD. PTD included)
	Sink- Epoxy (integral)	Lab CW & HW	Hands-free (sonar)		
	Wash Hand Basin	CW / HW	Hands-free (sonar)	-	
	IENT (ASE*)		ASE = Architecturally (/Engin	neering) Significant Equip	ment ** 0 = Owner C = Contra
	IENT (ASE*)	*. Name/Model	ASE = Architecturally (/Engir Quantity	neering) Significant Equip <u>Size</u>	ment ** O = Owner C = Contra Furnish - Install**
	Extract Equipment Equipment	Name/Model Name/Model	Quantity Quantity		Furnish - Install** Furnish - Install**
	Extract Equipment Equipment Mass Spectroscopy Floor	Name/Model Name/Model Thermofisher Scientific	Quantity Quantity 2 units	Size	Furnish - Install** - -
	Extract Equipment	Name/Model Name/Model Thermofisher Scientific Thermofisher Scientific	Quantity Quantity 2 units 3 units	Size	Furnish - Install** Furnish - Install**
	Extract Equipment 	Name/Model Name/Model Thermofisher Scientific Thermofisher Scientific Peak Scientific	Quantity Quantity Quantity Quantits 3 units	Size	Furnish - Install** Furnish - Install**
Architectural Notes	Extract Equipment Equipment Mass Spectroscopy Floor HPLC Nitrogen Generator EasySpraySourceKit	Name/Model Name/Model Thermofisher Scientific Thermofisher Scientific	Quantity Quantity Quantity Quantity Quantits Quants Quants Quantits Quantit	Size	Furnish - Install** Furnish - Install**
	Extract Equipment Equipment Mass Spectroscopy Floor HPLC Nitrogen Generator EasySpraySourcekit Gas Cylinder	Name/Model Name/Model Thermofisher Scientific Peak Scientific Thermofisher Scientific	Quantity Quantity Quantity Quants 3 units 3 units 1 unit	Size	Furnish - Install** Furnish - Install**
	Extract Equipment Equipment Mass Spectroscopy Floor HPLC Nitrogen Generator EasySpraySourceKit Gas Cylinder Chemicals Storage Cabine	Name/Model Name/Model Thermofisher Scientific Peak Scientific Thermofisher Scientific	Quantity 2 units 3 units 3 units 1 unit 1 unit	Size	Furnish - Install** Furnish - Install**
	Extract Equipment Equipment Mass Spectroscopy Floor HPLC Nitrogen Generator EasySpraySourcekit Gas Cylinder	Name/Model Name/Model Thermofisher Scientific Peak Scientific Thermofisher Scientific	Quantity Quantity Quantity Quants 3 units 3 units 1 unit	Size	Furnish - Install** Furnish - Install**

TECHNICAL HUBS GENOMICS

EXISTING FACILITY

The Genomics Suite carries out research on RNA and DNA, but not blood; they anticipate the single-cell aspect (or Pre-PCR experiments) to grow in the future. The users therefore expressed a preference for close proximity to Flow Cytometry (FACS) due to emerging science and time limits to use samples.

Genomics currently sits in ICTEM (Block L) on Level 2 and in 3 spaces: Room 207-Pre-PCR (clean), Room 208-Genomics (Post-PCR) and a shared hub space (2no half-bays) within the open wet laboratory (204W1). Pre-PCR and Genomics is accessed by the three Genomics staff only, whilst the shared open space is accessible to all building researchers as required.

The existing spaces total 102sqm whilst the original 2016 brief allocated 50sqm.

External to the Suite, 3no ULT freezers (-80oC) within a shared freezer store $_$ are required as well as access to a shared consumables store and a cold room; these areas were not included in the original brief.

PROPOSED FACILITY

The current proposal is 14sqm over the original brief accommodating the items listed in the original brief and those we saw on our site visit for the Pre-PCR and Genomics Lab. However, due to space constraints, the shared facility items have not been accommodated and will have to be considered within the open wet lab in the next stage of design development.

The Genomics Suite is located on Level 3, adjacent Proteomics; centrally located within laboratory floors.

CAF - Cell Analyser **TCB -** Thermal Cycler BMK

- CAB Cell Analyser
- CAR Cell Analyser
- CAH Cell Analyser

CAM - Cell Analyser SPN - Spectrophotometer

- SPQ- Spectrophotometer TCR Thermal Cycler Spectrophotometer
- CAB Cell Analyser
- LQH Liquid Handler HWS Hand Wash Station

LEB - Laboratory Sink

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PROPOSED PLAN - GENOMICS (LEVEL 3)

OOM CRITERIA SHE	arch Council (MRC) ET				abell ne Issued: 23 Feb 2
enomics					Decem ID:
enomics					Room ID:
					Typical Department
	Research with RNA + DNA work	ing closely with Flow Cytometry r	esearch.		Floor 3
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	49 nsm	3 nsm	Extended Hours	Compliant	Desirable
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological	<u> </u>	<u>-</u>
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
Sound Attenuation	Normal Attenuation	NR 60*		Door + Half Leaf	Type 2
			Туре		
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm	-
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Glass/Metal Frame	-
Skirting	150mm coved	· · · · · · · · · · · · · · · · · · ·	Door Finish		-
			Frame Material	Metal	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	-	-
Construction	Plasterboard & Skim	-	Locks	Lock	-
Finish	Paint	-	Closers	Closer	-
Protection	-	-	Vision Pnl	Large	-
	-		Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Rick Flates	-
System	Accessible Grid	Type 2 - Not Osed	Other		
Finish	Metal Tiles w/ PB marg.		Other	<u> </u>	
		·			
Features	Wipeable		Window Coverings	At Façade	Internal
Height	TBC	-	Туре	Roller Blinds	-
			Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual Draw	-
	Coat Hooks	3 no.	Manifestations / Film	·	-
	-				
	- - Mechanical Noise (NR) : NR 60* plasterboard margin.	- Mass Specs on - Higher NR TBC	Shelving (non-lab)	Shelf - coustic Consultants. Ceiling - F	Notes inish : PB marg
Architectural Notes				 coustic Consultants. Ceiling - F	
IGINEERING HVAC	plasterboard margin.	Drainage		<u> </u>	inish : PB marg
IGINEERING HVAC Temp (°C): Summer	plasterboard margin.			 coustic Consultants. Ceiling - F Structural	
IGINEERING HVAC Temp (°C): Summer 22oC	Temp (°C): Winter 22oC	Drainage		- coustic Consultants. Ceiling - F Structural Loading Lab, normal	inish : PB marg
IGINEERING HVAC Temp (°C): Summer 220C Temp Tolerance	Iemp (°C): Winter 220C Iemp Variation	Drainage HDPE Chem Resist -		 coustic Consultants. Ceiling - F Structural	inish : PB marg
IGINEERING HVAC 22oC Temp Tolerance ± 1oC	Temp (°C): Winter 22oC Temp Variation ± 1oC / Hour	Drainage HDPE Chem Resist 		- coustic Consultants. Ceiling - F Structural Loading Lab, normal	inish : PB marg
IGINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 10C Ventilation, supply	Itemp (*C): Winter 22oC Temp Variation ± 1oC / Hour Ventilation, exhaust	Drainage HDPE Chem Resist 		- coustic Consultants. Celling - F Structural Loading Lab, normal Estudement -	inish : PB marg
IGINEERING HVAC Temp (°C): Summer 220C Temp Tolerance ± 10C Ventilation, supply Comfort Cooling	Plasterboard margin. Temp (*C): Winter 22oC Temp Variation ± 1oC / Hour Ventilation, exhaust General Extract	Drainage HDPE Chem Resist - Electrical Power Supply 230v, trunking		- coustic Consultants. Celling - F Structural Leading Lab, normal Equipment - Data / AV / Comms	inish : PB marg
IGINEERING HVAC Temp (°C): Summer 220C Temp Tolerance ± 10C Ventilation, supply Comfort Cooling Humidity	Plasterboard margin. <u>Temp (°C): Winter</u> <u>220C</u> <u>10C</u> (Hour Ventilation, exhaust <u>General Extract</u> <u>Mir Pressure</u>	Drainage HDPE Chem Resist 		Consultants. Celling - F Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms	inish : PB marg
IGINEERING HVAC 220C Temp Tolerance ± 10C Ventilation, supply Comfort Cooling Humidity 554/-10% RH Centrality of	Itemp (*C): Winter 220C Temp Variation ± 10C / Hour Ventilation, exhaust General Extract Air Pressure on Positive Airflow	Drainage HDPE Chem Resist 	. Subject to verification with A	- coustic Consultants. Celling - F Structural Loading Lab, normal Equipment	inish : PB marg
GINEERING HVAC 22oC Temp Tolerance ± 10C Yentilation, supply Comfort Cooling Humidity 554/-10% RH Centrally of Air Fitzation	Isong (C): Winter 220C Temp Variation ± 10C / Hour Verifiation coshast General Extract Air Pressum onPositive Airflow	Drainage HDPE Chem Resist - Electrical Power Supply 230v, trunking		- coustic Consultants. Celling - F Structural Leading Lab, normal Equipment - Data / AV / Comms Data Data MV / Comms Data Data	inish : PB marg
GINEERING HVAC Temp CfcL: Summer 220C Yentilation, supply Confort Cooling Humidity 554/-10% RH Centrally C Air filtration F7 Supply/Extract	Itemp (*C): Winter 220C Temp Variation ± 10C / Hour Ventilation, exhaust General Extract Air Pressure on Positive Airflow	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Essential / Standby Power Essential / Standby Power	. Subject to verification with A	- coustic Consultants. Celling - F Structural Loading Lab, normal Equipment	inish : PB marg
GINEERING HVAC Zoo Temp (*C): Summer 22o2 Temp Tolerance ± 10C Venitation, supply Comfort Cooling Humidity 55+1-20% RH Centrally of AF filtration F7 Supply / Extract Min Ar Changes	Isong (C): Winter 220C Temp Variation ± 10C / Hour Verifiation coshast General Extract Air Pressum onPositive Airflow	Drainage HDPE Chem Resist 	. Subject to verification with A	- coustic Consultants. Ceiling - F Structural Loading Lab, normal Equipment - Data / AV / Comms Data Data Data Digital Projection	inish : PB marg
GINEERING HVAC Temp OfCI: Summer 220C Comfort Cooling Humidity SS/-10% RH Centrally of Air Titration F7 Supply / Extract Min Air Changes 4 Day (2 Night) / HR	Isong (C): Winter 220C Temp Variation ± 10C / Hour Verifiation coshast General Extract Air Pressum onPositive Airflow	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Essential / Standby Power Essential / Standby Power	. Subject to verification with A	- coustic Consultants. Celling - F Structural Leading Lab, normal Equipment - Data / AV / Comms Data Data MV / Comms Data Data	inish : PB marg
IGINEERING HVAC Temp CC: Summer 220C Temp Tolerance ± 10C Venitation, upphy Comfort Cooling Humidity S54-10% RH Centrally CAF Iltration F7 Supply / Extract MinAr Changes 4 Day (2 Night) /HR Piped Services	Isong (C): Winter 220C Temp Variation ± 10C / Hour Verifiation coshast General Extract Air Pressum onPositive Airflow	Drainage HDPE Chem Resist Electrical Dome: Satable 2000, trunking Cleaners outlets Cleaners outlets Cleaners outlets Essential / Standby Power - EM Interference	. Subject to verification with A	- coustic Consultants. Ceiling - F Structural Loading Lab, normal Equipment - Data / AV / Comms Data Data Data Digital Projection	inish : PB marg
GINEERING HVAC Temp [C1: Summer 220C Temp Tolerance] ± 10C Ventilation usually Comfort Cooling Wandfalow Ale Titraton FS Joppy / Extract Min & Changes 4 Jong Zhanges 4 Jong Zhanges 4 Jong Zhanges 4 Jong Zhanges 4 Jong Zhanges Hong Zhanges 4 Jong Zhanges Hong Zhange	Isong (*C): Winter 220C Temp Variation ± 10C / Hour Verifiation coshast General Extract Air Pressum onPositive Airflow	Drainage HDPE Chem Resist Electrical Power Supply 2300, trunking Cleaners outlets 	Subject to verification with A	Structural Loading Lab, normal Eaulement Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Miteless Data Pata	inish : PB marg
GINEERING HVAC Treng [C1: Summer 22oC Treng Tolerance ± 1oC Ventilation, sugarly Comfort Cooling thimility S54/10K RH Centrally ca AF Fitzation AF Fitzation AF Fitzation A Day (2 Night) (HR 4 Day (Cs)) Piped Services Water. Lab CW (Cs 5)	Isong (*C): Winter 220C Temp Variation ± 10C / Hour Verifiation coshast General Extract Air Pressum onPositive Airflow	Drainage HOPE Chem Resist Electrical Pome: Supply 2000, trunking Cleaners outlets Cleaners outlets Essential / Standby Power - EM Interference - Ughting Ughting	Subject to verification with A	Coustic Consultants. Ceiling - F Structural Loading Lab, normal Eulyment Data / AV / Comms Data Mireless Data Projection Stream Security / Life Safety	inish : PB marg <u>Vibration Criteria</u> - - - - -
GINEERING HVAC Imag 2(c). Summer 226C Imag 2(c) and a second seco	Isong (*C): Winter 220C Temp Variation ± 10C / Hour Verifiation coshast General Extract Air Pressum onPositive Airflow	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Essential / Standby Power Minterference Ughting Ughting Ughting	Subject to verification with A	Structural Loading Lab, normal Eaulement Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Miteless Data Pata	inish : PB marg
GINEERING HVAC Treng [C1: Summer 22oC Treng Tolerance ± 1oC Constructions timility Constructions S5x/10K RH Centrally ca Ar Fittation F7 Supply [Extract Min Ar Change 4 Day (2 Night) /HR Piped Services	Interface of the second	Drainage HDPE Chem Resist Electrical Pomer Supply 2300, trunking Cleaners outlets Cleaners outlets Essential / Standby Power EM Interference Ughting Ughting General Ughting Switching	Subject to verification with A	Coustic Consultants. Ceiling - F Structural Loading Lab, normal Eulyment Data / AV / Comms Data Mireless Data Projection Stream Security / Life Safety	inish : PB marg <u>Vibration Criteria</u> - - - - -
KGINEERING HVAC Tima C(1: Summer 2000 Ima Colerance Isoformer Statistics Confort Cooling Hummity Confort Cooling Hummity Syl-1006 HPC (Entraly de Fination PSupply / Extract Min Air Courages de Dary (2) Night/h/H Piped Services Water Lab CW ((ct 5) Dom CW & HW	Isong (*C): Winter 220C Temp Variation ± 10C / Hour Verifiation coshast General Extract Air Pressum onPositive Airflow	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets 	Subject to verification with A	Consultants. Ceiling - F Structural Loading Lab, normal Edulament Data / AV / Comms Data / AV / Comms Data Wireless Data Vicenens Constructure Security Systems	inish : PB marg <u>Vibration Criteria</u> - - - - -
GINEERING HVAC Trans[C1: Summer 22oC Trans[Tof:Incomer] 210C Control Cooling Humility 255/107 RH Centrally CA 4 Day (2 Night) /HR Piped Services United Services Dana Change Had Services Compressed Air	Interface of the second	Drainage HDPE Chem Resist Electrical Pomer Subby 230v, trunking Cleaners outlets Cleaners outlets Electrical / Standby Power Electrical / Standby Power Electrical / Standby Power Uphting Uphting General Lighting Switching Group Switched Other Lighting	Subject to verification with A	Structural Loading Lab, normal Eulignent Data / AV / Comms Data / AV / Comms Data AV / Comms Data Projector Screen Frojector Screen	Inish : P9 marg <u>Vibration Criteria</u> - - - <u>Alarm Systems</u> - - -
GINEERING HVAC Treng [C1: Summer 22oC Treng Tolerance ± 1oC Constructions timility Constructions S5x/10K RH Centrally ca Ar Fittation F7 Supply [Extract Min Ar Change 4 Day (2 Night) /HR Piped Services	Interface of the second	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets 	Subject to verification with A	Consultants. Ceiling - F Structural Loading Lab, normal Edulament Data / AV / Comms Data / AV / Comms Data Wireless Data Vicenens Constructure Security Systems	Inish : P9 marg <u>Vibration Criteria</u> - - - <u>Alarm Systems</u> - - -
GINEERING HVAC Trans[C1: Summer 22oC Trans[Tof:Incomer] 210C Control Cooling Humility 255/107 RH Centrally CA 4 Day (2 Night) /HR Piped Services United Services Dana Change Had Services Compressed Air	Interface of the second	Drainage HDPE Chem Resist Electrical Pomer Subby 230v, trunking Cleaners outlets Cleaners outlets Electrical / Standby Power Electrical / Standby Power Electrical / Standby Power Uphting Uphting General Lighting Switching Group Switched Other Lighting	Subject to verification with A	Structural Loading Lab, normal Eulignent Data / AV / Comms Data / AV / Comms Data AV / Comms Data Projector Screen Frojector Screen	Inish : P9 marg <u>Vibration Criteria</u> - - - <u>Alarm Systems</u> - - -
GINEERING HVAC Imag CG. Summer 220C Imag Tolerance 100 Contents 100 Contents 251/1008 HPC Centraly Ar Histonio 77 Suppy / Entract Min Ar Changes 4 Dary (2) Night/ //R Piped Services Vater Lab CW (Cst 5) Dam CW & HW Paed Services Compressed Air - Embled Gases	Interface of the second	Drainage HDPE Chem Resist Electrical Pomer Subby 230v, trunking Cleaners outlets Cleaners outlets Electrical / Standby Power Electrical / Standby Power Electrical / Standby Power Uphting Uphting General Lighting Switching Group Switched Other Lighting	Subject to verification with A	Structural Loading Lab, normal Eulignent Data / AV / Comms Data / AV / Comms Data AV / Comms Data Projector Screen Frojector Screen	Inish : P9 marg <u>Vibration Criteria</u> - - - <u>Alarm Systems</u> - - -
GINEERING HVAC Imag CG. Summer 220C Imag Tolerance 100 Contents 100 Contents 251/1008 HPC Centraly Ar Histonio 77 Suppy / Entract Min Ar Changes 4 Dary (2) Night/ //R Piped Services Vater Lab CW (Cst 5) Dam CW & HW Paed Services Compressed Air - Embled Gases	Interface of the second	Drainage HDPE Chem Resist Electrical Pomer Subby 230v, trunking Cleaners outlets Cleaners outlets Electrical / Standby Power Electrical / Standby Power Electrical / Standby Power Uphting Uphting General Lighting Switching Group Switched Other Lighting	Subject to verification with A	coustic Consultants. Ceiling - F Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data VV/comms Data VV/comms Data VV/comms Data VV/comms Data Coustant	Vibration Criteria
GINEERING HVAC Imag CG. Summer 220C Imag Tolerance 100 Contents 100 Contents 251/1008 HPC Centraly Ar Histonio 77 Suppy / Entract Min Ar Changes 4 Dary (2) Night/ //R Piped Services Vater Lab CW (Cst 5) Dam CW & HW Paed Services Compressed Air - Embled Gases	Interface of the second	Drainage HDPE Chem Resist Electrical Pomer Subby 230v, trunking Cleaners outlets Cleaners outlets Electrical / Standby Power Electrical / Standby Power Electrical / Standby Power Uphting Uphting General Lighting Switching Group Switched Other Lighting	Subject to verification with A	Coustic Consultants. Ceiling - F Structural Loading Lab, normal Eulignment Data / AV / Comms Data AV / Comms Data Wireless Togetal Projection Projector Screen Courthy / Life Safety Security / Vife Safety Security Systems Security Sy	Vibration Criteria

LABORATORY FURNIT	URE				
Lab Benching	<u>Type</u> Bench, H-Frame	Benchtop Material Trespa Toplab Base	Depth 750mm	Notes	
Other LF Elements	Above Lab Bench Shelving, wall mtd		Other Storage Units	- <u></u>	
Lab Sinks	<u>Sink Type</u> Sink- Epoxy (integral) Wash Hand Basin	Water Source Lab CW CW / HW	Taps Hands-free (sonar) Hands-free (sonar)	Accessories (assume SD, P Splash Pnl & Dry Rack Lab Safety Eye Wash	TD included)
	MENT (ASE*)		* ASE = Architecturally (/Engi	neering) Significant Equipment	** O = Owner C = Contra
Architectural Notes	AENT (ASE*) Extract Equipment - -	Name/Model	* ASE = Architecturally (/Engir Ωuantity	neering) Significant Equipment Size	** O = Owner C = Contra <u>Furnish - Install**</u> -

OOM CRITERIA SHE	ET				
ienomics PRE-PCR	Single Cell research.				Room ID: Typical Departme
	single cell research.				Floor 3
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	49 nsm	<u>3 nsm</u>	Extended Hours	Compliant	Desirable
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological	<u> </u>	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	Normal Attenuation	NR 60*	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm	-
Construction	50mm Screed	<u> </u>	Operation	Swinging	-
Floor Finish	Vinyl	·	Door Material	Glass/Metal Frame	
Skirting	150mm coved	· · · · · · · · · · · · · · · · · · ·	Door Finish	-	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Material Frame Finish	Metal	
Construction	Plasterboard & Skim	Type 2 - Not Osed	Locks	Lock	
Finish	Paint	-	Closers	Closer	-
Protection	-		Vision Pnl	Large	-
	-		Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	-	-
System	Accessible Grid	-	Other	-	-
Finish	Metal Tiles w/ PB marg.	-			
Features	Wipeable	-	Window Coverings	At Facade	Internal
Height	TBC	-	Type	Roller Blinds	-
			Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual Draw	-
	Coat Hooks	3 no.	Manifestations / Film	<u> </u>	-
	Coat Hooks	<u>3 no.</u>		Shelf	Notes
	-		Shelving (non-lab)		- Notes
Architectural Notes	Coat Hooks - - Mechanical Noise (NR) : NR 60* plasterboard margin.		Shelving (non-lab)		
NGINEERING	- - - Mechanical Noise (NR) : NR 60*	- Mass Specs on - Higher NR TBC	Shelving (non-lab)	coustic Consultants. Ceiling - F	
NGINEERING HVAC	- - Mechanical Noise (NR) : NR 60* plasterboard margin.	Mass Specs on - Higher NR TBC	Shelving (non-lab)	coustic Consultants. Ceiling - F	inish : PB marg
NGINEERING HVAC Temp (°C): Summer	- - - Mechanical Noise (NR) : NR 60* plasterboard margin. 	- Mass Specs on - Higher NR TBC	Shelving (non-lab)	 coustic Consultants. Ceiling - F Structural	
NGINEERING HVAC Temp (°C): Summer 22oC	- - - Mechanical Noise (NR) : NR 60* plasterboard margin. Temp (°C): Winter 22oC	Mass Specs on - Higher NR TBC	Shelving (non-lab)		inish : PB marg
NGINEERING HVAC Temp (°C): Summer 220C Temp Tolerance	- - Mechanical Noise (NR) : NR 60* plasterboard margin. Temp (°C): Winter 220C Temp Variation	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist	Shelving (non-lab)	 coustic Consultants. Ceiling - F Structural	inish : PB marg
NGINEERING HVAC Temp (°C): Summer 220C Temp Tolerance ± 10C	- - - - - - - - - - - - - -	Mass Specs on - Higher NR TBC Drainage HIDPE Chern Resist Electrical	Shelving (non-lab)		inish : PB marg
NGINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 10C Ventilation, supply	- - - - - - - - - - - - - -	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist	Shelving (non-lab)	Structural Lab, normal Equipment	inish : PB marg
NGINEERING HVAC Temp (°C): Summer 220C Temp Tolerance ± 10C Ventilation, supply Comfort Cooling	- Mechanical Noise (MI) : NR 60* plasterboard margin. Iemo (*C): Wonter 22oC Temo Variation + 1oC / Hour Ventilation, exhaust General Extract	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist - Electrical Power Supply 2300, trunking	Shelving (non-lab)	Structural Loading Lab, normal Euupment Data / AV / Comms	inish : PB marg
NGINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 10C Ventilation, supply Comfort Cooling Humidity		Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist	Shelving (non-lab)	Structural Loading Lab, normal Eguipment Data / AV / Comms Data / AV / Comms	inish : PB marg
NGINEERING HVAC Temp (°C): Summer 220C Temp Tolerance ± 10C Ventilation, supply Comfort Cooling		Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist - Electrical Power Supply 2300, trunking	Shelving (non-lab)	Structural Loading Lab, normal Euupment Data / AV / Comms	inish : PB marg
NGINEERING HVAC Temp 7(2): Summer 22oC Temp Tolerance ± 1.0C Ventilation, supply Comfort Cooling Humidity S54/-10% RH Centrally c	Mechanical Noise (MI) INR 60* plasterboard margin. Iemm (*C): Writter 22o6 Temm Variation 1 oC / Hour Ventilation, enhangi General Extract Air Presure Diresting Artiflow	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply Cleaners outlets Essential / Standby Power	Shelving (non-lab) Subject to verification with As	Structural Lading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data	inish : PB marg
NGINEERING HVAC 220C Temp Tolerance + 1oC Ventilation, supply Comfort Cooling Humidity 554/10% RH Centrality F7 Supply / Extract Mr Air Changes		Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets	Shelving (non-lab) Subject to verification with As	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms	inish : PB marg
NGINEERING HVAC Temp ("CL: Summer 220C Temp Tolerance 4 Ventilation, supply Confort Cooling Humility 554/-10% RH Centrally (Air Fitration F7 Supply / Extract Min.Air Changes 4 Day (2 Night) / JRR		Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply Cleaners outlets Essential / Standby Power	Shelving (non-lab) Subject to verification with As	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms	inish : PB marg
NGINEERING HVAC Emm [7:5: Summer 220C Emm Tolerance 1 IoC Ventilation, supply Comfort Cooling Humdity 554/10% RH Centrally 67 Supply / Extract Min Ar Changes 4 Day (2 Night) /HR Piped Services		Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist	Shelving (non-lab) Subject to verification with As	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms	inish : PB marg
NGINEERING HVAC Temp (*C): Summer 2200 Imm Tolerance 1 modification, supply Comfort Cooling Humility SS-1/10% RH Centrally (Air Fitration F7 Supply / Extract Min Air Changes 4 Day (2 Night) //HR Piped Services Water		Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply Cleaners outlets	Shelving (non-lab) Subject to verification with Ar	Structural Loading Lab. normal Equipment Data / AV / Comms Data / Co	inish : PB marg
NGINEERING HVAC Temp CC: Summer 220C Temp CC: Summer 220C Temp CC: Summer 210C Verillation, susper Comfort Cooling HummBity S54-10K RH Centrally A fittation F7 Suppl/ JEaract MapA/D/JEAract MapA/D/JEAract Piped Services Valuer. Lab CW (ct 5)		Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist - Electrical Power Supply 230y, trunking Cleaners outlets - - - - - - - - - - - - -	Shelving (non-lab) Subject to verification with Av	Consultants. Celling - F Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety	Vibration Criteria
NGINEERING HVXC Imm C1: Summer 223C Imms Tolerance ± 100mmer Coding Tummile Construct Coding Tummile Mir Ref Consens du Fistuation P7 Supply / Extract Mir Ad Changen du Day (2) Night / NR Piped Services Watar Lab CW (Cat S) Dom CW & HW		Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Subly 230y, trunking Cleaners outlets Essential / Standby Power EM Interference Lighting Lighting Lighting Lighting	Shelving (non-lab) Subject to verification with Ar	Structural Loading Lab. normal Equipment Data / AV / Comms Data / Co	inish : PB marg
VGINEERING HVXC Temp CC: Summer 220C Temp Tolerance ± 10C Verifiation, suspire Comfort Cooling Unitation, suspire Comfort Cooling 4 Day (2 Night) / RA 7 Suppire Cooling 4 Day (2 Night) / RA Piped Service Valar: Lab CW (Ct 5) Dom CW & HW	Temp (*C): Winter plasterboard margin. Temp (*C): Winter 220C Temp Variation 4 LoC / Hour 4 LoC / Hour 6 General Extract Air Tressat General Extract Air Tressat See Lab Equip	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply Zialo, trunking Cleaners outlets Examinal / Standby Power EM Interference Lighting Lighting General Lighting Sentential	Shelving (non-lab) Subject to verification with As Subject to verification with As Subject to the subject of	Consultants. Celling - F Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety	Vibration Criteria
NGINEERING HVAC Temp TC1: Summer 220C 120mont Colong Lumatic Variation Sumit Variation Market Colong Lumatic Variation Market Colong Market Co		Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply 2309, trunking Cleaners outlets - Essential / Standby Power - Editories Ughting Lighting Suitching Suitchi	Shelving (non-lab) Subject to verification with Av	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Virteless Digital Projection Projector Projector Security / Life Safety Security / Life Safety	Vibration Criteria
NGINEERING HVAC TEMP. C1: Summer 220C Temp. C1: Summer 220C Verillation, susply Comfort Cooling Humidity S54-10/0 RH Centrally d Day (2 Night) / HR Piped Services United Services Compressed Air	Temp (*C): Winter plasterboard margin. Temp (*C): Winter 220C Temp Variation 4 LoC / Hour 4 LoC / Hour 4 LoC / Hour 6 General Extract Air Tressat 6 General Extract Air Tressat 5 See Lab Equip	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply Zalov, trunking Cleaners outlets Example Jandow Power Exhina / Standow Power Exhina / Standow Power Lighting Lighting Genera Lighting Group Switched Group Switched Group Switched	Shelving (non-lab) Subject to verification with As Subject to verification with As Subject to the subject of	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety Security / Sustems Frige Datection	inish : P8 marg Vibration Criteria
NGINEERING HVAC Temp TG: Summer 210C 11mm Internation 210C Ventilation supply Ventilation supply Control Cooling United States And Dary (2) Night (Arcentrally dar Elation TS Supply (Estract Min Ar Conners 4 Dary (2) Night (Arcentrally dar Elation TS Supply (Estract Min Ar Conners 4 Dary (2) Night (Arcentrally dar Elation TS Supply (Estract Min Ar Conners 4 Dary (2) Night (Arcentrally dar Conners 1 Dar (2) Night (Arcentrally dar	Temp (*C): Winter plasterboard margin. Temp (*C): Winter 220C Temp Variation 4 LoC / Hour 4 LoC / Hour 4 LoC / Hour 6 General Extract Air Tressat 6 General Extract Air Tressat 5 See Lab Equip	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply 2309, trunking Cleaners outlets - Essential / Standby Power - Editories Ughting Lighting Suitching Suitchi	Shelving (non-lab) Subject to verification with Av	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Virteless Digital Projection Projector Projector Security / Life Safety Security / Life Safety	inish : P8 marg Vibration Criteria
NGINEERING HVAC TEMP. C1: Summer 220C Temp. C1: Summer 220C Verillation, susply Comfort Cooling Humidity S54-10/0 RH Centrally d Day (2 Night) / HR Piped Services United Services Compressed Air	Temp (*C): Winter plasterboard margin. Temp (*C): Winter 220C Temp Variation 4 LoC / Hour 4 LoC / Hour 4 LoC / Hour 6 General Extract Air Tressat 6 General Extract Air Tressat 5 See Lab Equip	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply Zalov, trunking Cleaners outlets Example Jandow Power Exhina / Standow Power Exhina / Standow Power Lighting Lighting Genera Lighting Group Switched Group Switched Group Switched	Shelving (non-lab) Subject to verification with As Subject to verification with As Subject to verification Subject to verification Subject to the subject to	Structural Loading Lab, normal Edugment Data / AV / Comms Data / AV / Comms Data Wireless Dutat Projector Screen Frojector Sc	Initah : P8 marg Vibration Criteria Altern Systems
NGINEERING HVAC Temp TG: Summer 210C 11mm Identification 210C Ventilation supply Ventilation supply Control Cooling United Services Ventilation T5 Supply (Extract Min Ar Contents day (Extract day (Extract da	Temp (*C): Winter plasterboard margin. Temp (*C): Winter 220C Temp Variation 4 LoC / Hour 4 LoC / Hour 4 LoC / Hour 6 General Extract Air Tressat 6 General Extract Air Tressat 5 See Lab Equip	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply Zalov, trunking Cleaners outlets Example Jandow Power Exhina / Standow Power Exhina / Standow Power Lighting Lighting Genera Lighting Group Switched Group Switched Group Switched	Shelving (non-lab) Subject to verification with Av	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety Security / Sustems Frige Datection	inish : P8 marg Vibration Criteria
NGINEERING HVAC Temp TG: Summer 210C 11mm Identification 210C Ventilation supply Ventilation supply Control Cooling United Services Ventilation T5 Supply (Extract Min Ar Contents day (Extract day (Extract da	Temp (*C): Winter plasterboard margin. Temp (*C): Winter 220C Temp Variation 4 LoC / Hour 4 LoC / Hour 4 LoC / Hour 6 General Extract Air Tressat 6 General Extract Air Tressat 5 See Lab Equip	Mass Specs on - Higher NR TBC Drainage HDPE Chem Resist Electrical Power Supply Zalov, trunking Cleaners outlets Example Jandow Power Exhina / Standow Power Exhina / Standow Power Lighting Lighting Genera Lighting Group Switched Group Switched Group Switched	Shelving (non-lab) Subject to verification with As Subject to verification with As Subject to verification Subject to verification Subject to the subject to	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Wireless Data Wireless Data Wireless Eroliedor Screen Frie Detector/Sounder Frie Detector Frie Detector Frie Detector Fr	Initah : P8 marg Vibration Criteria Altern Systems

LABORATORY FURNIT	URE				
Lab Benching	Type Bench, H-Frame	Benchtop Material Trespa Toplab Base	Depth 750mm	Notes	
Other LF Elements	Above Lab Bench Shelving, wall mtd		Other Storage Units		
Lab Sinks	<u>Sink Type</u> Sink- Epoxy (integral) Wash Hand Basin	Water Source Lab CW CW / HW	Taps Hands-free (sonar) Hands-free (sonar)	Accessories (assume SE Splash Pnl & Dry Rac Lab Safety Eye Wash	k
Architectural Notes					
LABORATORY EQUIPM	/IENT (ASE*)		* ASE = Architecturally (/Engir	ooring) Cignificant Equipmo	et \$\$ 0 - Owner C - Cent
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Equipment Laminar Flow Hood	Name/Model	Quantity 1 unit	Size	Furnish - Install**

TECHNICAL HUBS FLOW CYTOMETRY (FACS)

EXISTING

The existing Flow Cytometry (FACS) facility is in Room 4011 on Level 4 of the CRB. The briefed area equals the size of the existing room, 40sqm. The room is internally divided allowing researchers to use the two cell analysers near the entrance of the room. The three staff run the 4 cell sorter work-stations to the back of the room.

The MRC and ICL have recently combined services and the users anticipate needing more equipment in space that they do not currently have. For example, there is a containment FACS (BD FACS Aria II in containment enclosure) within the Commonwealth Building which is to be relocated. Additionally, users noted future work may entail work on patient samples suggestion another room will be required.

The users expressed a preference for close proximity to the Genomics facility due to emerging science and time limits to use samples. It was also noted that the Lymphocyte Development Group is a key user of the facility, so proximity to their wet lab area could be beneficial.

PROPOSED

LMS to confirm if this suite should be collocated with Genomics; however, it is relatively close on Level 3, two floors below.

The current proposal sits on level 5 and is accommodating all items listed on the original brief and pictured upon our visit to the facility. However, due to space and plan depth constraints, we have suggested a split room where 'shared' equipment could be located external to the main room for general use by researchers. This concept and arrangement is to be developed with the users in Stage 3. As we are providing the existing 40sqm, expansion and merger with ICL equipment is not currently being allowed for.

CSR- Cell Sorter BD Aria II CSA - Cell Sorter BD Aria III CSO - Cell Sorter LSR II WSN - Work Station with Computer WSO - Worm Sorter CYT - Imaging Flow Cytometer TRL - Storage Trolley HWS - Hand Wash Station CAN - Cell Analyser Fortessa HWS - Hand Wash Station CAN - Cell Analyser Fortessa HWS - Hand Wash Station

MRC LMS Stage 2 Report - Section 3





	arch Council (MRC)				Issued: 23 Feb 2
OOM CRITERIA SHE	ET				
ow Cytometry + Sh	ared Flow				Room ID:
					Typical Department
	Close links with Genomics due t	to emerging Science between sin	ngle-cell + Facs research.		Floor: 5
NERAL					
INERAL	Nominal Area 40 nsm	Occupants 3 nsm	Hours in Use Extended Hours	Equality Act Compliance Compliant	Natural Light Desirable
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological		-
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	Normal Attenuation	NR 60*	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm	-
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Glass/Metal Frame	-
Skirting	150mm coved	-	Door Finish	-	-
			Frame Material	Metal	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	<u> </u>	-
Construction	Plasterboard & Skim	- <u> </u>	Locks	Lock	-
Finish	Paint	· · <u>· · · · · · · · · · · · · · · · · </u>	Closers	Closer	-
Protection	-	·	Vision Pnl	Large	
		Type 2 - Not Used	Protection	Kick Plates	
Ceiling	Type 1 - 100% Accessible Grid	Type 2 - Not Used	Seals Other	<u>-</u>	<u>-</u>
System Finish	Accessible Grid Metal Tiles w/ PB marg.	·	Uther		
Features	Washable	· · · · · · · · · · · · · · · · · · ·	Window Coverings	At Façade	Internal
Height	TBC	· · · · · · · · · · · · · · · · · · ·	Type	Roller Blinds	incernai
neight	TBC	·	Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual Draw	
Accessories (non cao)	Coat Hooks	3 no.	Manifestations / Film	-	
	-				
	-		Shelving (non-lab)	Shelf	Notes
		- Mass Specs on - Higher NR TB	Shelving (non-lab)		
Architectural Notes	- - Mechanical Noise (NR) : NR 60* plasterboard margin.	- Mass Specs on - Higher NR TB			
Architectural Notes		- Mass Specs on - Higher NR TB			
		- Mass Specs on - Higher NR TB			
IGINEERING				 coustic Consultants. Ceiling - F	
IGINEERING HVAC	plasterboard margin.	Drainage		coustic Consultants. Ceiling - F	inish : P8 marg
IGINEERING HVAC Temp (°C): Summer	Iemp (°C): Winter 220C Temp Variation	Drainage		coustic Consultants. Ceiling - F	inish : P8 marg
IGINEERING HVAC 240C Temp Tolerance ± 10C	Interport of the second	Drainage HDPE Chem Resist		 coustic Consultants. Ceiling - F Structural Loading Lab, normal	inish : P8 marg
IGINEERING HVAC Temp (°C): Summer 24oC Temp Tolerance ± 1oC Ventilation, supply	Itemp (°C): Winter 22oC Temp Variation Uncontrolled Ventilation, exhaust	Drainage HDPE Chem Resist 		Structural Labing Lab, normal Equipment	inish : P8 marg
IGINEERING HVAC Temp (°C): Summer 24oC Temp Tolerance ± 1oC Ventilation, supply Comfort Cooling	Interpretation of the second s	Drainage HDPE Chem Resist 		Coustic Consultants. Ceiling - F Structural Lab, normal Equipment Data / AV / Comms	inish : P8 marg
IGINEERING Temp (°C): Summer 24oC Temp Tolerance ± 1oC Ventilation, supply Comfort Cooling Humidity	Interpolation of the second se	Drainage HDPE Chem Resist 		Structural Laahing Lab, normal Equipment Data / AV / Comms Data / AV / Comms	inish : P8 marg
KGINEERING HVAC Z4oC Temp Tolerance ± 1oC Ventilation, supply Comfort Cooling Humidity Not controlled	Plasterboard margin. Temp (°C): Winter 22oC Temp Variation Uncontrolled Ventilation, exhaust General Extract Air Pressure Positive Airflow	Drainage HDPE Chem Resist 	C. Subject to verification with A	Consultants. Ceiling - f Structural Loading Lab, normal Equipment Data / AV / Comms Data	inish : P8 marg
GINEERING HVAC Temp [?C]: Summer 24oC Temp Tolerance ± 1oC YemItation, supply Comfort Cooling Humidity Not controlled Air Filtration	Isterboard margin.	Drainage HDPE Chem Resist 		Consultants. Ceiling - I Consultants. Ceiling - I Loading Lab, normal Equipment Data / AV / Comms Data Max / Comms Data Wireless	inish : P8 marg
GINEERING HVAC Temp Tolerance ± 1oC Venitation, supply Comfort Cooling Humidity Not controlled Air filtration F7 Suppl (80-85%)	Plasterboard margin. Temp (°C): Winter 22oC Temp Variation Uncontrolled Ventilation, exhaust General Extract Air Pressure Positive Airflow	Drainage HDPE Chem Resist - Electrical Power Supply 230v, trunking Cleaners outlets - Essential / Standby Power	C. Subject to verification with A	Consultants. Ceiling - f Structural Loading Lab, normal Equipment Data / AV / Comms Data	inish : P8 marg
GINEERING HVAC Temp (*C): Summer 24oC Temp Tolerance ± 1oC Ventilation, supply Confort Cooling Humidity Not controlled AF filtration F7 Supply (80-85%) Min Air Changes	Isterboard margin.	Drainage HDPE Chem Resist 	C. Subject to verification with A	Consultants. Ceiling - I Consultants. Ceiling - I Loading Lab, normal Equipment Data / AV / Comms Data Data Digital Projection Digital Projection	inish : P8 marg
IGINEERING HVAC Temp PC-12 Summer 240C Temp Toferance ± 10C Ventilation, supply Comfort Cooling Humidity Not controlled AF Titration F7 Supply (80-85%) Min Ar Changes 4 Day (2 Night) /HR Piped Services	Isterboard margin.	Drainage HDPE Chem Resist 	C. Subject to verification with A	Consultants. Ceiling - I Consultants. Ceiling - I Loading Lab, normal Equipment Data / AV / Comms Data Data MV / Comms Data Wireless	inish : P8 marg
GINEERING HVAC Temp CC: Summer 240C Temp Tolersong ± 10C Vyentitation, supply Comfort Cooling Lismitäty Min Air Changes 4 Filtation Air Filtation Air Filtation Air Filtation Air Ganges 4 Jay (2 Night / JrR Piped Services	Isterboard margin.	Drainage HDPE Chem Resist Electrical Power Susphy 230v, trunking Cleaners outlets Estimative Standby Power Estimative Standby Power Estimative Standby Power Lighting	C. Subject to verification with A	Structural Loading Lab, normal Equipment Data / AV / Comms Data V/ Comms Data V/ comms Data V/ comms Data V/ comms Data	inish : P8 marg
GINEERING HVAC Trans_CC: Summer 24oC Timp:Tolerance ± 1oC Verifitation, useday Comfort Cooling Humidity Not controlled Ar Fittration Ar Fittration Ar Fittration Ar Fittration Paped Services Water. Lab CW (Ct 5)	Isterboard margin.	Drainage HDPE Chem Resist 	C. Subject to verification with A	Consultants. Ceiling - I Consultants. Ceiling - I Lading Lab, normal Eucliment Data / AV / Comms Data / AV / Comms Data Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety	
GINEERING HVAC Temp CC: Summer 240C Temp Tolersong ± 10C Vyentitation, supply Comfort Cooling Lismitäty Min Air Changes 4 Ar filtration Ar filtration Ar filtration Ar filtration Ar filtration A (2014) (2014) (2014) Min Air Changes 4 Joy (2 Night / J/HR Piped Services	Isterboard margin.	Drainage HDPE Chem Resist Electrical Power Susphy 230v, trunking Cleaners outlets Estimative Standby Power Estimative Standby Power Estimative Standby Power Lighting	C. Subject to verification with A	Structural Loading Lab, normal Equipment Data / AV / Comms Data V/ Comms Data V/ comms Data V/ comms Data V/ comms Data	inish : P8 marg
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GIVEERING HVAC Trans_CCL_summer 24oC Trans_CCL_summer 4 1oC Verifitation_usephy Comfort Cooling Humidity Not controlled Ar Fittration Ar Fittration Ar Fittration Priped Services Water Lab CW (Crt.5) Dom CW & HW Pared Services Compressed Air	International and a second sec	Drainage HDPE Chem Resist Electrical Power Subby 230v, trunking 230v, trunking Cleaners outlets Essential / Standby Power EM Interference Uphing Lighting General Lighting Switching Group Switched Group Switched	C. Subject to verification with A	Structural Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data VV/cenes Digital Projection Freieston Screen Security / Life Safety Security / Life Safety Security / Sustems	 jinish : P8 marg
GIVEERING HVAC Trans_CCL_summer 24oC Trans_CCL_summer 4 1oC Verifitation_usephy Comfort Cooling Humidity Not controlled Ar Fittration Ar Fittration Ar Fittration Priped Services Water Lab CW (Crt.5) Dom CW & HW Pared Services Compressed Air	International and a second sec	Drainage HDPE Chem Resist Electrical Power Subby 230v, trunking 230v, trunking Cleaners outlets Essential / Standby Power EM Interference Uphing Lighting General Lighting Switching Group Switched Group Switched	C. Subject to verification with A	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data Wireles Data Projector Screen Frojector Screen Frojector Screen FreeDetection	 jinish : P8 marg
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GIVEERING HVAC Trans_CCL_summer 24oC Trans_CCL_summer 4 1oC Verifitation_usephy Comfort Cooling Humidity Not controlled Ar Fittration Ar Fittration Ar Fittration Priped Services Water Lab CW (Crt.5) Dom CW & HW Pared Services Compressed Air	International and a second sec	Drainage HDPE Chem Resist Electrical Power Subby 230v, trunking 230v, trunking Cleaners outlets Essential / Standby Power EM Interference Uphing Lighting General Lighting Switching Group Switched Group Switched	C. Subject to verification with A	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data VV/ceens Qata / AV / Comms Data VV/ceens Security / Life Safety Security / Life Safety Security / Life Safety Sincke Detector/Sounder Fire Detector/Sounder Fire Control	

w Cytometry + S	inareu Flow				
LABORATORY FURNIT	URE				
Lab Benching	Туре	Benchtop Material	Depth	Notes	
	Bench, H-Frame	Trespa Toplab Base	750mm		
	Workstation with PC	-	-		
Other LF Elements	Above Lab Bench		Other Storage Units		
	Shelving, wall mtd	-		-	-
	-		-	-	
ab Sinks	Sink Type	Water Source	Taps	Accessories (assume 5	SD, PTD included)
	Wash Hand Basin	CW / HW	Hands-free (sonar)	-	
Architectural Notes		-			
Architectural Notes		_			
	MENT (ASE*)				
			* ASE = Architecturally (/Engir		
	AENT (ASE*) Extract Equipment	Name/Model	* ASE = Architecturally (/Engir Quantity	eering) Significant Equipm <u>Size</u>	ent ** O = Owner C = Cont Furnish - Install**
Architectural Notes					
	Extract Equipment - -	Name/Model	Quantity	Size	Furnish - Install** - -

TECHNICAL HUBS HISTOLOGY

EXISTING

Histology is currently located in Room 5026 on Level 5 of the CRB with an area of 20sqm. The original 2016 brief allocated 40sqm for Histology. The room is a shared technology and is, informally, managed by one of the researchers who uses it frequently.

The room requires deeper benches than a typical lab due to the nature of the equipment (microtomes and cryotomes). A fume cupboard was requested as well as a dedicated slice machine for the imaging group; the existing incubator should be located elsewhere.

Researchers working with slices will require proximity to this room. The brief specifically noted the requirement for proximity to In-Vitro Imaging.

PROPOSED

The facility has been proposed on level 5, adjacent the Confocal In-Vitro Imaging Suite. As In-Vitro Imaging rooms are dispersed across three levels, further user briefing is required to determine if there are more specific In-Vitro adjacencies required.

The facility as proposed houses all equipment items listed in the original brief, and within the existing room. Further information is required on the imaging group slice machine to see if it can be located within this room following the removal of the incubator. It is unlikely that a Fume Hood can be accommodated and should be considered as a shared asset elsewhere on the floor.



PROPOSED PLAN - HISTOLOGY (LEVEL 5)

CMT - Cryostat Microtome

- MCT Microtome TMP - Tissue Microprocessor
- TSE Tissue Embedder HWS Hand Wash Station
- LEB Laboratory Sink MIC Microscope
- NXG Decloaking Chamber
- TSB Tissue Cooling Block VCC Chemical Storage Cabinet
- UBC Mobile under bench Storage Unit

MRC LMS Stage 2 Report - Section 3

OOM CRITERIA SHE	ET				
					De ere ID:
listology					Room ID: Typical Departme
	Shared Equipment Room for Sli	se Werk			Floor: 5
	Shared Equipment noom for Sir				F1001.3
ENERAL	Nominal Area	0	Harris In Har	Council to Ant Council to an	Natural Light
	20 nsm	Occupants -	Hours in Use Extended Hours	Equality Act Compliance Compliant	Desirable
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological	<u>.</u>	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	Normal Attenuation	NR 60*	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm	-
Construction	50mm Screed		Operation	Swinging	-
Floor Finish	Vinyl		Door Material	Glass/Metal Frame	-
Skirting	150mm coved		Door Finish	Glassy metal manie	
Skirting	1300000	· -	Frame Material	Metal	-
Partitions	Type 1 - 100%	Tune 7 Net Used	Frame Finish	inc ull	
Construction	Plasterboard & Skim	Type 2 - Not Used	Frame Finish Locks	Lock	
Finish	Plasterboard & Skim Paint	- <u>- </u>	Closers	Closer	
Protection	Paint				
Protection	-		Vision Pnl	Large	
			Protection	Kick Plates	
Ceiling	<u>Type 1 - 100%</u>	Type 2 - Not Used	Seals	<u>.</u>	-
System	Accessible Grid	<u> </u>	Other		-
Finish	Metal Tiles w/ PB marg.				
Features	Washable		Window Coverings	At Façade	Internal
Height	TBC	-	Туре	Roller Blinds	-
			Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual Draw	-
Accessories (non-Lab)	Items Coat Hooks	Notes 3 no.		Manual Draw	
Accessories (non-Lab)			Operation	Manual Draw	<u>-</u>
Accessories (non-Lab)	Coat Hooks Mechanical Noise (NR) : NR 60*		Operation Manifestations / Film Shelving (non-lab)	- <u>Shelf</u> -	<u>Notes</u>
Accessories (non-Lab) Architectural Notes	Coat Hooks - - -	<u>3 no.</u>	Operation Manifestations / Film Shelving (non-lab)	- <u>Shelf</u> -	
Architectural Notes	Coat Hooks Mechanical Noise (NR) : NR 60*	<u>3 no.</u>	Operation Manifestations / Film Shelving (non-lab)	- <u>Shelf</u> -	
	Coat Hooks Mechanical Noise (NR) : NR 60*	3 no.	Operation Manifestations / Film Shelving (non-lab)	- <u>Shelf</u> -	
Architectural Notes NGINEERING HVAC	Coat Hooks - - Mechanical Noise (NR) : NR 60* plasterboard margin.	3 no.	Operation Manifestations / Film Shelving (non-lab)		
Architectural Notes NGINEERING HVAC Temp (°C): Summer	Coat Hooks	3 no.	Operation Manifestations / Film Shelving (non-lab)	Shelf Structural Loading	inish : PB marg
Architectural Notes NGINEERING HVAC Temp (*C): Summer 24oC	Coat Hooks Mechanical Noise (NR) : NR 60* plasterboard margin. Temp (°C): Winter 22oC	3 no.	Operation Manifestations / Film Shelving (non-lab)		inish : PB marg
Architectural Notes NGINEERING HVAC Temp TC: Summer 240C Temp Tolerance	Coat Hooks	3 no. - Mass Specs on - Higher NR TBI Drainage HDPE Chem Resist -	Operation Manifestations / Film Shelving (non-lab)	Shelf Structural Loading	inish : PB marg
Architectural Notes NGINEERING HVAC Temp (*C): Summer 240C Temp Tolerance t 20C	Coat Hooks	3 no. Mass Specs on - Higher NR TBR Drainage HDPE Chern Resist Electrical	Operation Manifestations / Film Shelving (non-lab)		inish : PB marg
Architectural Notes NGINEERING HVAC Temp Tolerance 2240C Yentilation, supply	Cost Hooks	3 no. - Mass Specs on - Higher NR TBU Drainage HDPE Chem Resist - Electrical Power Supply	Operation Manifestations / Film Shelving (non-lab)		inish : PB marg
Architectural Notes NGINEERING HVAC Temp f(2): summer 24oC Temp Tolerance + 2oC Ventilation, supply Confront Cooling	Coat Hooks	3 no.	Operation Manifestations / Film Shelving (non-lab)	Structural Lashing Equipment Data / AV / Comms	inish : PB marg
Architectural Notes NGINEERING HVAC Temp ffci: Summer 24oC femp factors 1 2oC Ventilation, supply Comfort Cooling Humidity	Cost Hooks	3 no. - Mass Specs on - Higher NR TBU Drainage HDPE Chem Resist - Electrical Power Supply	Operation Manifestations / Film Shelving (non-lab)	Structural Lab, normal Guigenet Data / AV / Comms Data / AV / Comms	inish : PB marg
Architectural Notes NGINEERING HVAC Temp fcl: summer 24oC Temp Toterance + 2oC Ventilation, supply Confort Cooling Humidity Not controlled	Coat Hooks	3 no. Mass Specs on - Higher NR TBR Drainage HDPE Chern Resist Electrical Power Supply Cleaners outlets Laners outlets	Operation Manifestations / Film Shelving (non-lab)	Structural Loading Lab, normal Equipment Data / AV / Comms Data	inish : PB marg
Architectural Notes NGINEERING HVAC Temp 20ci Summer 240C Ventilation, supply Comfort Cooling Humidity Not controlled Ar Effortation	Cost Hooks	3 no.	Operation Manifestations / Film Shelving (non-lab)	Structural Lab. normal Equipment Data / AV / Comms Data Mireless	inish : PB marg
Architectural Notes NGINEERING HVAC Temp fCl: summer 24oC Temp Toterance + 2oC Ventilation, supply Confrort Cooling Humidity Not controlled Air Effration F7 Supply (80-85%)	Coat Hooks	3 no. Mass Specs on - Higher NR TBR HDPE Chern Resist Electrical Power Supply Cleaners outlets Essential / Standby Power Essential / Standby Power	Operation Manifestations / Film Shelving (non-lab)	Structural Loading Lab, normal Equipment Data / AV / Comms Data	inish : PB marg
Architectural Notes NGINEERING HVAC Temp ?fci: Summer 240C 'Temp 240C 'Temp and temp	Cost Hooks	3 no. Mass Specs on - Higher NR TBR Drainage HDPE Chern Resist Electrical Power Supply Cleaners outlets Laners outlets	Operation Manifestations / Film Shelving (non-lab)	Structural Lab.normal Equipment Data / AV / Comms Data / AV / Comms	inish : PB marg
Architectural Notes NGINEERING HVAC Temp fCl: Summer 24oC Temp Tolerance + 2oC Ventilation, supply Confrort Cooling Humidity Not controlled Air Fitration F7 Supply (80-85%) Min Air Changes 4 Day (2 Night) /JRR	Cost Hooks	3 no. Mass Specs on - Higher NR TBR HDPE Chern Resist Electrical Power Supply Cleaners outlets Essential / Standby Power Essential / Standby Power	Operation Manifestations / Film Shelving (non-lab)	Structural Lab. normal Equipment Data / AV / Comms Data Mireless	inish : PB marg
Architectural Notes NGINEERING HVAC Temp Tolerang Adoc Temp Tolerang Addition Addition Temp Tolerang Addition Addition Addition Ad	Cost Hooks	3 no.	Operation Manifestations / Film Shelving (non-lab)	Structural Lab.normal Equipment Data / AV / Comms Data / AV / Comms	inish : PB marg
Architectural Notes NGINEERING HVAC Temp [7c]: Summer 240C Temp 240C Temp 240C Temp 240C Temp 200 Temp	Cost Hooks	3 no. Drainage HDPE Chern Resist HDPE Chern Resist Electrical Power Supply 2300, trunking Cleaners outlets Electrical Electrical Lighting Lighting Lighting	Operation Manifestations / Film Shelving (non-lab)	Structural Loading Lab, normal Ecuapment Data / AV / Commos Data / AV / Commos	inish : PB marg
Architectural Notes NGINEERING HVAC Temps [70: Summer: 240C Temps	Cost Hooks	3 no.	Operation Manifestations / Film Shelving (non-lab)	Structural Labaling Lab.normal Equipment Data / AV / Comms Data	inish : P8 marg <u>Vibration Criteria</u> - - - -
Architectural Notes NGINEERING HVAC Emem 2 ⁻¹ Ci: Summer 240C Temm 2 ⁻¹ Ci: Summer 240C Vernitation.supply Comfort Cooling Humility Mot controlled 47 Supply (80-85%) Min Air Chavares 4 Day (2 Night) /HR Piped Services Water Lab Cdw (Cat 5) Dom CW & HW	Cost Hooks	3 no. Drainage HDPE Chern Resist HDPE Chern Resist Electrical Power Supply 2300, trunking Cleaners outlets Electrical Electrical Lighting	Operation Manifestations / Film Shelving (non-lab) Subject to verification with A	Structural Loading Lab, normal Ecuapment Data / AV / Commos Data / AV / Commos	inish : PB marg
Architectural Notes NGINEERING HVAC Temps [70: Summer: 240C Temps	Cost Hooks	3 no. Drainage HDPE Chem Resist Flectrical Power Sually 230y, trunking Cleaners outlets Essential / Standby Power Essential / Standby Power Lighting Lighting General Lighting Southing	Operation Manifestations / Film Shelving (non-lab)	Structural Labaling Lab.normal Equipment Data / AV / Comms Data	inish : P8 marg <u>Vibration Criteria</u> - - - -
Architectural Notes NGINEERING HVAC Emem 2 ⁻¹ Ci: Summer 240C Temm 2 ⁻¹ Ci: Summer 240C Vernitation.supply Comfort Cooling Humility Mot controlled 47 Supply (80-85%) Min Air Chavares 4 Day (2 Night) /HR Piped Services Water Lab Cdw (Cat 5) Dom CW & HW	Cost Hooks	3 no. Drainage HDPE Chern Resist HDPE Chern Resist Electrical Power Sugary 230v, trunking Cleaners outlets Electrical Essential / Standby Power EM Interference, Lighting Lighting Lighting Satisthias General Lighting Satisthias	Operation Manifestations / Film Shelving (non-lab)	Shelf Shelf Coustic Consultants. Ceiling - f Coustic Consultants. Ceiling - f Lab, normal Ecularment Data / AV / Comms Security Science Security Science Security / Life Safety Security / Sciences Security / Sciences Security / Sciences	inish : P8 marg <u>Vibration Criteria</u> - - - -
Architectural Notes NGINEERING HVAC Tang (°C): Summer: 240C Urang 10: Summer: 240C Urang 10: Summer: 240C Urang 10: Summer: 250C Urang 10	Cost Hooks	3 no.	Operation Manifestations / Film Shelving (non-lab)	Structural Structural Lab.normal Equipment Data / AV / Comms Data / AV / Comm	Vibration Criteria
Architectural Notes NGINEERING HVAC Temps [70: Summer: 240C Temps	Cost Hooks	3 no. Drainage HDPE Chern Resist HDPE Chern Resist Electrical Power Sugary 230v, trunking Cleaners outlets Electrical Essential / Standby Power EM Interference, Lighting Lighting Lighting Satisthias General Lighting Satisthias	Operation Manifestations / Film Shelving (non-lab)	Shelf Shelf Coustic Consultants. Ceiling - f Coustic Consultants. Ceiling - f Lab, normal Ecularment Data / AV / Comms Security Science Security Science Security / Life Safety Security / Sciences Security / Sciences Security / Sciences	Vibration Criteria
Architectural Notes NGINEERING HVAC Tang (°C): Summer: 240C Urang 10: Summer: 240C Urang 10: Summer: 240C Urang 10: Summer: 250C Urang 10	Cost Hooks	3 no.	Operation Manifestations / Film Shelving (non-lab) . Subject to verification with A	Shelf Shelf Consultants. Ceiling - f Coustic Consultants. Ceiling - f Structural Lab.normal Equipments Data / AV / Comms Data / AV / Comms	Vibration Criteria
Architectural Notes NGINEERING HVAC Tang (°C): Summer: 240C Urang 10: Summer: 240C Urang 10: Summer: 240C Urang 10: Summer: 250C Urang 10	Cost Hooks	3 no.	Operation Manifestations / Film Shelving (non-lab)	Structural Structural Lab.normal Equipment Data / AV / Comms Data / AV / Comm	Vibration Criteria
Architectural Notes NGINEERING HVAC Tang (°C): Summer: 240C Urang 10: Summer: 240C Urang 10: Summer: 240C Urang 10: Summer: 250C Urang 10	Cost Hooks	3 no.	Operation Manifestations / Film Shelving (non-lab) . Subject to verification with A	Shelf Shelf Consultants. Ceiling - f Coustic Consultants. Ceiling - f Structural Lab.normal Equipments Data / AV / Comms Data / AV / Comms	Vibration Criteria

LABORATORY FURNIT	URE				
Lab Benching	<u>Type</u> Bench, H-Frame	Benchtop Material Trespa Toplab Base	Depth 750mm	Notes	
Other LF Elements	Above Lab Bench Shelving, wall mtd		Other Storage Units		
Lab Sinks	<u>Sink Type</u> Sink- Epoxy (integral) Wash Hand Basin	Water Source Lab CW CW / HW	Taps Hands-free (sonar) Hands-free (sonar)	Accessories (assume SD,	PTD included)
Architectural Notes	IENT (ASE*)		* ACE – Arabitacturallu (/Enai	onders) Similian t Equinance	** 0 - 0uiser C - Cent
	IENT (ASE*) Extract Equipment	Name/Madel	* ASE = Architecturally (/Engir Quantity	eering) Significant Equipmen Size	** O = Owner C = Contr Furnish - Install** - -

TECHNICAL HUBS DROSOPHILA SUITE

EXISTING

The current Drosophila Suite is located on Level 2 in ICTEM adjacent to Genomics and in an open-bay wet laboratory. It has close proximity to a freezer store, cold room, dark room, tissue culture, shared prep rooms and shared storage.

The existing suite accommodates approximately 100-120sqm of the floor but has been briefed for 100sqm. Storage space was requested, but space was not allocated.

PROPOSED

The Drosophila Suite as proposed is located on level 2 adjacent central washing and media prep facilities. We have allocated a room to each of the functions requested but a more detailed review of the areas is required with the Client and users to ensure all equipment is captured. We are currently showing 20no microscopes requested, and 11 pairs of (stacked) incubators (only assumed). More generous spaces might be achieved if functions can be shared with other support rooms on the floor. As proposed, requested storage is allocated within a shared consumables store adjacent the goods lift.

TECHNICAL HUBS DROSOPHILA SUITE



LSK - Lab Sink FLM - Mobile Bench MIC - Microscope WSN - Work Station IINS - Fly Incubator HWS - Hand Wash Station MSC - Microbiological Safety Cabinet

MRC LMS Stage 2 Report - Section 3

PROPOSED PLAN - DROSOPHILA (LEVEL 2)

PECIALIST SECOND/	ARY - INSECTARY LAB	1			Room ID:
	Direct Secondary Incostary I	ab. This soom may be seduce	d un size to accommodate a gr	enter number of insubators	Drosophila Suite
	within the Controlled Tempa		a un size to accommodate a gr	eater number of incubators	Second Floor
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	49 nsm	TBC	Full 24 hour use	Compliant	Desirable
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological/Chem		
	ACDF CLZ	NO	biological/client		-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
-	See arch. Note	See arch. Note	Туре	Door + Half Leaf	-
Floors Construction	Type 1 - 100% 50mm Screed	Type 2 - Not Used	Size Operation	1200 mm * Swinging	
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	150mm coved	-	Door Finish	HPL	-
-			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Plasterboard & Skim	Glazed Screen	Locks	Swipe card access lock	-
Finish Protection	Paint		Closers Vision Pnl	Closer	-
Protection		<u> </u>	Protection	Large Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	-	-
System	Accessible / Sound att.	-	Other	-	-
Finish	Metal/Painted				
Features	Washable	-	Window Coverings	At Façade	Internal
Height	<u> </u>	<u> </u>	Туре	Roller Blinds	
Accessories (non-Lab)	Items	Notes	Light Control	Anti-Glare/Black-out	-
			Operation	Manual Draw	-
	Cost Hooks	No the			
	Coat Hooks	No. tbc	Manifestations / Film		-
	Coat Hooks - -	No. tbc	Manifestations / Film Shelving (non-lab)	- Shelf	- Notes
				<u> </u>	
Architectural Notes	- - - Acoustic consultant to advis		Shelving (non-lab)	<u> </u>	
Architectural Notes	- - - Acoustic consultant to advis		Shelving (non-lab)	<u> </u>	
Architectural Notes GINEERING HVAC Temp (² C): Summer	- Acoustic consultant to adviss 1200 mm.	e on Sound Attenuation. * Clex	Shelving (non-lab)	- minimum. Clear opening of lea	
Architectural Notes VGINEERING HVAC Temp [^C]: Summer 23oC	- Acoustic consultant to adviss 1200 mm. Temp (*C): Winter 21oC	e on Sound Attenuation. * Clea	Shelving (non-lab)		af and half between 100
Architectural Notes NGINEERING HVAC Temp 7ct: summer 230C Temp Tolerance	- - Acoustic consultant to advise 1200 mm. Temp [¹ C]: Winter 210C Temp Variation	e on Sound Attenuation. * Cles Crainage Special	Shelving (non-lab)	 minimum. Clear opening of le: Structural	af and half between 100
Architectural Notes VGINEERING HVAC Temp (*C): Summer 230C Temp 20c Temp 20c	- - - - - - - - - - - - - -	on Sound Attenuation. * Cle Drainage Special 	Shelving (non-lab)		af and half between 100
Architectural Notes NGINEERING HVAC Temp 7ct: summer 230C Temp Tolerance	- - Acoustic consultant to advise 1200 mm. Temp [¹ C]: Winter 210C Temp Variation	on Sound Attenuation. * Cle Drainage Special Electrical Fower Supply	Shelving (non-lab)		af and half between 100
Architectural Notes VGINEERING HVAC Temp ² Ct: Summer 23oC <u>Temp 23oC</u> Ventlation, supply Comfort Cooling Humidity	Acoustic consultant to advise 1200 mm. Temp (*CI: Winter 210C Temp Variation 1 20C / Hour Vernitation, exhaust General Extract Alf Pressare	on Sound Attenuation. * Cle Drainage Special Electrical	Shelving (non-lab) ar opening of full leaf 800 mm	Clear opening of les Structural Loading Equipment Data / AV / Comms Data / AV / Comms	af and half between 100
Architectural Notes WGINEERING HVAC Temp (7c): Summer 230C Temp Tolerance 4 20C VentRation, supply Comfort Cooling Limitality tid	Consultant to advise Consultant to advise Temp (*C): Winter 21oC Temp Yuriation * 2 oC / Hour Yentifiction cabauat General Extract Alf Pressure Negative Airflow	Prainage Special Electrical 230v, trunking	Shelving (non-lab) ar opening of full leaf 800 mm	- Clear opening of less structural Loading - Equipment - Data / AV / Comms Data / AV / Comms Data Data	af and half between 100
Architectural Notes VGINEERING HVAC Temp Tolerance 230C Ventation, usuph Comfort Cooling Humdity tbd da / Fiftration	Acoustic consultant to advise 1200 mm. 2100 mm. Temp (*C): Winter 210C Temp Variation + 20C / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esudement	on Sound Attenuation. * Cle Drainage Special Electrical Fower Supply	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Loading 	af and half between 100
Architectural Notes WGINEERING HVAC Temp Cl: Summer 23cC Temp Clearace 4 2cC VentRation, supply Comfort Cooling Humdiki tbd Air Fittation F7 Supply (80-85%)	Consultant to advise Consultant to advise Temp (*C): Winter 21oC Temp Yuriation * 2 oC / Hour Yentifiction cabauat General Extract Alf Pressure Negative Airflow	con Sound Attenuation. * Cles Drainage Special Electrical Power Supply 230v, trunking Lisential / Slandby Power Lisential / Slandby Power	Shelving (non-lab) ar opening of full leaf 800 mm	- Clear opening of less structural Loading - Equipment - Data / AV / Comms Data / AV / Comms Data Data	af and half between 100
Architectural Notes VGINEERING HVAC Imme Tolerance 230C Ventilation usable Comfort Cooling Humdity tbd Arrithmion PT Supply (80-85%)	Acoustic consultant to advise 1200 mm. 2100 mm. Temp (*C): Winter 210C Temp Variation + 20C / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esudement	Prainage Special Electrical 230v, trunking	Shelving (non-lab) ar opening of full leaf 800 mm	- Cear opening of lease Structural Loading - Esupment - Data / AV / Comms Data / AV / Comms Data / Wireless Digital Projection	af and half between 100
Architectural Notes WGINEERING HVAC Temp Cl: Summer 23cC Temp Clearace 4 2cC VentRation, supply Comfort Cooling Humdiki tbd Air Fittation F7 Supply (80-85%)	Acoustic consultant to advise 1200 mm. 2100 mm. Temp (*C): Winter 210C Temp Variation + 20C / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esudement	con Sound Attenuation. * Cles Drainage Special Electrical Power Supply 230v, trunking Lisential / Slandby Power Lisential / Slandby Power	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Loading 	af and half between 100
Architectural Notes WGINEERING HVAC Teng fCl: Summer 23cC Teng Tolerance 42cC VentRation, supply Comfort Cooling Humidity thd Air Fittation F7 Supply (Pol-S55) Min Air Charges thc Piped Services Water	Acoustic consultant to advise 1200 mm. 2100 mm. Temp (*C): Winter 210C Temp Variation + 20C / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esudement	con Sound Attenuation. * Cles Drainage Special Electrical Power Supply 230y, trunking Essential / Standby Power Edit Interference Lighting	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Loading Equipment Data /AV / Comms Data /AV / Comms Data Data Trojection Trojection	af and half between 100
Architectural Notes VGINEERING HVAC Imm fCr. summer 230C Ventilation, supply Comfort Cooling Humdity tod Arcfittation F7 Supply (80-85%) Mith Air Charges toc Piped Services	Acoustic consultant to advise 1200 mm. 2100 mm. Temp (*C): Winter 210C Temp Variation + 20C / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esudement	on Sound Attenuation. * Cle Drainage Special 	Shelving (non-lab) ar opening of full leaf 800 mm		Vibration Criteria
Architectural Notes WGINEERING HVAC Teng (C). Summer 23aC Teng Toterance 42aC VentRation, supply Comfort Cooling Humidity th d Arr Fitterion F7 Supply (Pol-85%) Min Art Charges thc Piped Services Water Lab CW & HW	Counties consultant to advise Counties consultant to advise Zoo mm. Terms fice: Writter Zoo / Terms Variation t a 2o / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esadement Heat producing - -	e on Sound Attenuation. * Cles prainage Special Electrical Power Supply 230v, trunking Essential / Standby Power Ething Lighting Lighting Lighting Lighting	Shelving (non-lab) ar opening of full leaf 600 mm - - - - - - - - - - - - -	Structural Loading Structural Loading Faujoment Data /AV / Comms Data /AV / Comms Data Wireless Data Wireless Security Screen Security /Life Safety Security /Life Safety Security /Life Safety	af and half between 100
Architectural Notes WGINEERING HVAC Teng fCl: Summer 23cC Teng Tolerance 42cC VentRation, supply Comfort Cooling Humidity thd Air Fittation F7 Supply (Pol-S55) Min Air Charges thc Piped Services Water	Counties consultant to advise Counties consultant to advise Zoo mm. Terms fice: Writter Zoo / Terms Variation t a 2o / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esadement Heat producing - -	on Sound Attenuation. * Cle Drainage Special 	Shelving (non-lab) ar opening of full leaf 800 mm		Vibration Criteria
Architectural Notes WGINEERING HVAC Teng (C). Summer 23aC Teng Toterance 42aC VentRation, supply Comfort Cooling Humidity th d Arr Fitterion F7 Supply (Pol-85%) Min Art Charges thc Piped Services Water Lab CW & HW	Counties consultant to advise Counties consultant to advise Zoo mm. Terms fice: Writter Zoo / Terms Variation t a 2o / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esadement Heat producing - -	e on Sound Attenuation. * Cle Drainage Special Electrical Power Supply 230v, trunking Essential / Standby Power Essential / Standby Power Lighting Lighting Lighting Switching Switching Switched	Shelving (non-lab) ar opening of full leaf 800 mm 	Structural Loading Structural Loading Journemat Journem	Vibration Criteria
Architectural Notes WGINEERING HVAC Teng (C). Summer 23aC Teng Toterance 42aC VentRation, supply Comfort Cooling Humidity th d Arr Fitterion F7 Supply (Pol-85%) Min Art Charges thc Piped Services Water Lab CW & HW	Counties consultant to advise Counties consultant to advise Zoo mm. Terms fice: Writter Zoo / Terms Variation t a 2o / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esadement Heat producing - -	on Sound Attenuation. * Cle Drainage Special Electrical Power Supply 230v, trunking Essential / Standby Power EM Interference Lighting Lighting General Lighting Switching Group Switched Group Switched Group Switched	Shelving (non-lab) ar opening of full leaf 800 mm	Clear opening of lease Structural Loading Exuloment Data /AV / Comms Data /AV / Comms Data Data Digital Projection Projector Security / Life Safety Security Systems Access Control Fire Detection	Vibration Criteria
Architectural Notes VGINCERING HVAC Temp TCI-summer 230C Temp TCI-summer 24 20C Ventilation suspl 20C Comfort Cooling 420C Comfort Cooling 420C Comfort Cooling 420C Prof Services Vater Lab CW & HW L	Counties consultant to advise Counties consultant to advise Zoo mm. Terms fice: Writter Zoo / Terms Variation t a 2o / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esadement Heat producing - -	e on Sound Attenuation. * Cle Drainage Special Electrical Power Supply 230v, trunking Essential / Standby Power Essential / Standby Power Lighting Lighting Lighting Switching Switching Switched	Shelving (non-lab) ar opening of full leaf 800 mm 	Structural Loading Structural Loading Journemat Journem	
Architectural Notes VGINCERING HVAC Temp TCI-summer 230C Temp TCI-summer 24 20C Ventilation suspl 20C Comfort Cooling 420C Comfort Cooling 420C Comfort Cooling 420C Prof Services Vater Lab CW & HW L	Counties consultant to advise Counties consultant to advise Zoo mm. Terms fice: Writter Zoo / Terms Variation t a 2o / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esadement Heat producing - -	on Sound Attenuation. * Cle Drainage Special Electrical Power Supply 230v, trunking Essential / Standby Power EM Interference Lighting Lighting General Lighting Switching Group Switched Group Switched Group Switched	Shelving (non-lab) r opening of full leaf 600 mm	Clear opening of less Structural Loading Eulipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Wireless Data Wireless Data Wireless Data / AV / Comms Data Common / Life Safety Security / Life Safety Access Control Tire Detection Fire Control Exception Exception	
Architectural Notes VGINCERING HVAC Temp TCI-summer 230C Temp TCI-summer 24 20C Ventilation suspl 20C Comfort Cooling 420C Comfort Cooling 420C Comfort Cooling 420C Prof Services Vater Lab CW & HW L	Counties consultant to advise Counties consultant to advise Zoo mm. Terms fice: Writter Zoo / Terms Variation t a 2o / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow Esadement Heat producing - -	on Sound Attenuation. * Cle Drainage Special Electrical Power Supply 230v, trunking Essential / Standby Power EM Interference Lighting Lighting General Lighting Switching Group Switched Group Switched Group Switched	Shelving (non-lab) ar opening of full leaf 800 mm 	Clear opening of lease Structural Loading Evuloment Data / AV / Comms Data / AV / Comms Data Data Data Digital Projection Projector Security / Life Safety Security Systems Access Control Tripe Detection Smoke Detector	Alarm Systems Alarm Systems CCTV CTV

LABORATORY FURNIT	DARY - INSECTARY LA				Room ID:
Lab Benching	Type Bench, Movable	Benchtop Material Trespa Toplab Base -	Depth 750mm	Notes	
Other LF Elements	Above Lab Bench Shelving, wall mtd	<u>-</u>	Other Storage Units Cupboard, tall Adj Shelving	Overbench cupboards	Underbench cabine
Lab Sinks	<u>Sink Type</u> Sink- Epoxy (integral)	Water Source CW Only	Taps Lever Handle (mixer)	Accessories (assume SD, PT Splash Pnl & Dry Rack -	D included)
LABORATORY EQUIPM	1ENT (ASE*)				
	Extract Equipment	Name/Model	* ASE = Architecturally (/Engine Quantity	ering) Significant Equipment * Size	** O = Owner C = Contrai <u>Furnish - Install**</u> - -
	Equipment Incubator	Name/Model BioCold BC49-IN Cham	Quantity ber tbc	Size	Furnish - Install** -

PECIALIST SECOND	ARY - FLY KITCHEN				Room ID:
	Direct Secondary Lab.				Drosophila Suite Second Floor
	Direct Secondary Lab.				Second Floor
NERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	10 nsm	TBC	Full 24 hour use	Compliant	Not Required
Laboratories Only:	Containment ACDP CL2	Fumigation	Safety Risks		
	ACDP CL2	No	Biological/Chem	<u> </u>	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. Note	See arch. Note	Туре	Door + Half Leaf	-
Floors	Туре 1 - 100%	Type 2 - Not Used	Size	1200 mm *	-
Construction	50mm Screed	<u> </u>	Operation	Swinging	-
Floor Finish	Vinyl	<u> </u>	Door Material	Timber- Solid Core	-
Skirting	150mm coved		Door Finish Frame Material	HPL Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	
Construction	Plasterboard & Skim	Glazed Screen	Frame Finish Locks	Swipe card access lock	-
Finish	Paint	-	Closers	Closer	-
Protection	-	-	Vision Pnl	Large	-
			Protection	Kick Plates	-
Ceiling	<u>Type 1 - 100%</u>	Type 2 - Not Used	Seals	-	-
System	Accessible / Sound att.	<u>-</u>	Other	<u> </u>	-
Finish	Metal/Painted				
Features	Washable	<u> </u>	Window Coverings	At Facade	Internal
Height		<u> </u>	Type Light Control	Roller Blinds Anti-Glare/Black-out	-
Accessories (non Lab)	Items	Notes			
Accessories (non-Lab)	Items Cost Hooks	Notes	Operation	Manual Draw	-
Accessories (non-Lab)	Items Coat Hooks	No. tbc			-
Accessories (non-Lab) Architectural Notes	Coat Hooks	No. tbc	Operation	Manual Draw - - Shelf -	- - <u>Notes</u> af and half between 100
Architectural Notes	Coat Hooks Acoustic consultant to advise	No. tbc	Operation Manifestations / Film Shelving (non-lab)	Manual Draw - - Shelf -	
Architectural Notes	Coat Hooks Acoustic consultant to advise	No. tbc	Operation Manifestations / Film Shelving (non-lab)	Manual Draw - <u>Shelf</u> - minimum. Clear opening of le	
Architectural Notes IGINEERING HVAC	Coat Hooks Acoustic consultant to advise 1200 mm.	No. tbc	Operation Manifestations / Film Shelving (non-lab)	Manual Draw Shelf - minimum. Clear opening of le Structural	af and half between 10
Architectural Notes IGINEERING HVAC Temp (² C): Summer	Coat Hooks Acoustic consultant to advise 1200 mm. Temp (°C): Winter	No. tbc	Operation Manifestations / Film Shelving (non-lab)	Manual Draw - <u>Shelf</u> - minimum. Clear opening of le	
Architectural Notes KGINEERING HVAC Temp [*C]: Summer 230C	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab)	Manual Draw	af and half between 10
Architectural Notes IGINEERING HVAC Temp (² C): Summer	Coat Hooks Acoustic consultant to advise 1200 mm. Temp (°C): Winter	No. tbc	Operation Manifestations / Film Shelving (non-lab)	Manual Draw Shelf - minimum. Clear opening of le Structural	af and half between 10
Architectural Notes KGINEERING HVAC Temp (*C): Summer 230C Lenn Tokerance	Coat Hooks Coat Hooks Coat Hooks Coastic consultant to advise Coastic consultant to advise	No. tbc	Operation Manifestations / Film Shelving (non-lab)	Manual Draw	af and half between 10
Architectural Notes HVAC Temp fCL: summer 230C Temp Tokrance ± 20C VentBition, sumpy Comfort Cooling	Coat Hooks - -	No. tbc	Operation Manifestations / Film Shelving (non-lab)	Manual Draw	af and half between 10
Architectural Notes GINFERING HVAC Tenga (C). Summer 236C Tenga (C). Summer 236C Workfalton, supply Comfort Cooling Humidity	Coat Hooks Coat Hooks Coat Hooks Countie consultant to advise Countie consultant to advise Countie consultant to advise Temp 21oC Temp Variation 2 CC / Hour Ventilation exhaut General Extract At Pressore	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Manual Draw	af and half between 10
Architectural Notes KGINEERING HVAC Temp (7c). Summer 230C Temp Ioferation 4 20C VentRation, supply Comfort Cooling Comfort Cooling Humblish thd	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i 	Manual Draw Storet Structural Leading Guide Average Average Structural Leading Leading Data / AV / Comms Data	af and half between 10
Architectural Notes GINEERING HVAC Tann fCr: Summer 230C Vertitation, usable Comfort Cooling Humdity tbd Ar Fitzetion	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Manual Draw Manual Draw Structural Leading Leading Leading Data /AV / Comms Data /AV / Comms Data Mireless	af and half between 10
Architectural Notes KGINEERING HVAC Temp Tol: Summer 23cC Temp Tolerance 4 2cC VestBalan, supply Comfort Cooling Manifoly da Ar Firston F7 Supply (90-855)	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i 	Manual Draw Storet Structural Leading Guide Average Average Structural Leading Leading Data / AV / Comms Data	af and half between 10
Architectural Notes GINEERING HVAC Teng TCI: Jummer 230C Ventation, usaph Comfort Cooling Humidity tbd dar fituration F7 Supply (80-85%) Min Air Charges	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i 	Manual Draw Manual Draw Structural Leading Leading Leading Data /AV / Comms Data /AV / Comms Data Mireless	af and half between 10
Architectural Notes KGINEERING HVAC Temp Tol: Summer 23cC Temp Tolerance 4 2cC VestBalan, supply Comfort Cooling Manifoly da Ar Firston F7 Supply (90-855)	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i 	Manual Draw Manual Draw Structural Leading Leading Leading Data /AV / Comms Data Data Data /AV / Comms Data Data Data Data Data Data Data Dat	af and half between 10
Architectural Notes GINEERING HVAC Temp (Ci: Summer 230C Temp Iofernice 4 20C VeetRation, supply Comfort Cooling Humdis th d Ar Farction F7 Supply (Ro 255N) Min Air Charges thc Piped Services Water	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i 	Manual Draw	af and half between 10
Architectural Notes GINEERING HVAC Immer 230C 24 Comfort Cooling Humdity Dependent	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i 	Manual Draw Manual Draw Structural Loading Full Structural Loading Loading Loading Loading Data /AV / Comms Data /AV / Comms Data /AV / Comms Data /AV / Comms Data Security / Life Safety Security / Life Safety	vibration Criteria
Architectural Notes KGINEERING HVAC Temp Clo: Summer 23cC Temp Tolerance 4 2cC VestBalano, supply Comfort Cooling Humidity	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Manual Draw	af and half between 10
Architectural Notes GINEERING HVAC Temp (Ci: Summer 230C Temp Iofernice 4 20C VeetRation, supply Comfort Cooling Humdis th d Ar Farction F7 Supply (Ro 255N) Min Air Charges thc Piped Services Water	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm in 	Manual Draw Manual Draw Structural Loading Full Structural Loading Loading Loading Loading Data /AV / Comms Data /AV / Comms Data /AV / Comms Data /AV / Comms Data Security / Life Safety Security / Life Safety	vibration Criteria
Architectural Notes KGINEERING HVAC Temp Clo: Summer 23cC Temp Tolerance 4 2cC VestBalano, supply Comfort Cooling Humidity	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Manual Draw Manual Draw	vibration Criteria
Architectural Notes GINEERING HVAC Toms 1C1: Summer 232C Toms 1C1: Summer 24 20C Ventilation sumbr 25 20C 42 20 42 42 42 42 42 4 4 4 4 4 4 4 4 4	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Manual Draw Manual Draw Structural Leading Eulipmenti Data /AV / Comms Data Security / Life Safety Security Systems Access Control Figure Description	Vibration Criteria
Architectural Notes KGINEERING HVAC Temp Clo: Summer 23cC Temp Tolerance 4 2cC VestBalano, supply Comfort Cooling Humidity	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Manual Draw Manual Draw	vibration Criteria
Architectural Notes GINEERING HVAC Toms 1C1: Summer 232C Toms 1C1: Summer 24 20C Ventilation sumbr 25 20C 42 20C 42 42 42 42 42 4 4 4 4 4 4 4 4 4 4 4 4	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm of all	Manual Draw Manual Draw Structural Leading Leading Leading Leading Leading Leading Leading Leading Data /AV / Comms	Vibration Criteria
Architectural Notes GINEERING HVAC Toms 1C1: Summer 232C Toms 1C1: Summer 24 20C Ventilation sumbr 25 20C 42 20C 42 42 42 42 42 4 4 4 4 4 4 4 4 4 4 4 4	Coat Hooks	No. tbc	Operation Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Manual Draw Manual Draw Studt Studt Structural Laading Full Data / AV / Comms Data Control Full Full Full Full Full Full Full Full Full Full Full Full Full Full Full Full Full Full Full Full Full Full Full	drand half between 10 Vibration Criteria - - - Alarm Systems -

ECIALIST SECOND	DARY - FLY KITCHEN				Room ID:
LABORATORY FURNIT	URE				
Lab Benching	Type Bench, Movable	Benchtop Material Trespa Toplab Base	Depth 750mm	Notes	
	-	-	-	-	
Other LF Elements	Above Lab Bench		Other Storage Units		
	Shelving, wall mtd		Cupboard, tall Adj Shelving	Overbench cupboards	Underbench cabine
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PT	D included)
	Sink- Epoxy (integral)	CW Only	Lever Handle (mixer)	Splash Pnl & Dry Rack	
	Wash Hand Basin	CW/HW	Hands-free (sonar)		
LABORATORY EQUIPM	1ENT (ASE*)		Arr Auchieses and Arreste	ering) Significant Equipment *	*0.0
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
					-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Incubator	BioCold BC49-IN Chambe	er tbc		
	<u> </u>				

SPECIALIST SECONDARY - MICROSCOPE ROOM						
					Drosophila Suite	
	Direct Secondary Lab contain	ning microscopes			Second Floor	
NERAL	Nominal Area 12 nsm	Occupants TBC	Hours in Use Extended Hours	Equality Act Compliance Compliant	Natural Light Not Required	
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological		-	
RCHITECTURAL						
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2	
	See arch. Note	See arch. Note	Туре	Door + Half Leaf	-	
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm *	-	
Construction	50mm Screed	-	Operation	Swinging	-	
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-	
Skirting	150mm coved	-	Door Finish	HPL	-	
			Frame Material	Timber	-	
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-	
Construction	Plasterboard & Skim	<u>·</u>	Locks	Swipe card access lock	-	
Finish	Paint	-	Closers	Closer	-	
Protection	<u> </u>	<u>·</u>	Vision Pnl	Small with blinds	-	
			Protection	Kick Plates	-	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	-	
System Finish	Tiles/Plasterb margin	<u>·</u>	Other	<u>·</u>	-	
Finish Features	Metal/Painted Wipeable	<u> </u>	Window Coverings	An Francis	Internet	
Height	wibeapie	<u> </u>	Type	At Façade Blinds	Internal	
rieigin			Light Control	Anti-Glare/Black-out		
Accessories (non-Lab)	Items	Notes	Operation	Manual	-	
		140403		Wallual		
Accessories (non-cab)			Manifestations / Film			
Accessories (non-cab)			Manifestations / Film	<u> </u>	-	
Accessories (non-cab)	<u>.</u>				- Notes	
	- - - Acoustic consultant to advise 1200 mm.	e on Sound Attenuation. * Cle	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm	<u>Shelf</u> <u>-</u> minimum. Clear opening of lea	- <u>Notes</u> af and half between 1000	
Architectural Notes		e on Sound Attenuation. * Cle	Shelving (non-lab)			
Architectural Notes		e on Sound Attenuation. * Cle	Shelving (non-lab)			
Architectural Notes		Drainage	Shelving (non-lab)			
Architectural Notes GINEERING HVAC Temp (² C): Summer	1200 mm.		Shelving (non-lab)	- minimum. Clear opening of le:		
Architectural Notes KGINEERING HVAC Temp [⁷ C]: summer 23oC	1200 mm. <u>Temp (°C): Winter</u> 210C	Drainage	Shelving (non-lab)	 minimum. Clear opening of lea	af and half between 100	
Architectural Notes IGINEERING HVAC Temp f ² C1: summer 230C Temp Tolerance	1200 mm. <u>Temp ^{(°}C): Winter</u> 210C <u>Temp Variation</u>	Drainage HDPE Chem Resist	Shelving (non-lab)		af and half between 100	
Architectural Notes IGINEERING HVAC Temp fCJ: Summer 230C Temp Tolerance ± 20C	1200 mm. <u>Temp (²C): Winter</u> <u>210C</u> <u>Temp Variation</u> ± 20C/Hour	Drainage HDPE Chem Resist 	Shelving (non-lab)		af and half between 100	
Architectural Notes IGINEERING HVAC Temp I ² (2): Summer 230C Temp Tolerance ± 20C Ventilation, supply	1200 mm. Temp (°C): Winter 21oC Temp Variation ± 20C / Hour Ventilation, exhaust	Drainage HDPE Chem Resist 	Shelving (non-lab)	Clear opening of les Structural Loading Cuipment Vibration sensitive	af and half between 100	
Architectural Notes HVAC Temp [CL: summer 230C Temp Tokrance + 20C Ventilation, supply Confort Cooling	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 20C / Hour Ventilation, exhaust General Extract	Drainage HDPE Chem Resist 	Shelving (non-lab)	structural Leading Eulipment Vibration sensitive Data / AV / Comms	af and half between 100	
Architectural Notes HINEERING HVAC Temp f CL: Summer 230C Temp J Charance ± 20C Yentlation, supply Comfort Cooling Humsdity	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, exhaust General Extract Air Pressure	Drainage HDPE Chem Resist 	Shelving (non-lab)	Structural Loading <u>fully</u> <u>fully</u> <u>thation sensitive</u> Data / AV / Comms Data / AV / Comms	af and half between 100	
Architectural Notes KGINEERING HVAC Temp Clc. Summer 23cC Temp Clearate 4 2cC VestBalan, supply Confort Cooling Humbly Controlled	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HDPE Chem Resist = Electrical Power Supply 230y, trunking =	Shelving (non-lab) ar opening of full leaf 800 mm - - - - - -	Clear opening of les Structural Loading Couloment Wharation sensitive Data / AV / Comms Data	af and half between 100	
Architectural Notes GINEERING HVAC Tang fCr: Summer 23oC Ventation, usayb Comfort Cooling Humidia Controlled Arc Franciss	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, exhaust General Extract Air Pressure	Drainage HDPE Chem Resist 	Shelving (non-lab)	Structural Loading Guipment Vibration sensitive Data / AV / Comms Data / AV / Comms Data / AV / Wireless	af and half between 100	
Architectural Notes KGINEERING HVAC Temp 101: Summer 230C Temp 101erance 4 20C VestBalan, supply Confort Cooling Humblis Controlled Ar Farction F7 Supply (80-85%)	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Essential / Standby Power 	Shelving (non-lab) ar opening of full leaf 800 mm - - - - - -	Clear opening of les Structural Loading Couloment Wharation sensitive Data / AV / Comms Data	af and half between 100	
Architectural Notes GINEERING HVAC Tang fCr: Summer 23oC Ventation, usayb Comfort Cooling Humidia Controlled Arc Franciss	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HDPE Chem Resist = Electrical Power Supply 230y, trunking =	Shelving (non-lab) ar opening of full leaf 800 mm - - - - - -	Structural Leading Superstand	af and half between 100	
Architectural Notes KGINEERING HVAC Tenn Tolerand 23cC Ventilation, suphr 42oC Ventilation, suphr 42oC Control Cooling Humdiss Controlled Arc Transion F7 Supply (80-85%) Min ArC Charges - Ppded Services	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HDPE Chem Resist 	Shelving (non-lab) ar opening of full leaf 800 mm - - - - - -	Structural Loading Guipment Vibration sensitive Data / AV / Comms Data / AV / Comms Data / AV / Wireless	af and half between 100	
Architectural Notes WGINEERING HVAC Temp Ci: Summer 23cC Temp Cie: Summer 23cC Comfort Cooling Humdist Comfort Cooling Humdist Controlled Air Fittation F7 Supply (96-85%) Min Air Charges Piped Services Water	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HDPE Chem Resist Electrical Power Sogady 230v, trunking Esemial / Standby Power EdulaterFerence EdulaterFerence Ughting	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Loadrog Structural Loadrog Turbural Loadrog Turburation Structural Loadrog Turburation Structural Loadrog Turburation Structural Loadrog Structural	af and half between 1000	
Architectural Notes KGINEERING HVAC Tenn Tolerand 23cC Ventilation, suphr 42oC Ventilation, suphr 42oC Control Cooling Humdiss Controlled Arc Transion F7 Supply (80-85%) Min ArC Charges - Ppded Services	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HDPE Chem Resist - Electrical Prover Suitadiv 230V, trunking - Essential / Standby Power - Ell Interference - Ughting Lubiting	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Lading Superstanding Security / Life Safety	Vibration Criteria	
Architectural Notes KGINEERING HVAC Temp (7c) Summer 23cC Temp Toterance 42cC VentBalanc, supply Confort Cooling Humidity Lob CW & HW	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HDPE Chem Resist Electrical Power Supply 230, trunking Esemial / Standby Power Edu Interference Edu Interference Ughting Lubbing Concert Lighting	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Loadrog Structural Loadrog Turbural Loadrog Turburation Structural Loadrog Turburation Structural Loadrog Turburation Structural Loadrog Structural	af and half between 100	
Architectural Notes KGINEERING HVAC Temp (7L: Summer 23cC Temp Tolerance 4 2cC VestBalan, supply Control Include Ar Factors F7 Supply (10-855N) Min Air Charges Piped Services Water	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HOPE Chem Resist Electrical Electrical Saloy, transfer Essential / Standby Power Essential / Standby Power Uighting Uighting Searchillighting Sauchlighting	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Lading Support Comparison Support Supp	Vibration Criteria	
Architectural Notes KGINEERING HVAC Temp (7c) Summer 23cC Temp Toterance 42cC VentBalanc, supply Confort Cooling Humidity Lob CW & HW	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HDPE Chem Resist = Iectrical Power Soughy 230v, trunking = Iectrical Standby Power = Iectrical Standby Power = Ielental / Ielental / Ielental Ielental / Ielental / I	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Loading Structural Loading Tructural Loading Tructural Loading Tructural Loading Tructural Loading Tructural Loading Tructural Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Tructural Data Tructural Security Systems Security Life Safety Security Life Safety Security Systems Tructural	Vibration Criteria	
Architectural Notes GINFERING HVAC Temp Tolesumer 232C Temp Tolesumer 232C Temp Tolesumer 232C Control Cooling 420C Control Cooling 420C Control Cooling 420C Controled 420Fittation F7 Supply (80-85%) Min Ar Charges - Piped Services Water	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HOPE Chem Resist Electrical Power Sugaly 230v, trunking Essential / Standay Power Estimate / Standay Power Uphting Lighting Sanday David Standay Power Statistics Single Control Other Lighting	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Leading Substructural Leading Substructural Leading Substructural Leading Substructural Substructural Substructural Substructural Substructural Security Colores Security Life Safety Security Life Safety Security Life Safety Security Colores Security Co	Vibration Criteria	
Architectural Notes KGINEERING HVAC Temp (7c) Summer 23cC Temp Toterance 42cC VentBalanc, supply Confort Cooling Humidity Lob CW & HW	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HDPE Chem Resist = Iectrical Power Soughy 230v, trunking = Iectrical Standby Power = Iectrical Standby Power = Ielental / Ielental / Ielental Ielental / Ielental / I	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Loading Structural Loading Tructural Loading Tructural Loading Tructural Loading Tructural Loading Tructural Loading Tructural Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Tructural Data Tructural Security Systems Security Life Safety Security Life Safety Security Systems Tructural	Vibration Criteria	
Architectural Notes GINFERING HVAC Temp Tolesumer 232C Temp Tolesumer 232C Temp Tolesumer 232C Control Cooling 420C Control Cooling 420C Control Cooling 420C Controled 420Fittation F7 Supply (80-85%) Min Ar Charges - Piped Services Water	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HOPE Chem Resist Electrical Power Sugaly 230v, trunking Essential / Standay Power Estimate / Standay Power Uphting Lighting Sanday David Standay Power Statistics Single Control Other Lighting	Shelving (non-lab) ar opening of full leaf 800 mm ar opening of full leaf 800 mm	Structural Laading Euglignent Wibration sensitive Data /AV (comms Data/AV (comms	Line Systems L	
Architectural Notes GINFERING HVAC Temp Tolesumer 232C Temp Tolesumer 232C Temp Tolesumer 232C Control Cooling 420C Control Cooling 420C Control Cooling 420C Controled 420Fittation F7 Supply (80-85%) Min Ar Charges - Piped Services Water	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage HOPE Chem Resist Electrical Power Sugaly 230v, trunking Essential / Standay Power Estimate / Standay Power Uphting Lighting Sanday David Standay Power Statistics Single Control Other Lighting	Shelving (non-lab) ar opening of full leaf 800 mm	Structural Leading Euglignenti Wibration sensitive Data /AV (comms Data Data /AV	Vibration Criteria	

ECIALIST SECONE	DARY - MICROSCOPE	ROOM			Room ID:
LABORATORY FURNIT	URE				
Lab Benching	Type Bench, Movable -	Benchtop Material Trespa Toplab Base -	<u>Depth</u> 750mm -	Notes	
Other LF Elements	Above Lab Bench Shelving, wall mtd -	Cabinets, wall mtd	Other Storage Units Cupboard, tall -	Underbench cabinets	
Lab Sinks	Sink Type Wash Hand Basin	Water Source CW / HW	Taps Hands-free (sonar) -	Accessories (assume SD, PT Splash Pnl & Dry Rack	D included)
LABORATORY EQUIPN	1ENT (ASE*)				
	Extract Equipment - -	Name/Model	* ASE = Architecturally (/Engin Quantity	eering) Significant Equipment	** O = Owner C = Contra Furnish - Install** - -
	Equipment Microscope	Name/Model	Quantity No. units tbc	Size	Furnish - Install** -

	ARY - QUARANTINE				Room ID:
	0'-1	ccessed from Insectary techni			Drosophila Suite Second Floor
	biological Quarantine area a	coessed from insectary techni	cal corridor		Second Floor
NERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	11 nsm	TBC	Full 24 hour use	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
caboratories only.	ACDP CL2	No	Biological		-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA) See arch, Note	Mechanical Noise (NR) See arch. Note	Doors	Type 1 Door + Half Leaf	Type 2
Floors	Type 1 - 100%	Type 2 - Not Used	Type Size	1200 mm *	-
Construction	50mm Screed	Type 2 - Not Used	Operation	Swinging	
Floor Finish	Vinyl		Door Material	Timber- Solid Core	-
Skirting	150mm coved	-	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Plasterboard & Skim	<u> </u>	Locks	Access Ctrl + Lock	-
Finish Protection	Paint	<u> </u>	Closers Vision Pnl	Closer	
Protection		<u> </u>	Protection	Large Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	-	-
System	Accessible / Sound att.	-	Other		-
Finish	Metal/Painted	-			-
Features	Washable	-	Window Coverings	At Façade	Internal
Height	-	<u> </u>	Туре	<u>·</u>	-
			Light Control	<u> </u>	-
Accessories (non-Lab)	Items	Notes	Operation Manifestations / Film	<u>.</u>	-
			Manifestations / Film	<u> </u>	-
			Shelving (non-lab)	Shelf	Notes
	-		a		
Architectural Notes	1200 mm.				
	1200 mm.				
IGINEERING	1200 mm.	Drainage		Structural	
IGINEERING	Temp (°C): Winter	Drainage HDPE Chern Resist	-		Vibration Criteria
IGINEERING HVAC Temp ([°] C): Summer 23oC	Temp (² C): Winter 210C		<u>-</u>	Structural Loading	
IGINEERING HVAC Temp (°C): Summer 230C Temp Tolerance	Temp (°C): Winter 21oC Temp Variation	HDPE Chem Resist	<u>-</u>	Structural	
IGINEERING HVAC 23oC Temp Tolerance ± 2oC	Temp (°C): Winter 210C Temp Variation ± 20C / Hour	HDPE Chem Resist	<u>.</u>	Structural Loading	
IGINEERING HVAC Temp (°C): Summer 23oC Temp Tolerance ± 2oC Ventilation, supply	Temp (² C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, exhaust	HDPE Chem Resist Electrical Power Supply		Structural Loading Equipment	
IGINEERING HVAC 23oC Temp Tolerance ± 2oC	Temp (°C): Winter 210C Temp Variation ± 20C / Hour	HDPE Chem Resist		Structural Loading	
IGINEERING HVAC 23oC Iemp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity Controlled	Temp (*C): Winter 21oC Temp Variation ± 2oC / Hour Vermitation, exhaust General & Dedicated Air Pressure tob	HDPE Chem Resist		Structural Loading - - Equipment - Data / AV / Comms	
IGINEERING HVAC Temp (°C): Summer 230C Temp Tolerance ± 20C Ventilation, supply Confort Cooling Humdity Controlled Air filtration	Temp C: Woter 21oC Temp Valiation ± 2oC / Hour Ventilation, eshauit General & Dedicated Air Pressien tbd Eculorment	HDPE Chem Resist	- 	Structural Lading - Eulpment - Data / AV / Comms Data / AV / Comms - -	
GINEERING HVAC C: Summer 23oC Temp Tolerance ± 2oC Yentlästion, supply Confort Cooling Humidity Controlled Air Filtation F1 Supply (80-85%) F1 Supply (80-85%)	Temp (*C): Winter 21oC Temp Variation ± 2oC / Hour Vermitation, exhaust General & Dedicated Air Pressure tob	HDPE Chem Resist		Structural Loading - - Equipment - Data / AV / Comms	
GINEERING HVAC Temp f°C1: Summer 23oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity Controlled Air filtration F7 Supply (80-85%) Min Air Charges	Temp C: Woter 21oC Temp Valiation ± 2oC / Hour Ventilation, eshauit General & Dedicated Air Pressien tbd Eculorment	HDPE Chem Resist	- 	Structural Loading - - Data / AV / Comms Data / AV / Comms Data / AV / Comms - - Digital Projection	
AGINEERING HVAC Temp Cfc: Summer 230C Temp Tolerance ± 20C Ventilation, supply Confront Cooling Humidity Controlled Air Filtration F3 Supply (80-83%) Min.Air Changes tbd	Temp C: Woter 21oC Temp Valiation ± 2oC / Hour Ventilation, eshauit General & Dedicated Air Pressien tbd Eculorment	HDPE Chem Resist Electrical Power Supply 230v, trunking Essential / Standby Power		Structural Lading - Eulpment - Data / AV / Comms Data / AV / Comms - -	
GINEERING HVAC Temp f°C1: Summer 23oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity Controlled Air filtration F7 Supply (80-85%) Min Air Charges	Temp C: Woter 21oC Temp Valiation ± 2oC / Hour Ventilation, eshauit General & Dedicated Air Pressien tbd Eculorment	HDPE Chem Resist Electrical Power Supply 230v, trunking Essential / Standby Power	- 	Structural Loading - - Data / AV / Comms Data / AV / Comms Data / AV / Comms - - Digital Projection	Vibration Criteria
IdinEERING HVAC Temp CC: Summer 23oC Temp Totrance ± 2oC Venitation, supply Comfort Cooling Humidity Controlled Air Filtration Air Filtration Min Air Changes tbd Piped Services	Temp C: Woter 21oC Temp Valiation ± 2oC / Hour Ventilation, eshauit General & Dedicated Air Pressien tbd Eculorment	HDPE Chem Resist		Structural Loading - - Data / AV / Comms Data / AV / Comms Data / AV / Comms - - Digital Projection	
GINEERING HVAC Image Col: Summer 236C Section 236C Section 236C Section 236C Controlled All Fittation 75 Supply (196-255) Min Air Charles tod Piped Services Water Lab CW & HW	Temp C: Woter 21oC Temp Valiation ± 2oC / Hour Ventilation, eshauit General & Dedicated Air Pressien tbd Eculorment	HDPE Chem Resist Electrical Power Supply 230v, trunking Electrical Standby Power Estimate / Standby Power Lighting Lighting Lighting Lighting	- - - - - - - - - - - - - - - - - - -	Structural Loading Exwioment Data / AV / Comms Data / AV / Comms Security / Ule Safety Security / Ule Safety	
GINEERING HVAC Temp[C1:Summer] 23cC Temp[C2:Summer] 23cC Verifiation, supply Comfort Cooling Humidity Controlled Ar Fittation F7 Supply (80-85%) Min Ar Changes thd Piped Services Value: Lab CW & HW Eab CWA Services	Temp (C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, exhauit General & Dedicated Air Pressing tbd Eculoment	HDPE Chem Resist Electrical Example Supply 230v, trunking 230v, trunking Essential / Standby Power Essential / Standby Pow	- - - - - - - - - - - - - - - - - - -	Structural Loading = = puiptinent = Data / AV / Comms Data / AV / Comms Data / AV / Comms Digital AV / Comms Projection Projection Screen Security / Life Safety	Vibration Criteria - - -
KGINEERING HVAC Trans (CL. Summer 236C Sectors (CL. Summer 236C Sectors (CL. Summer 236C Sectors (CL. Summer 236C Sectors (SL. Summer 236C Sectors	Temp (C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, exhauit General & Dedicated Air Pressing tbd Eculoment	HDPE Chem Resist Electrical Power Supply 230v, trunking 230v, trunking Essential / Standby Power Minterference Ughting Lighting General Lighting Switching	- - - 500 Lux <u>Petection</u> Presence Detection	Structural Leading	Vibration Criteria - - -
GINEERING HVAC Transf Cf. Summer 23cC Transf Tof Target Cf. Summer 24 20C Control Cooling thumSity Controlled Ar Fittation fr Supply (80-85%) thd Piped Services Water Lab CW & HW Lab CW & HW Eads Controlled MSS. reg's tbc	Temp (C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, exhauit General & Dedicated Air Pressing tbd Eculoment	HOPE Chem Resist Electrical Power Soday 2300, trunking Soday 2300, trunking Essential / Standby Power Essential / Standby Power Lighting General Lighting Statching Single Control Other Lighting	- - - - - - - - - - - - - - - - - - -	Structural Loading Eaujunenti Data / AV / Comms Data / AV / AV / AV / Comms Data / AV / A	Vibration Criteria
KGINEERING HVAC Temp [C1: Summer] 230C Temp [C1: Summer] 24 Control Cooling biumishy Controlled Arr Fittation F7 Supply (80-85%) thd Piped Services Water Lab CW & HW E E E E E E E E E E E E E E E E E E E	Temp (C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, exhauit General & Dedicated Air Pressing tbd Eculoment	HDPE Chem Resist Electrical Power Supply 230v, trunking 230v, trunking Essential / Standby Power Minterference Ughting Lighting General Lighting Switching		Structural Leading	Vibration Criteria - - -
GINEERING HVAC Transf Cf. Summer 23cC Transf Tof Target Cf. Summer 24 20C Control Cooling thumSity Controlled Ar Fittation fr Supply (80-85%) thd Piped Services Water Lab CW & HW Lab CW & HW Eads Controlled MSS. reg's tbc	Temp (C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, exhauit General & Dedicated Air Pressing tbd Eculoment	HOPE Chem Resist Electrical Power Soday 2300, trunking Soday 2300, trunking Essential / Standby Power Essential / Standby Power Lighting General Lighting Statching Single Control Other Lighting	Lux Levels 500 Lux Detection Presence Detection Ballast Type - Emergency Ltg	Structural Leading Exclusioned Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Security / Life Safety Security Systems Access Control - Freihestens Sanche Detector	Vibration Criteria Alarm Systems
GINEERING HVAC Transf Cf. Summer 23cC Transf Tof Target Cf. Summer 24 20C Control Cooling thumSity Controlled Ar Fittation fr Supply (80-85%) thd Piped Services Water Lab CW & HW Lab CW & HW Eads Controlled MSS. reg's tbc	Temp (C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, exhauit General & Dedicated Air Pressing tbd Eculoment	HOPE Chem Resist Electrical Power Soday 2300, trunking Soday 2300, trunking Essential / Standby Power Essential / Standby Power Lighting General Lighting Statching Single Control Other Lighting		Structural Loading Eaujunenti — Data / AV / Comms Bata / AV / Comms Bata / AV / Comms Data / AV / Comms Data / AV / Comms Statu / AV / Comms Data / AV / Comms Statu / AV / Comms Data / AV / Comms Statu / AV / Comms Data / AV / Comms Data / AV / Comms Statu / AV / Comms Data / AV /	Vibration Criteria

-				Room ID:
Type Bench, Movable	Benchtop Material Trespa Toplab Base	Depth 750mm	Notes	
Above Lab Bench Shelving, wall mtd	Cabinets, wall mtd	Other Storage Units Cupboard, tall	Underbench cabinets	
Sink Type Wash Hand Basin	Water Source CW / HW	<u>Taps</u> Hands-free (sonar)		TD included)
1ENT (ASE*)			-	
		* ASE = Architecturally (/Engine		
Extract Equipment MBSC (Class 2)	Name/Model	Quantity	<u>Size</u>	Eurnish - Install** - -
Equipment Autoclave	<u>Name/Model</u> (requirement tbc)	Quantity	Size	Furnish - Install**
	JRE	Type Benchtop Material Bench, Movable Trespa Toplab Base Ahore Lab Bench - Shelving, wall mtd Cabinets, wall mtd Sink Type Water Source Wash Hand Basin CW / HW EENT (ASE*) - Etract Equipment Name/Model MSSC (Class 2) - Equipment Name/Model	JRE Tage Benchtop Material Desth Bench, Movable Trespa Toplab Base 75mm Above Lab Bench Other Storace Units Other Storace Units Shelving, wall mtd Cabinets, wall mtd Cupboard, tall Sink Tupe Water Source Tags Wash Hand Basin CW / HW Hands-free (sonar) Extra: Easignment Name/Addel Quantity.	JRE Just Benchnon Material Death Nater. Bench, Movable Trespa Toplab Base 750mm 1 Above Lab Bench Other Storage Units 0 1 Shelving, wall mtd Cabinets, wall mtd Cubber Storage Units 1 Sink Tuge Water Source Tasc Accessories Lassume SD, P. Wash Hand Basin CW / HW Hands-free (sonar) Accessories Lassume SD, P. Extract Equipment Name/Model Quantity Size Estignment Name/Model Quantity Size

PECIALIST SECOND	ARY - BEHAVIOURAL	ROOM			Room ID:
					Drosophila Suite
	Direct Secondary Lab access	ed via Insectary Lab			Second Floor
ENERAL	Nominal Area 9 nsm	Occupants TBC	Hours in Use Extended Hours	Equality Act Compliance Compliant	Natural Light Not Required
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological	Noise	
	ACOT CLL	110	biological	Noise	
RCHITECTURAL Sound Attenuation			Doors		
Sound Attenuation	Intern Ambient Noise (dBA) See arch. Note	Mechanical Noise (NR) See arch. Note	Type	Type 1 Door + Half Leaf	Type 2
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm *	
Construction	50mm Screed	Type 2 - Not Osed	Operation	Swinging	
Floor Finish	Vinyl	<u> </u>	Door Material	Timber- Solid Core	
Skirting	150mm coved	<u> </u>	Door Finish	HPI	
SKILUIG	20011111 COVED		Erame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	
Construction	Plasterboard & Skim	THE Z - NOL USED	Frame Finish Locks	Swipe card access lock	-
Construction	Plasterboard & Skim Paint	<u> </u>	Closers		-
Protection	Pallit	<u> </u>	Closers Vision Pnl	Closer Large	-
Protection		<u> </u>	Vision Pnl Protection	Large Kick Plates	-
	7	Tree 2. Not lived		NICK Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	-	-
System	Tiles/Plasterb margin		Other		-
Finish	Metal/Painted	<u> </u>			
Features	Wipeable	<u> </u>	Window Coverings	At Facade	Internal
Height	-	-	Туре	Blinds	-
			Light Control	Anti-Glare/Black-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
				-	-
			Manifestations / Film	-	
	-				
	-		Shelving (non-lab)	Shelf	Notes
Architectural Notes	- - Acoustic consultant to advise 1200 mm.	e on Sound Attenuation. * Cle		<u>Shelf</u>	
IGINEERING			Shelving (non-lab)	<u>Shelf</u> - minimum. Clear opening of le	
IGINEERING HVAC	1200 mm.	Drainage	Shelving (non-lab)	Shelf - minimum. Clear opening of le Structural	af and half between 100
IGINEERING HVAC Temp (°C): Summer	1200 mm.		Shelving (non-lab)	<u>Shelf</u> - minimum. Clear opening of le	
HGINEERING HVAC Temp (°C): Summer 23oC	1200 mm. <u>Temp (°C): Winter</u> 210C	Drainage	Shelving (non-lab)	Shelf 	af and half between 100
IGINEERING HVAC Temp (°C): Summer 230C Temp Tolerance	1200 mm. <u>Temp (°C): Winter</u> 210C <u>Temp Variation</u>	Drainage Foul (normal) -	Shelving (non-lab)	Shelf - minimum. Clear opening of le Structural	af and half between 100
IGINEERING HVAC Temp (C): Summer 23oC Temp Tolerance ± 2oC	1200 mm. <u>Temp (²C): Winter</u> <u>210C</u> <u>Temp Variation</u> ± 20C / Hour	Drainage Foul (normal) - Electrical	Shelving (non-lab)	Shelf 	af and half between 100
GINEERING HVAC Temp (°C): Summer 23oC Temp Tolerance ± 2oC Ventilation, supply	1200 mm. Temp (°C): Winter 21oC Temp Variation ± 20C / Hour Ventilation, exhaust	Drainage Foul (normal) - Electrical Power Supply	Shelving (non-lab)	Shelf	af and half between 100
IGINEERING HVAC Temp (°C): Summer 23oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 20C / Hour Ventilation, exhaust General Extract	Drainage Foul (normal) - Electrical	Shelving (non-lab)	Structural Loading Structural Louging Suppress Supp	af and half between 100
HVAC Temp (°C): Summer 230C Temp Tolerance + 20C Ventilation, supply Comfort Cooling Humidity	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, eshauit General Extract Air Pressure	Drainage Foul (normal) - Electrical Power Supply	Shelving (non-lab)	Shelf Structural Loading - Guigment - Data / AV / Comms Data / AV / Comms	af and half between 100
ISINEERING HVAC 23oC Temp Tolerance ± 2oC Yentiation, supply Comfort Cooling Humidity Controlled	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) 	Shelving (non-lab) ar opening of full leaf 800 mm - - - - - - - - -	Shelf Structural Leading Equipment Equipment Data / AV / Comms Data	af and half between 100
GINEERING HVAC 230C Temp f/CL: Summer 230C Temp Tolerance 4 20C Ventilation, supply Control Cooling Humidity Controlled Air filtration	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC / Hour Ventilation, eshauit General Extract Air Pressure	Drainage Foul (normal) - Electrical Power Supply	Shelving (non-lab)	Shelf Structural Leading Structural Leading Leading Data /AV / Comms Data /W / Comms Data Wireless	af and half between 100
IGINEERING HVAC Temp fcb: Summer 230C Temp Tolerance 4 20C Ventilation, supply Confort Cooling Humidity Controlled Air Fitration F7 Supply (80-85%)	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) Electrical Power Supply 230v, trunking Essential / Standby Power	Shelving (non-lab) ar opening of full leaf 800 mm - - - - - - - - -	Shelf Structural Leading Equipment Equipment Data / AV / Comms Data	af and half between 100
GINEERING HVAC 230C Temp f/CL: Summer 230C Temp Tolerance 4 20C Ventilation, supply Control Cooling Humidity Controlled Air filtration	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) 	Shelving (non-lab) ar opening of full leaf 800 mm - - - - - - - - -	Shelf Structural Leading Structural Leading Leading Data /AV / Comms Data /AV / Comms Data /AV / Comms Data /AV / Comms Data Data /A	af and half between 100
IGINEERING HVAC Temp fcb: Summer 230C Uentilation, supply Confort Cooling Humidity Controlled Air filtration F3 Supply (80-83%) Min.Air Changes	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) Electrical Power Supply 230v, trunking Essential / Standby Power	Shelving (non-lab) ar opening of full leaf 800 mm - - - - - - - - -	Shelf Structural Leading Structural Leading Leading Data /AV / Comms Data /W / Comms Data Wireless	af and half between 100
GINEERING HVAC Emp Tots Summer 230C Emp Toterance ± 20C Ventilation, supply Controlled Air Fitration F7 Supply (80-85%) MinAir Charges - Piped Services	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) 	Shelving (non-lab) ar opening of full leaf 800 mm - - - - - - - - -	Shelf Structural Leading Structural Leading Leading Data /AV / Comms Data /AV / Comms Data /AV / Comms Data /AV / Comms Data Data /A	af and half between 100
KGINEERING HVAC Temp [C]: Summer 330C Temp [Obtance 4 metallation, surply Comfort Controlled Air Fitration F7 Surply (80-85%) Min Air Changes 	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) = Electrical Power Supply 230v, trunking = Esential / Standby Power Est Interference = Utghting	Shelving (non-lab) ar opening of full leaf 600 mm	Shelf Structural Loading Structural Loading Structural Loading Subar Avy Comms Data /AV / Comms Data Wireles Data Protection	af and half between 100
GINEERING HVAC Emp Tots Summer 230C Emp Toterance ± 20C Ventilation, supply Controlled Air Fitration F7 Supply (80-85%) MinAir Charges - Piped Services	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) - Electrical Prever Supply 230y, trunking - seential / Standby Power - Ell Interference - Ughting Libbing	Shelving (non-lab) ar opening of full leaf 800 mm	Shelf Structural Lading	af and half between 100
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KGINEERING HVAC Temp [C]: Summer 330C Temp [Obtance 4 metallation, surply Comfort Controlled Air Fitration F7 Surply (80-85%) Min Air Changes 	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) 	Shelving (non-lab) ar opening of full leaf 800 mm	Shelf Structural Lading	af and half between 100
KGINEERING HVAC Timpin (CL. Summer 230C 1000 (SL. Summer 2000) 1000 (SL. Summer 2000) 1000 (SL. Summer 2000) 1000 (SL. Summer 1000 (SL. Summer	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) = Electrical Power Sough? 230v, trunking = Esemial / Standby Power Esemial / Standby Power Esemial / Standby Power Upthing Upthing Switching Smith or Source I	Shelving (non-lab) ar opening of full leaf 800 mm 	Shelf Structural Leading Structural Leading Structural Leading Exclument Data /AV / Comms Data /AV / Comms Data Wireles Data Structura Structura Common Comm	af and half between 100
KGINEERING HVAC Temp [C1: Summer 230C Temp [C1: Summer 230C Temp [C1: Summer 2 20C Vestitation, supply Controlled At / Filtration F7 Supply (80-85%) F7 Supply (80-85%) F7 Supply (80-85%) Hm Air Changes Hm Air Changes	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) Electrical Power Soudy Saloy, transing Essential / Sanday Power Lighting Utiphing Sanday Down Sanday Southang Sanday Control Other Lighting Sanday Control Other Lighting	Shelving (non-lab) ar opening of full leaf 800 mm	Shelf Structural Lading	af and half between 100 Vibration Criteria Alarm Systems
KGINEERING HVAC Timpin (CL. Summer 230C 1000 (SL. Summer 2000) 2000 (SL. Summer 2000 (SL. Summer 2000) 2000 (SL. Summer 2000 (SL	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) = Electrical Power Sough? 230v, trunking = Esemial / Standby Power Esemial / Standby Power Esemial / Standby Power Upthing Upthing Switching Smith or Source I	Shelving (non-lab) ar opening of full leaf 800 mm	Shelf Structural Leading Structural Leading Structural Leading Structural Leading Structural Data /AV / Comms Data /AV / Comms Data /AV / Comms Data Structural Common Com	af and half between 100
KGINEERING HVAC Temp [C1: Summer 230C Temp [C1: Summer 230C Temp [C1: Summer 2 20C Vestitation, supply Controlled At / Filtration F7 Supply (80-85%) F7 Supply (80-85%) F7 Supply (80-85%) Hm Air Changes Hm Air Changes	1200 mm. Temp (*C): Winter 21oC Temp Variation ± 2oC (Hour General Extract Air Pressure Negative Airflow	Drainage Foul (normal) Electrical Power Soudy Saloy, transing Essential / Sanday Power Lighting Utiphing Sanday Down Sanday Southang Sanday Control Other Lighting Sanday Control Other Lighting	Shelving (non-lab) ar opening of full leaf 800 mm	Shelf Structural Leading Structural Leading Le	af and half between 100 Vibration Criteria
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LABORATORY FURNIT	DARY - BEHAVIOURAL	ROOIVI			Room ID:
Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Movable	Trespa Toplab Base	750mm		
	-	-	-		
Other LF Elements	Above Lab Bench		Other Storage Units		
	Shelving, wall mtd	Shelving, wall mtd	Cabinets, wall mtd	Cupboard, tall	Underbench cabinet
	-	-	-		-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD. F	TD included)
	Sink- Epoxy (integral)	CW Only	Lever Handle (mixer)	Splash Pnl & Dry Rack	-
	Wash Hand Basin	CW / HW	Hands-free (sonar)	-	
LABORATORY EQUIPM	IENT (ASE*)				
			* ASE = Architecturally (/Engine	ering) Significant Equipment	** O = Owner C = Contrac
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	-				-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				
	-				-

EXISTING

The current In-Vitro facilities are in four rooms on two levels (3 and 5) within the CRB, occupying approximately 100sqm.

The brief requested 230 sqm for confocal, live cell imaging, super resolution (SR) and single molecule (SM) microscopes. The live cell imaging uses confocal microscopes and as such have the same working footprint as the confocal imaging's workstations. The brief requested an additional 40sqm for 4 more future microscopes in addition to the 11 identified.

Initially, the Users highlighted that SM imaging may require more space as Sno existing microscopes were missing from the original briefing document, however, when reviewing the latest layouts, the need for expansion space provisions was noted, but the deficit was not; further discussions between the Users and LMS are needed.

The SR and SM microscopes utilise optical tables which may be as large as 1.2m x 2.4m; consideration to manoeuvre these into the building is required as they cannot be broken down into smaller components. The minimum clearances for these rooms, using the larger optical tables, may require up to 25sqm each, rather than the requested 20sqm. These rooms will use lasers, so door access controls, door interlock systems and laser safety provisions are required. These are typically provided via a third-party specifier and installer (e.g. Lasermet).

There are three staff who manage In-Vivo Imaging. It was noted that the Genetics Groups, Bioinformaticians and Worm Groups don't generally require access and could be located on 'non-in-vitro' floors in the new proposal.

PROPOSED

Due to the size of the In-Vitro Suite it has been distributed across 3 adjacent floors with a floor each for: confocal, live cell and SR/SM; the users were satisfied with this proposal. The SM may become a single room with curtains or flexible wall to increase flexibility with optical table sizes and positions and quantity of microscoes.

Although they both use confocal microscopes, the Confocal suite has higher control requirements than Live Cell suite; hence their distinction.

All In-Vitro suites have been located on the upper science floors, and stacked, for servicing and space utilisation reasons, particularly as a ventilation riser (to the roof plant) is required to service the in-vitro floors.

Within the Confocal and Live Cell suites, curtains will separate microscope stations to allow re-arrangement, however, ventilation capacities and service provisions are limited to the proposed allocation.

Regarding the potential to expand Live Cell, a 30sqm equipment room is located opposite and could be used for 3 additional stations (accepting the further loss of under-sized equipment space). Further discussions are required with LMS to determine priorities.

Write-up areas within the suite are not needed, however the users have requested 4 dedicated computer workstations for researchers to access; ideally, these are located near, but separate from, the in-vivo staff's desks. They have asked for one staff desk to be enclosed for concentrated working.

TECHNICAL HUBS IN-VITRO IMAGING - CONFOCAL



PROPOSED PLAN - CONFOCAL SUITE (LEVEL 5)





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ROOM CRITERIA SHE	C1				
Confocal Imaging					
	Laboratory for confocal images required.	ging - environmental requirem	ents are similar to SR Imaging.	Further development	In-Vitro Imaging
	required.				Fifth Floor
SENERAL	Nominal Area	Occupants	Hours in Use		
GENERAL	63 nsm	Occupants	Extended Hours	Equality Act Compliance Compliant	Natural Light Not Required
Laboratories Only:	Containment ACDP CL2	Fumigation No	<u>Safety Risks</u> Biological/Chem	Radiation	Laser Use - Class 4
	HOD CLL		biological/enem	Reduction	Luser ose cluss 4
ARCHITECTURAL	to a construct blocks (dBB)	March and an Annual March	D	Tread	T 7
Sound Attenuation	Intern Ambient Noise (dBA) See arch. note	Mechanical Noise (NR) See arch. note	Doors Type	Type 1 Door + Half Leaf	Type 2
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm *	
Construction	Screed on Concrete	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	Coved	-	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Plasterboard & Skim	<u> </u>	Locks	Key Lock& Thumb Turn	-
Finish	Paint		Closers	Closer	-
Protection	<u>- </u>	<u> </u>	Vision Pnl	-	-
			Protection	Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	-
System Finish	Tiles/Plasterb margin Metal/Painted	<u>.</u>	Other	Class 4 laser protection	-
Features	Wipeable	<u> </u>	Window Coverings	At Facade	Internal
Height	wipeable		Type	AL FOLOUE	internat
incigine			Light Control	-	-
Accessories (non-Lab)	Items	Notes	Operation	-	
Accessories (non-Lab)	Items Blackout curtains	Notes For laser use	Operation Manifestations / Film		-
Accessories (non-Lab)				-	-
Accessories (non-Lab)				- - Shelf	- - Notes
Accessories (non-Lab) Architectural Notes	Blackout curtains Acoustic consultant to advis	For laser use	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm	<u> </u>	
Architectural Notes	Blackout curtains Acoustic consultant to advis	For laser use	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm	<u> </u>	
	Blackout curtains Acoustic consultant to advis	For laser use	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm	<u> </u>	
Architectural Notes ENGINEERING HVAC	Blackout curtains Acoustic consultant to advis 1200 mm. Illuminated 'in t	For laser use e on Sound Attenuation. * Cle se' warning sign outside door	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm		f and half between 100
Architectural Notes ENGINEERING HVAC Temp (°C): Summer	Blackout curtains Acoustic consultant to advis Acoustic consultant to advis Temp (² C): Winter	For laser use	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm		f and half between 100
Architectural Notes	Blackout curtains	For laser use e on Sound Attenuation. * Cle se' warning sign outside door	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm	- minimum. Clear opening of lea Structural Loading Lab, normal	f and half between 100
Architectural Notes ENGINEERING HVAC Temp (°C): Summer	Blackout curtains Recoustic consultant to advis Common Illuminated 'in u Temp (² C): Winter 220C Temp Variation	For laser use e on Sound Attenuation. * Cle se' warning sign outside door	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm	- minimum. Clear opening of lea Structural Loading Lab, normal Equipment	f and half between 100
Architectural Notes ENGINEERING HVAC Temp_1^CC: Summer 22oC Temp_Toterance	Blackout curtains	For laser use	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm	- minimum. Clear opening of lea Structural Loading Lab, normal	f and half between 100
Architectural Notes	Blackout curtains	For laser use on Sound Attenuation. * Cla on Sound Attenuation. * Cla se warning sign outside door Drainage HDPE Chem Resist	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm	- minimum. Clear opening of lea Structural Loading Lab, normal Equipment	f and half between 100
Architectural Notes	Blackout curtains Blackout curtains Constitution Constitu	For laser use on Sound Attenuation. * Cle sse' warning sign outside door Drainage HDPE Chem Resist Electrical Foxer Supply	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i s.		f and half between 100
Architectural Notes ENGINEERING HVAC Temp(² C): Summer 22oC Temp Tolerance 4 0.5oC Ventilation, unply Comfort Cooling Humikity 40 ± 10%	Blackout curtains	For laser use on Sound Attenuation. * Cle se' warning sign outside door Drainage HDPC Chem Resist	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Structural Loading Lab, normal Faultiment Noise & Whation sens Data / AV / Comms Data	f and half between 100
Architectural Notes ENGINEERING HVAC Temp (°C): Summer 220C Temp (°C): Summer 20C VentRaten, supply (Confort Cooling Humidity 40 ± 10% Adx Filtration	Blackout curtains Blackout curtains	For laser use	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i s.	- minimum. Clear opening of lea Structural Loging Lab, normal Scuement Noise & Vibration sens. Data / AV / Comms Data Data Wireles	f and half between 100
Architectural Notes ENGINEERING HVAC Temp?C): Summer 22oC Temp Tolerance 40.5oC Comfort Cooling Humility: 40.±10% AtriTutation 77.Supply (80.85%)	Blackout curtains	For laser use on Sound Attenuation. * Cle se' warning sign outside door Drainage HDPC Chem Resist - Electrical Power Supply Zalov, trunking Cleaners outlets Fused Spur Essential / Standby Power Fused Spur	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Structural Loading Lab, normal Faultiment Noise & Whation sens Data / AV / Comms Data	f and half between 100
Architectural Notes ENGINEERING HVAC Tema Color, Summer 22oC Tems Tolerance ± 0.5oC VentRaton, supply VentRaton, supply Comfort Cooling Hamility Au Fittution F7 Supply (80-85%) Min Air Charges	Blackout curtains Blackout curtains	For laser use on Sound Attenuation. * Cle se' warning sign outside door Drainage HDPC Chem Resist	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i		f and half between 100
Architectural Notes ENGINEERING HVAC Temp?CD: Summer 22oC Temp Tolerance 4 0.5oC Comfort Cooling Humility 40 ± 10% Alt Fitration F7 Supply (80-85%) Min Alt Changes 4 AC/HR (Coupled)	Blackout curtains Blackout curtains	For laser use on Sound Attenuation. * Cle se' warning sign outside door Drainage HDPC Chem Resist - Electrical Power Supply Zalov, trunking Cleaners outlets Fused Spur Essential / Standby Power Fused Spur	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i		f and half between 100
Architectural Notes ENSINEERING HVAC Izena (°C): Summer 220C Terms Tolerance ± 0.50C Ventilation, supply Comfort Cooling Humidity 40 ± Filtration F7 Supply (80-85%) Min.Alt Charges 4 AC/HR (Occupied)	Blackout curtains Blackout curtains	For laser use the laser use of the laser	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i		f and half between 100
Architectural Notes ENGINEERING HVAC Temp?C): Summer 22oC Temp Tolerance 4 0.5oC Ventilation.usply Comfort Cooling Humikity 40 ± 10% At Fitration F Supply (80-85%) Min Aic Changes 4 AC/HR (Coupled) Piped Services Water	Blackout curtains Blackout curtains	For laser use on Sound Attenuation.* Cle see warning sign outside door Drainage HDPE Chem Resist	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Structural Loading Lab, normal Example Analysis & Vibration sens. Data / AV / Comms Data / AV / Comms	f and half between 100
Architectural Notes ENSINEERING HVAC Izena (°C): Summer 220C Terms Tolerance ± 0.50C Ventilation, supply Comfort Cooling Humidity 40 ± Filtration F7 Supply (80-85%) Min.Alt Charges 4 AC/HR (Occupied)	Blackout curtains Blackout curtains	For laser use laser lase	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i .		f and half between 100 V/bration Criteria VC-C**
Architectural Notes ENGINEERING HVAC Temmg ⁽² C): Summer 22oC Temmg ⁽² C): Summer 22oC Ventilation.usphy Comfort Cooling titumidity 4 Min Air Charace 4 AC/HR (Cocypied) Piped Services Water Lab CW & HW	Blackout curtains Blackout curtains	For laser use on Sound Attenuation.* Cle see warning sign outside door Drainage HDPE Chem Resist	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Structural Loading Lab, normal Example Noise & Vibration sens. Data / AV / Comms Data / AV / Comms	f and half between 100
Architectural Notes ENGINEERING HVAC Temp?C): Summer 22oC Temp Tolerance 4 0.5oC Ventilation.usply Coordort Cooling Humikity 40 ± 10% Atr Entration F Supply (80-85%) Min.Aic Changes 4 AC/HR (Coupled) Piped Services Water	Blackout curtains Blackout curtains	For laser use for the laser lase	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i .		f and half between 100 V/bration Criteria VC-C**
Architectural Notes ENGINEERING HVAC Tempa (°C): Summer 23oC Tempa (°C): Summer 240 (°C): Summer 250 (°C): Summer 200 (°C): Summ	Blackout curtains Blackout curtains	For laser use on Sound Attenuation.* Cle see warning sign outside door Drainage HDPE Chem Resist Electrical Power Supply Zalov, trunking Cleaners outlets Fued Spur Essential / Standby Power EM Interference Lighting Ligh	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i		f and half between 100 V/bration Criteria VC-C**
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Architectural Notes ENGINEERING HVAC Temmg 2°C): Summer 22cC Temm Toterance 1 0.5oC Ventilation.sumpt Comfort Cooling Humality 40 ± 10% 400 400 40 ± 10% 400 400 400 400 400 4	Blackout curtains Blackout curtains	For laser use on Sound Attenuation. * Cle see warning sign outside door Drainage HDDE Chem Resist Electrical Power Supply Zalov, trunking Cleaners outlets Fued Spur Essential / Standby Power EM Interference Uighting Lighting Switching S	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Structural Loading Lab, normal Equipment Noise & Vibration sens. Data / AV (comms Data / AV (comms Data / AV (comms Data Vireless Digital Projection Projector Screen Security / Life Safety Security / Systems Entropy (comms Security / Systems Security Syst	f and half between 100 Vibration Criteria VC-C**
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Architectural Notes NGINEERING HVAC Tamp_1Cp; Summer 22oC temp laterator to 0.5oC Ventilation.supply Comfort Cooling Humility 40 ± 10% Au Filtration F7 Supply (80.85%) Min Air Charges 4 AC/HR (Occupied) Piped Services Water Lab CW & HW Piped Services Compressed Air Carbon Disoide - Botthed Gases	Blackout curtains Blackout curtains	For laser use on Sound Attenuation. * Cle see warning sign outside door Drainage HDDE Chem Resist Electrical Power Supply Zalov, trunking Cleaners outlets Fued Spur Essential / Standby Power EM Interference Uighting Lighting Switching S	Manifestations / Film Shelving (non-lab) ar opening of full leaf 800 mm i	Structural Loading Lab, normal Easignment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Data Projector Screen Fire Detector/Sourglen Fire Detector/Sourglen Fire Detector/Sourglen Fire Detector/Sourglen Fire Detector/Sourglen	f and half between 100 Vibration Criteria VC-C**
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LABORATORY FURNIT	URE				
Lab Benching	Type Bench, Special	Benchtop Material Trespa Toplab Base	Depth -	Notes Computer bench	
	Bench, Special	Trespa Toplab Base	-	Optical table	
Other LF Elements	Above Lab Bench		Other Storage Units		
			Component rack		-
	-		-	-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, P	TD included)
	Sink- Epoxy (integral)	Lab CW & HW	Hands-free (sonar)	-	Splash Pnl & Dry Ra
LABORATORY EQUIPN	1ENT (ASE*)				
			ASE = Architecturally (/Engin	eering) Significant Equipment	** O = Owner C = Contrac
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	· · · · · · · · · · · · · · · · · · ·				-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Microscopes	Refer to equipment list		_	-
	Optical Air Table			1200 x 2400mm	-

V1.00





PROPOSED PLAN - LIVE CELL SUITE (LEVEL 6)

WSN- Workstation with computer OPT - Optical Table MIC- Microscope RAK- Component Rack HWS - Hand Wash Station

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OOM CRITERIA SHE	ET				
ve Cell Imaging					
ve een magnig	Laboratory for live cell imagi	ng			In-Vitro Imaging
					Sixth Floor
NERAL	Nominal Area 91 nsm	Occupants	Hours in Use Extended Hours	Equality Act Compliance Compliant	Natural Light Not Required
	91 115111		Extended Hours	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological/Chem	Radiation	Laser Use - Class 38
			-		
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
Floors	See arch. note Type 1 - 100%	See arch. note Type 2 - Not Used	Туре	Door + Half Leaf	<u>.</u>
Construction	Screed on Concrete	Type 2 - Not Used	Size	1200 mm *	·
Floor Finish	Vinyl	<u> </u>	Door Material	Swinging Timber- Solid Core	<u> </u>
Skirting	Coved	<u> </u>	Door Finish	HPL	
Skirting	coveu		Frame Material	Timber	
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Plasterboard & Skim	THE RECEIPTER	Locks	Key Lock& Thumb Turn	-
Finish	Paint	-	Closers	Closer	
Protection	-		Vision Pnl	closer	
Trotection			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	
System	Tiles/Plasterb margin	-	Other	Class 3B laser protection	
Finish	Metal/Painted	-			
Features	Wipeable	-	Window Coverings	At Facade	Internal
Height		-	Туре		
-		·	Light Control	-	-
Accessories (non-Lab)	Items	Notes	Operation	-	-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Blackout curtains	For laser use	Manifestations / Film	-	-
	-				
	-				
Architectural Notes		e on Sound Attenuation. * Clea e' warning sign outside doors.	Shelving (non-lab)	Shelf - minimum. Clear opening of leaf	Notes and half between 1000
				<u> </u>	
GINEERING		e' warning sign outside doors.		- minimum. Clear opening of leaf	
IGINEERING HVAC	1200 mm. Illuminated 'in us	e' warning sign outside doors. Drainage		 minimum. Clear opening of leaf Structural	and half between 1000
GINEERING HVAC Temp (°C): Summer	1200 mm. Illuminated 'in us <u>Temp1</u> °C): Winter	e' warning sign outside doors.			and half between 1000
GINEERING HVAC Temp (°C): Summer 22oC	1200 mm. Illuminated 'in us Temp1°C): Winter 220C	e' warning sign outside doors. Drainage		- minimum. Clear opening of leaf Structural Loading Lab, normal	and half between 1000
GINEERING HVAC Temp1°C): Summer	1200 mm. Illuminated 'in us <u>Temp1</u> °C): Winter	e' warning sign outside doors. Drainage			and half between 1000
GINEERING HVAC <u>Temp (</u> °C): Summer 220C <u>Temp Tolerance</u>	1200 mm. Illuminated 'in us <u>Temp (</u> ^o C): Winter <u>22oC</u> <u>Temp Variation</u>	e' warning sign outside doors. Drainage HDPE Chem Resist -		- minimum. Clear opening of leaf Structural Loding Lab, normal Equipment	and half between 1000
GINEERING HVAC 22oC <u>Temp (°</u> C): Summer <u>7emp Tolerance</u> ± 0.5oC	1200 mm. Illuminated 'in us Temp (^o C): Winter 220C Temp Variation ± 0.50C / Hour	e' warning sign outside doors. Drainage HDPE Chem Resist Electrical		- minimum. Clear opening of leaf Structural Loding Lab, normal Equipment	and half between 1000
GINEERING HVAC Temp1°C): Summer 22oC TempTolerance ± 0.5oC Ventilation, supply	1200 mm. Illuminated 'in us Temp (^C C): Winter 22oC Temp Variation ± 0.5oC / Hour Ventilation, exhaust	Prainage HDPE Chem Resist Electrical Power Supply	r opening of full leaf 800 mm i		and half between 1000
GINEERING HVAC 220C Temp Tolerance ± 0.50C Ventilation, supply Comfort Cooling Humidity 4 0 ± 10%	1200 mm. Illuminated 'in us Temp I ^o C): Winter 22oC Temp Variation ± 0.5oC / Hour Ventilation, exhaust General Extract	Prainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Fused Spur	r opening of full leaf 800 mm i	Control C	and half between 1000
GINEERING HVAC ZacC Temp (°C): Summer ZacC Ventilation, supply Comfort Cooling Humidity 40 ± 10% 41 filtration	1200 mm. Illuminated 'in us <u>Temp (²C): Winter</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>2</u>	Prainage HDPE Chem Resist 	r opening of full leaf 800 mm i	- Cear opening of leaf Structural Loading Lab, normal Avi / comms Data / Av / comms Data / Avi / comms Data Data	and half between 1000
GINEERING HVAC Temp CO: Summer 220C Mentilation supply Comfort Cooling Humidity 40 ± 10% Air filtration F7 Supply (80-85%)	1200 mm. Illuminated 'in us Temp (² C): Winter 22oC Temp Variation ± 0.5oC / Hour Versitation, exhaust General Extract <u>Air Pressure</u> Negative Airflow	e' warning sign outside doors.	r opening of full leaf 800 mm i	Control C	and half between 1000
GINEERING HVAC Zacc Summer 22cc Obtrance 40.5cc Confort Cooling Humidity 40.4 10% 40.4 10% 40.4 10% Min Air Charges	1200 mm. Illuminated 'in us <u>Temp (²C): Winter</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>2</u>	Prainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Fused Spur	r opening of full leaf 800 mm i	Structural Leading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data Data Digital Projection	and half between 1000
GINEERING HVAC Temp (C): Summer 220C Temp Tohrance ± 0.50C Venitation.supply Comfort Cooling Humility 40 ± 10% 40 ± 10% Min Alc Changes 4 AC/HR (Occupied)	1200 mm. Illuminated 'in us <u>Temp (²C): Winter</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>2</u>	e' warning sign outside doors.	r opening of full leaf 800 mm i	- Cear opening of leaf Structural Loading Lab, normal Avi / comms Data / Av / comms Data / Avi / comms Data Data	and half between 1000
GINEERING HVAC Teme[CC]: Summer 22oC Temp Tolerance ± 0.5oC Ventilation, supply Comfort Cooling Humility 40 ± 10% Ar Fittration 47 Fluxply (80-85%) Min Air Changes 4 AC/HR (Occupied) Piped Services	1200 mm. Illuminated 'in us <u>Temp (²C): Winter</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>2</u>	e' warning sign outside doors. Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking 240v, trunking 240v, trunking Eusential Standby Power Eusential Standby Powe	r opening of full leaf 800 mm i	Structural Leading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data Data Digital Projection	and half between 1000
GINEERING HVAC 220C Tolerance Tema (*C): Summer 220C Tolerance 20050C Sentilization, supply Sentilization, supply Sentilization Humathy Air Fitration F7 Supply (80-85%) Min Air Changes 4 AC/HR (Coupled) Piped Services Water,	1200 mm. Illuminated 'in us <u>Temp (²C): Winter</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>2</u>	Drainage HDPE Chem Resist Electrical Power Supply Cleaners outlets Fused Spur Essential / Standby Power Electrical Mitterforence Electrical Mitterforence Ughting	- copening of full leaf 800 mm i - copening of full leaf 800 mm i - copening the second seco	Structural Loading Lab, normal Experiment Moles & Vibration sens. Data / AV / Comms Data / AV / Comms Data Vireless Dystal Projection Freight Screen	and half between 1000
GINEERING HVAC Teme[CC]: Summer 22oC Temp Tolerance ± 0.5oC Ventilation, supply Comfort Cooling Humility 40 ± 10% Ar Fittration 47 Fluxply (80-85%) Min Air Changes 4 AC/HR (Occupied) Piped Services	1200 mm. Illuminated 'in us <u>Temp (²C): Winter</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>2</u>	Prainage HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230x, trunking Cleaners outlets Fused Spure Essential / Standby Power Minterference Lighting Lighting	r opening of full leaf 800 mm i		Vibration Criteria VC-C**
GINEENING WAC Tang, "CD: Summer Izang, "CD: Summer 2000, "Defending South and the second south and the second south and the second Ar Filtration Ar Filtration Ar Filtration Ar AC/INR (Occupied) Piped Services Water Lab CW (Cat S)	1200 mm. Illuminated 'in us <u>Temp (²C): Winter</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>2</u>	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Suntking Cleaners outlets Fused Spur Exential / Standby Power EM Interference Lighting Lighting Lighting	- copening of full leaf 800 mm i	Structural Loading Lab, normal Experiment Moles & Vibration sens. Data / AV / Comms Data / AV / Comms Data Vireless Dystal Projection Freight Screen	and half between 1000
GINEERING HVAC Temp_TC: Summer 220C TempTotranse 4 0.50C Viritiation, supply Comfort Cooling Humailay 40 ± 10% 40 ± 10%	1200 mm. Illuminated 'in us Temp.(*O): Winter 2200C Temp.Variation 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 5 0	Prainage HDPE Chem Resist HDPE Chem Resist Electrical Forver Supply 230v, trunking Cleaners outlets Fused Spure Essential / Standby Power Lighting Lighting General Lighting Switching	r opening of full leaf 800 mm i		Vibration Criteria VC-C**
GINEEXING WAC TIME ("C): Summer Izac Tuema" ("	1200 mm. Illuminated 'in us <u>Temp (²C): Winter</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>20oC</u> <u>2</u>	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Suntking Cleaners outlets Fused Spur Exential / Standby Power EM Interference Lighting Lighting Lighting	- copening of full leaf 800 mm i		Vibration Criteria VC-C**
GINEERING HVAC Temp_TC: Summer 220C TempTotranse 4 0.50C Viritiation, supply Comfort Cooling Humailay 40 ± 10% 40 ± 10%	1200 mm. Illuminated 'in us Temp.(*O): Winter 2200C Temp.Variation 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 5 0	Prainage HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230v, trunking Geners outlets Fused Spur Essential / Standby Power EM Interference Lighting Lighting General Lighting Manual On/Off with PIR	r opening of full leaf 800 mm i	Cear opening of leaf Structural Lab, normal Equations Noise & Vibration sens. Data / AV / Comms Data /	Vibration Criteria VC-C**
GINEENING WAC Temp (*C): Summer 2306 Model Model Model Model Model Comfort Cooling Humality Comfort Cooling Humality Comfort Cooling Humality Actified (Cooling) Min Ac Charges Ac/CHR (Cooling) Piped Services Water Lab CW (Car 5) Piped Services Water Compressed Air Carbon Dioxide	1200 mm. Illuminated 'in us Temp.(*O): Winter 2200C Temp.Variation 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 5 0	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sunth Cleaners outlets Fused Spur Essential / Standby Power EM Interference Ughting Lighting General Lighting Switching Manual On / Of with PIR Other Lighting	r opening of full leaf 800 mm i	Structural Loading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data Vireless Digital Projection Freedord Screen . . Ecurity / Life Safety Security / Life Safety . Encommon Content of Content . Encommon Content of Content Encommon Conten Encommon Content Encommon Content Encommon Content	Vibration Criteria VC-C**
GINEERING HVAC Temp1 ² (2): Summer 220C Temp1 ² (2): Summer 220C Temp1 ² (2): Summer 220C Comfort Cooling Humidity 40 ± 10% A0 ±	1200 mm. Illuminated 'in us Temp.(*O): Winter 2200C Temp.Variation 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 5 0	Prainage HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230v, trunking Geners outlets Fused Spur Essential / Standby Power EM Interference Lighting Lighting General Lighting Manual On/Off with PIR	r opening of full leaf 800 mm i	Cear opening of leaf Structural Lab, normal Equations Noise & Vibration sens. Data / AV / Comms Data /	Vibration Criteria VC-C**
GINEENING WAC Temp (*C): Summer 2306 Model Model Model Model Model Comfort Cooling Humality Comfort Cooling Humality Comfort Cooling Humality Actified (Cooling) Min Ac Charges Ac/CHR (Cooling) Piped Services Water Lab CW (Car 5) Piped Services Water Compressed Air Carbon Dioxide	1200 mm. Illuminated 'in us Temp.(*O): Winter 2200C Temp.Variation 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 5 0	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sunth Cleaners outlets Fused Spur Essential / Standby Power EM Interference Ughting Lighting General Lighting Switching Manual On / Of with PIR Other Lighting	copening of full leaf 800 mm i	Structural Loading Lab, normal Loyaling Lab, normal Equipmenti Noise & Vibration sens. Data / AV / Comms Data / Equipmenti Security / Life Safety Security / Life Safety Execution Scitem The Detection Sincke Detector/Soundert	Vibration Criteria VC-C** Alarm Systems Alarm Systems CTV CTV
GINEERING HVAC Temp1 ² (2): Summer 220C Temp1 ² (2): Summer 220C Temp1 ² (2): Summer 220C Comfort Cooling Humidity 40 ± 10% A0 ±	1200 mm. Illuminated 'in us Temp.(*O): Winter 2200C Temp.Variation 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 5 0	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sunth Cleaners outlets Fused Spur Essential / Standby Power EM Interference Ughting Lighting General Lighting Switching Manual On / Of with PIR Other Lighting	r opening of full leaf 800 mm i	Cear opening of leaf Structural Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data	
GINEERING HVAC Temp1 ² (2): Summer 220C Temp1 ² (2): Summer 220C Temp1 ² (2): Summer 220C Comfort Cooling Humidity 40 ± 10% A0 ±	1200 mm. Illuminated 'in us Temp.(*O): Winter 2200C Temp.Variation 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 4 0.562/Hour 5 0	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sunth Cleaners outlets Fused Spur Essential / Standby Power EM Interference Ughting Lighting General Lighting Switching Manual On / Of with PIR Other Lighting	copening of full leaf 800 mm i	Structural Loading Lab, normal Loyaling Lab, normal Equipmenti Noise & Vibration sens. Data / AV / Comms Data / Subsection Projector Screen	Vibration Criteria VC-C** Alarm Systems Alarm Systems CTV CTV

Live Cell Imaging

Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Special	Trespa Toplab Base	-	Computer bench	
	Bench, Special	Trespa Toplab Base	-	Optical air tables	
Other LF Elements	Above Lab Bench		Other Storage Units		
		-	Component rack	-	-
	-	-	-	-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, P	TD included)
	Sink- Epoxy (integral)	Lab CW (Cat 5)	Hands-free (sonar)	-	Splash Pnl & Dry Rack
LABORATORY EQUIPM	/IENT (ASE*)		ASE = Architecturally (/Engine	eering) Significant Equipment	** O = Owner C = Contracts
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	-				-
	Faciliaria	Name/Model	0	C	Furnish - Install**
	Equipment Microscopes	Refer to equipment list	Quantity	Size	Furnish - Install**
	Optical Air Table	Refer to equipment list		1200 x 2400mm	

TECHNICAL HUBS IN-VITRO IMAGING - SUPER RESOLUTION / SINGLE MOLECULE IMAGING



AIR- Air Table UBC - Mobile Underbench Cupboard Unit

MRC LMS Stage 2 Report - Section 3

uper Resolution (SF	1) Imaging				
	Laboratory for enhanced re Further development requi		ntal requirements are similar to	Confocal Imaging.	In-Vitro Imaging Fourth Floor
NERAL	Nominal Area 22 nsm	Occupants	Hours in Use Extended Hours	Equality Act Compliance Compliant	Natural Light Not Required
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological/Chem	Radiation	Laser Use - Class
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note	See arch. note	Type	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm *	-
Construction	Screed on Concrete	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	Coved	-	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	
Construction	Plasterboard & Skim		Locks	Access Ctrl + Lock	Interlock
Protection	Paint		Vision Pnl	Closer	
Protection			Protection	- Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	-
System	Tiles/Plasterb margin	-	Other	Class 3B laser protection	
Finish	Metal/Painted	-	other	cluss so luser protection	-
Features	Wipeable		Window Coverings	At Façade	Internal
Height	-	-	Туре	-	-
			Light Control	-	-
Accessories (non-Lab)	Items	Notes	Operation	-	-
	-		Manifestations / Film	-	-
	-				
	-		Shelving (non-lab)	Shelf	Notes
Architectural Notes	1200 mm. Illuminated 'in u	se' warning sign outside doors	i.		
	1200 mm. Illuminated 'in u	se' warning sign outside door:	i.		
Architectural Notes	1200 mm. Illuminated 'in u	se' warning sign outside doors		Structural	
IGINEERING HVAC		Drainage		Structural Loading	Vibration Criteria
IGINEERING	<u>Temp(</u> °C): Winter 220C			Loading	Vibration Criteria VC-C**
IGINEERING HVAC <u>Temp</u> (°C): Summer 22oC Temp Tolerance	Temp (°C): Winter 22oC Temp Variation	Drainage HDPE Chem Resist		Loading Lab, normal Equipment	Vibration Criteria VC-C**
IGINEERING HVAC 22oC Temp1 ^o C): Summer 22oC 1000 1000 1000 1000 1000 1000 1000 10	Temp (°C): Winter 220C Temp Variation ± 0.5C / Hour	Drainage HDPE Chem Resist 	- <u></u>	Loading Lab, normal	
GINEERING HVAC Temp1°C): Summer 22oC TempTolerance ± 0.5oC Ventilation, supply	Temp (°C): Winter 22oC Temp Variation ± 0.5C / Hour Ventilation, exhaust	Drainage HDPE Chem Resist 	<u>-</u>	Loading Lab, normal Equipment Noise & Vibration sens.	
GINEERING HVAC 220C Iemp 1°C): Summer 220C iemp Tolerance ± 0.50C Ventilation, supply Comfort Cooling	Temp (^o C): Winter 22oC Temp Variation ±0.5C / Hour Ventilation, exhaust General & Dedicated*	Drainage HDPE Chem Resist 		Laading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms	
IGINEERING HVAC Temp[C): Summer 22oC TempTolerance ± 0.5oC Ventilation, supply Comfort Cooling Humidity	Temp (°C): Winter 22oC Temp Variation ± 0.5C / Hour Ventilation, exhaust General & Dedicated* Air Pressure	Drainage HDPE Chem Resist 	<u>-</u>	Laading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms	
GINEERING HVAC 22oC Imm Tolerance ± 0.5oC Yentilation, supply Comfort Cooling Humidity 4 0.5 10%	Temp (°C): Winter 22oC Temp Variation ± 0.5C / Hour Ventilation, exhaust General & Dedicated* Air Pressure Negative Airflow	Drainage HDPE Chem Resist 	 	Laading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data	
GINEERING HVAC Zacc Temp (°C): Summer Zacc Ventilation, supply 40.5c0 Comfort Cooling Humidity 40.2 10% 40.2 10%	Temp (°C): Winter 22oC Temp Variation 4 0.5C / Hour Ventilation, eshaust General & Dedicated* Air Pressure Negative Airflow Ecuioment	Drainage HDPE Chem Resist 	<u>-</u>	Laading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data Wireless	
GINEERING HVAC 22oC Temp Tolerance ± 0.5oC Ventilation, supply Comfort Cooling Humidity 40 ± 10% Åir fittration F7 Supply (80-85%)	Temp (°C): Winter 22oC Temp Variation ± 0.5C / Hour Ventilation, exhaust General & Dedicated* Air Pressure Negative Airflow	Drainage HDPE Chem Resist 	 	Laading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data	
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GINEERING HVAC Temp 2/00 Te	Temp (°C): Winter 22oC Temp Variation 4 0.5C / Hour Ventilation, eshaust General & Dedicated* Air Pressure Negative Airflow Ecuioment	Drainage HDPE Chem Resist 	 	Lading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data Wireless Digital Projection	
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GIVEERING HVAC Trans_70: Summer 220C Time_Tolerance ± 0.50C Viritation, pagely Comfort Cooling Humidity 40 ± 10% 40 ± 10	Temp (°C): Winter 22oC Temp Variation 1 0.5C / Hour Ventilation, exhaust General & Dedicated* Ait Pressare Negative Airflow Ecoloment See Lab Equip	Drainage HDPE Chem Resist 		Laading Lab, normal Equipment Noise & vibration sens. Data / AV / Comms Data / AV / Comms Data / AV / Comms Data AV / Comms Data AV / Comms Data Security Comms Security Systems	<u>-</u>
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GIVEERING HVAC Trans_70: Summer 220C Timp_10ters 220C Timp_10ters 220C Timp_10ters 220C Timp_10ters 20C Ministry 40C+10ters 40C+10ters 40C+10ters 40C+10ters 40C+10ters Piped Services Diped Services Compressed Air Composed Air	Temp (°C): Winter 22oC Temp Variation 1 0.5C / Hour Ventilation, exhaust General & Dedicated* Ait Pressare Negative Airflow Ecoloment See Lab Equip	Drainage HDPE Chem Resist 		Lading Lab, normal Equipment Noise & vibration sens. Data / AV / Comms Data / AV / Comms Data AV / Comms Data AV / Comms Data Data / AV / Comms Data Security Comms Security Security Security Security Security Life Safety Security Setems Fire Detector/Sounder Fire Detector/Sounder Fire Control	
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LABORATORY FURNIT	URE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Special		-	Optical air table for la	ser work
	Bench, Movable	Trespa Toplab Base	750mm		
Other LF Elements	Above Lab Bench		Other Storage Units		
	-	-	Underbench cabinet	-	
	-	-	-	-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD,	PTD included)
	Sink- Epoxy (integral)	Lab CW & HW	Hands-free (sonar)		Splash Pnl & Dry Rad
LABORATORY EQUIPN	AFNIT (ACE\$)				
LABORATORT EQUIPM	IENT (ASE')	•	ASE = Architecturally (/Engine	ering) Significant Equipment	t ** O = Owner C = Contract
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	-				-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Optical Air Table			1200 x 2400mm	-
	Microscopes	Refer to equipment list			-

OOM CRITERIA SHE	rch Council (MRC) FT				Issued: 26 Feb 2
ngle Molecule (SM)		In the end of a			In-Vitro Imaging
	Laboratory for single molecu	ie imaging			Fourth Floor
					Pourth Floor
NERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	23 nsm		Extended Hours	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological/Chem	Radiation	Laser Use - Class 4
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note	See arch. note	Type	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm *	-
Construction	Screed on Concrete		Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	Coved	-	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Plasterboard & Skim		Locks	Key Lock& Thumb Turn	-
Finish	Paint	-	Closers	Closer	-
Protection	-	-	Vision Pnl	-	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	-
System	Tiles/Plasterb margin		Other	Class 4 laser protection	-
Finish	Metal/Painted	-			
Features	Wipeable	-	Window Coverings	At Facade	Internal
Height	-	-	Туре		-
			Light Control	-	-
Accessories (non-Lab)	Items	Notes	Operation	-	
	<u>-</u>		Manifestations / Film	<u>.</u>	-
	-				
Architectural Notes		e on Sound Attenuation. * Cle e' warning sign outside doors		Shelf - minimum. Clear opening of leaf	Notes and half between 100
			ar opening of full leaf 800 mm		
IGINEERING		e" warning sign outside doors	ar opening of full leaf 800 mm	- minimum. Clear opening of leaf	
IGINEERING HVAC	1200 mm. Illuminated 'in us	e" warning sign outside doors Drainage	ar opening of full leaf 800 mm		and half between 1000
IGINEERING HVAC Temp (°C): Summer	1200 mm. Illuminated 'in us Temp (°C): Winter	e" warning sign outside doors	ar opening of full leaf 800 mm	minimum. Clear opening of leaf	and half between 1000
IGINEERING HVAC Temp (°C): Summer 22oC	1200 mm. Illuminated 'in us <u>Temp I</u> ^o C): Winter <u>220C</u>	e" warning sign outside doors Drainage	ar opening of full leaf 800 mm	 minimum. Clear opening of leaf Structural Loading Lab, normal	and half between 100
IGINEERING HVAC 220C Temp (² C): Summer 7emp Tolerance ± 0.5oC	1200 mm. Illuminated 'in us Temp (°C): Winter 220C Temp Variation ± 0.50C / Hour	e' warning sign outside doors Drainage HDPE Chem Resist - Electrical	ar opening of full leaf 800 mm	minimum. Clear opening of leaf	and half between 1000
IGINEERING HVAC Temp1°C): Summer 22oC Temp Tolerance ± 0.5oC Ventilation, supply	1200 mm. Illuminated 'in us Temp_I^C): Winter 22oC Temp Variation ± 0.5oC / Hour Ventilation, exhaust	Prainage HDPE Chem Resist Electrical Power Supply	ar opening of full leaf 800 mm i	Structural Labing Lab, normal Saujament Noise & Vibration sens.	and half between 1000
IGINEERING HVAC <u>Temp</u> (°C): Summer <u>22oC</u> <u>Temp Tolerance</u> ± 0.5oC <u>Ventilation, supply</u> Comfort Cooling	1200 mm. Illuminated 'in us Temp (°C): Winter 22oC Temp Variation ± 0.5oC / Hour Ventilation, exhaust General Extract	Prainage HDPE Chem Resist 	ar opening of full leaf 800 mm	Structural Laading Lab, normal Equipment Data / AV / Comms	and half between 1000
IGINEERING HVAC Temp (² C): Summer 22oC Temp Tolerance ± 0.5oC Yentilation, supply Comfort Cooling Humidity	1200 mm. Illuminated 'in us Temp (² C): Winter 220C Temp Variation 2 0.50C / Hour Ventilation, exhaust General Extract dir Pressure	Prainage HDPE Chem Resist 	ar opening of full leaf 800 mm i	Structural Leading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms	and half between 1000
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GINEERING HVAC Z2oC Temp /°C): Summer Z2oC Ventition, supply Comfort Cooling Humidity 40 ± 10% 41 r filtration	1200 mm. Illuminated 'in us Temp (² C): Winter 220C Temp Variation ± 0.5oC / Hour Veritation, orshuut General Extract Megative Airflow Regative Airflow	Prainage HDPE Chem Resist 	ar opening of full leaf 800 mm i	Structural Leading Lab, normal Autommal Noise & Vibration sens. Data / AV / Comms Data Mireles	and half between 1000
GINEERING HVAC Temp (°C): Summer 220C Temp Tolerance ± 0.50C Yentilation, supply Comfort Cooling Humidity 40 ± 10% 40 ± 10% F7 Supply (80-85%)	1200 mm. Illuminated 'in us Temp (² C): Winter 220C Temp Variation ± 0.50C / Hour Ventilation, exhaust General Extract Air Pressure Negative Airflow	e' warning sign outside doors Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Fused Spur Essential / Standby Power	ar opening of full leaf 800 mm i	Structural Laading Lab, normal Eauformat Support Data / AV / Comms Data / AV / Comms Data	and half between 1000
GINEERING HVAC Zacc Temp (*C): Summer 22oc Combox Cooling Humdity Gonfort Cooling Humdity 40 ± 10% Ar fittation H7 Supply (80-85%) Min Air Charges	1200 mm. Illuminated 'in us Temp (² C): Winter 220C Temp Variation ± 0.5oC / Hour Veritation, orshuut General Extract Megative Airflow Regative Airflow	Prainage HDPE Chem Resist 	ar opening of full leaf 800 mm i	Structural Leading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data Data / Projection -	and half between 1000
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GINEERING HVAC Timm_CO: Summer 22aC Timm_Tolerance a 0.5aC Comfort Cooling United Cooling Destination Act Illiance Act Act Act Act Act Act Act Act Act Act	1200 mm. Illuminated 'in us Izeno (*C): Winter 22cC Temp Variation 40.50C / Hour Verifation, exhaust General Extract Aur Dreams See Lab Equip -	v waning sign outside doors Drainage HDPE Chem Resist HDPE Chem Resist Electrical Prover Signific Electrical Prover Signific Electrical Solv, trunking Electrical Solv, trunki	ar opening of full leaf 800 mm i	Structural Leading Lab, normal Eduginert Noise & Vibration sens. Data / AV / Comms Data / AV / Comms	Vibration Criteria VC-C**
GINEERING HVAC Timm_CO: Summer 22aC Timm_Tolerance a 0.5aC Comfort Cooling United Cooling Destination Act Illiance Act Act Act Act Act Act Act Act Act Act	1200 mm. Illuminated 'in us Izenp (°C): Winter 22cC Temp Variation 40.50C / Hour Verifation, schaudt General Extract Auf Resums Equip See Lab Equip -	er wanning sign ourside doors Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sough Zako, transita Electrical Sough Exaceful Sandhy Power Esaceful Sandhy Power Esaceful Sandhy Power Esathar Sandhy Power Esa	ar opening of full leaf 800 mm i	Structural Leading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety Security / Life Safety	Vibration Criteria VC-C** Alarm Systems
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GINEERING HVAC Transf ² (2): Summer ZaoC Transf ² (2): Summer ZaoC Transf ² (2): Summer ZaoC Transf ² (2): Summer ADST ² (2): S	1200 mm. Illuminated 'in us Izenp (°C): Winter 22cC Temp Variation 40.50C / Hour Verifation, schaudt General Extract Auf Resums Equip See Lab Equip -	varning sign outside doors	ar opening of full leaf 800 mm i	Structural Lading La	Alarn Systems
GINEERING HVAC Transf ² (2): Summer ZaoC Transf ² (2): Summer ZaoC Transf ² (2): Summer ZaoC Transf ² (2): Summer ADST ² (2): S	1200 mm. Illuminated 'in us Izenp (°C): Winter 22cC Temp Variation 40.50C / Hour Verifation, schaudt General Extract Auf Resums Equip See Lab Equip -	varning sign outside doors	ar opening of full leaf 800 mm i	Structural Loading Lab, normal Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms	Alarn Systems

LABORATORY FURNIT	URE				
Lab Benching	Туре	Benchtop Material	Depth	Notes	
	Bench, Special	-	-	Optical air table for laser	work
	Bench, Movable	Trespa Toplab Base	750mm		
Other LF Flements	Above Lab Bench		Other Storage Units		
	-	-	Underbench cabinet	-	-
	-	-	-	-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PT	
	Sink- Epoxy (integral)	Lab CW (Cat 5)	Hands-free (sonar)	-	Splash Pnl & Dry Ra
LABORATORY EQUIPM	/IENT (ASE*)		APP Andreast the Upperson	ering) Significant Equipment *	10.0
	Extract Equipment	Name/Model	Ase = Architecturally (/Engine Quantity	Size	Furnish - Install**
	excider equipment	Nonic) Model	quantity	5100	Turnight matur
					-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Optical Air Table			1200 x 2400mm	-
	Microscopes	Refer to equipment list		-	-

TECHNICAL HUBS CRYO-FM SUITE

The CryoEM Suite is designed to house a new Titan Krios G3 transmission electron microscope and the existing CM200 both manufactured by FEI. The vibration criteria for the Krios is VC-E and VC-F and is sensitive to electromagnetic interference (EMI); for the building it is one of, if not the most, demanding space.

The current location proposed is on the southern end of the site and where walls) an proximity to the South Core's lifts and adjacent vehicle movement will need CryoEM. to be addressed. A vibration study which was performed on the site sug-gests that the vibration criteria can be achieved on the site through design of the structure and improvement of surrounding road surfaces. The Krios is likely to be affected by EMI generated from moving metal masses (lifts and vehicles). At this time, it is recommended that the microscope room(s) be EMI-shielded.

The CryoEM user meetings have included discussions with FEI and input from the recently completed Francis Crick Institute's facility. In addition to considering the facility needs for the Krios, the users have been considering the future needs of the suite: particularly the companion to the Krios and replacement of the CM200. The users believe that the second room should play' for a state-of-the-art technology. FEI confirmed that this was possible, be designed to accommodate the FEI Glacios; a high-throughput screening device to select the optimal samples to be examined by the Krios. Although it is much less expensive, it requires the similar design considerations as the Krios in a slightly smaller room.

For future-proofing, the users would like the second room to be as large as possible as the next new technology could require more space than the Krios (ideally housing both the Glacios and CM200 at the same time).

The briefed area for the CryoEM Suite was 100 net sqm, inlcuding 'New Imaging Modalities' for the building.

PROPOSED

The current space for the CryoEM Suite remains in flux. Physically, it is an independent suite within an area that is bound by the requirements of the South Core (namely the fire rated exit corridor); the locations of primary structure (columns), the south and southwest building profile (external walls) and the decision by LMS on the space that it wants to commit to

The basic elements of the Suite are the two microscope rooms, a shared control room and a prep lab. Ideally, the traffic from the prep lab to each scope room does not crossover through the control room. In discussions with FEI (and different from their published installation manuals), the service rooms can be remote from each scope room, in fact, they could be in the CryoEM plant above on Level 1. They include chillers and back-up UPS, as well as gas bottles. These discussions are to continue into Stage 3, however the suite currently accommodates 165sqm.

The users asked if the Krios could have an external window: 'science on disand the architect was interested.

TECHNICAL HUBS CRYO-EM SUITE



CRM - Cryogenic Electron Microscope OCP - Optics Cabinet TEM - Cabinet - TEM CRC - Cabinet - Corrector PCB - Cabinet - Power HTT - HT Tank MMS - Movable Monitor Support LNT - LN2 Tank WRK - Water Rack CBX - Cabinet - Box GLS - Glacios Cryo-TEM Microscope CMT - CM200 Microscope

MRC LMS Stage 2 Report - Section 3

802.01 Medical Resect OOM CRITERIA SHE	ET				
(rios Lab	-				Room ID:
		ti-vibration criterion as specifi			Department:
	rooms to be located adjacent	le) to separate Cryo-EM faciliti t.	es from core, plant or delivery	spaces. Snared services	Level 0
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	40 nsm	-	Extended Hours	Compliant	Not Acceptable
Laboratories Only:	Containment	Fumigation	Safety Risks		
,-	ACDP CL2	No	Biological	-	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	Tbd by acoustic engineer	Tbd by acoustic engineer	Туре	Single Door	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	See Plan	-
Construction	Concrete	-	Operation	Swinging	-
Floor Finish	Vinyl, Sheet	-	Door Material	Lead-shielded	-
Skirting	Flooring Coved	<u>.</u>	Door Finish	-	-
Partitions	T 1 50%	7 7 50%	Frame Material Frame Finish	Polymer-clad	-
Partitions Construction	Type 1 - 50%	Type 2 - 50% Anti-vibration shielding	Frame Finish Locks	- Access Ctrl + Lock	-
Finish	Blockwork	Anti-vibration shielding Paint	Locks Closers	Access Ctrl + Lock w/ delayed release	
Protection		Pallit	Vision Pnl	Peephole only	
FIOLECCION		<u> </u>	Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	-
System	Accessible Grid	-	Other	-	-
Finish	Metal Tile	-			
Features	-	-	Window Coverings	At Façade	Internal
Height	4000mm	-	Туре	-	-
			Light Control	-	-
Accessories (non-Lab)	Items	Notes	Operation		-
Accessories (non-Lab)	Items -	Notes		<u>-</u>	-
Accessories (non-Lab)	<u>Items</u> - -	Notes	Operation Manifestations / Film		-
		Notes	Operation Manifestations / Film Shelving (non-lab)	- - - - - gineer.	- - - <u>Notes</u>
Accessories (non-Lab) Architectural Notes			Operation Manifestations / Film Shelving (non-lab)	<u> </u>	- - Notes
			Operation Manifestations / Film Shelving (non-lab)	<u> </u>	- - - Notes
Architectural Notes			Operation Manifestations / Film Shelving (non-lab)	<u> </u>	- - - Notes
Architectural Notes		neral engineering requiremen	Operation Manifestations / Film Shelving (non-lab)	- gineer.	Vibration Criteria
Architectural Notes NGINEERING HVAC Temp (*C): Summer 2006	Vibration attenuating and ge Temp (*C): Winter ZOOC	neral engineering requiremen	Operation Manifestations / Film Shelving (non-lab)	- gineer. Structural Loading Heavy Equipment	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Temp T(c): Summer 200C Temp Tolerance	- - - - - - - - - - - - - -	Drainage HDPE Chem Resist	Operation Manifestations / Film Shelving (non-lab)	- gineer. Structural Loading Heavy Equipment Equipment	Vibration Criteria
Architectural Notes NGINEERING HVAC Temp f ² (C): Summer 200C Temp Tolerance ± 0.50C	Temp I*C: Winter ZooC Temp Xiration 40.50C	Drainage HDPE Chem Resist 	Operation Manifestations / Film Shelving (non-lab)	- gineer. Structural Loading Heavy Equipment	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Temp P(2): Summer 200C 1 0.50C Ventilation, supply	- - - - - - - - - - - - - -	Drainage HDPE Chem Resist 	Operation Manifestations / Film Shelving (non-lab) Its to be confirmed by MEP en	- Structural Loading Heavy Equipment Equipment Noise & Vibration sens.	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Temp fCl: summer 200C Temp Tolerance 4 0.50C Vertitidion, sarphy Confront Cooling	Temp I*C: Winter ZooC Temp Xiation 10.50C Ventilition, exhaust General Extract	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking	Operation Manifestations / Film Shelving (non-lab)	- Structural Leading Heavy Equipment Equipment Doise & Vibration sens. Data / AV / Comms	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Temp (*C): Summer 200C 1 0:50C Ventilation, supply Comfort Cooling Humidity	- - - - - - - - - - - - - -	Drainage HDPE Chem Resist - Electrical Power Supply 230v, trunking 400 volt, 3 Phase	Operation Manifestations / Film Shelving (non-lab) Its to be confirmed by MEP en	Structural Leading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Temp fCl: summer 200C Temp Tolerance 4 0.50C Vertitidion, sarphy Confront Cooling	Temp I*C: Winter ZooC Temp Xiation 10.50C Ventilition, exhaust General Extract	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking	Operation Manifestations / Film Shelving (non-lab) Its to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Temp (*C): Summer 200C 1 mm Tolerance ± 0.50C Ventilation, supply Comfort Cooling Humidity 40 ± 10% Air Filtration	Temp I*C: Winter ZooC Temp Xiation to 5oc Ventiation, exhaust General Extract Air Pressure Negative Airlow	Drainage HDPE Chem Resist 	Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en 	Structural Leading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Temp [70]: summer 200C Temp Tolerance 1 0.50C Ventitian, supply Confrot Cooling Humitity 40 ± 10%	Temp I*C): Winter ZOOC ZOOC Vinter Vint	Drainage HDPE Chem Resist - Electrical Power Supply 230v, trunking Cleaners outlets Esential / Shandly Power	Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en 	Structural Leading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / comms Data / AV / comms Data / AV / comms Data / AV / comms	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Temp fCL: Summer 200C Temp Tolerance 1 0.50C Ventilation, supply Confrot Cooling Humidity 40 ± 10% Al ± 11% Al ± 11% Al ± 11% Al ± 11% Al ± Changes 4 Day (2 Night) /HR Min Alt'Changes 4 Day (2 Night) /HR	Temp I*C): Winter ZOOC ZOOC Vinter Vint	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking 400 volt, 3 Phase Gearers outlets Essential (Standby Power UPS, Central	Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en 	Structural Leading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / comms Data / AV / comms Data / AV / comms Data / AV / comms	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Tomp [*0]: Summer 200C wentlation.saphy Comfort Cooling Wentlation.saphy Comfort Cooling At Filtration F7 Supply (80-85%) f7 Supply (80-85%) A Day (2 Night) /HR Piped Services	Temp I*C): Winter ZOOC ZOOC Vinter Vint	Drainage HDPE Chem Resist 	Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en 	Structural Leading Heavy Equipment Eculoment Noise & Vibration sens. Data / AV / Comms Data / Wireless Digital Projection	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Temp 7CL Summer 200C Temp Tolerance 10.50C Ventilation, susply Confrot Cooling Humility 40 ± 10% Air Fitration FJ Supply (80-85%) Min Air Changes 4 Day (2 Night) /JRR	Temp I*C): Winter ZOOC ZOOC Vinter Vint	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230y, trunking 400 volt, 3 Phase Gearers outlets Essential / Standby Power UPS, Central EM Interference Ughting	Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en 	Structural Leading Heavy Equipment Eculoment Noise & Vibration sens. Data / AV / Comms Data / Wireless Digital Projection	Vibration Criteria VC-E - Vertical **
Architectural Notes NGINEERING HVAC Tomp [*0]: Summer 200C wentlation.saphy Comfort Cooling Wentlation.saphy Comfort Cooling At Filtration F7 Supply (80-85%) f7 Supply (80-85%) A Day (2 Night) /HR Piped Services	Temp I*C): Winter ZOOC ZOOC Vinter Vint	Drainage HDPE Chem Resist 	Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en Specialist Equipment* Special Electrical	Structural Loading Heavy Equipment Esuignment Noise & Vibration sens. Data / AV / Comms Data Wireless Data	Vibration Criteria VC-E - Vertical **
Architectural Notes NCINEERING HVAC Temp Ticl: Summer 200C 1 0.50C Ventilation.samh Comfort Cooling Humatity 40 ± 10% Ar Fitration F7 Supply (80-85%) F7 Supply (80-85%) An Ar Changesi 4 Day (2 Night) /HR Piped Services	Temp I*C): Winter ZOOC ZOOC Vinter Vint	Drainage HDPE Chem Resist 	Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en	Structural Leading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / Digital Projection 	Vbration Criteria VC-E - Vertical ** VC-F - Lateral**
Architectural Notes NSINEERING HVAC Temp-fcl: summer 20oC Temp-Tolerance 1 0.5oC Ventilation, susply Confrot Cooling Humitity 40 ± 10% Air_Fitration F7 Supply (80-85%) Min Air(Changes 4 Day (2 Night) /HR Piped Services Compressed Air	Temp (*C): Winter ZooC Temp Valiation Temp (*C): Winter ZooC Temp Valiation to .Soc Ventilation, ashaust General Extract Ait Pressure Regative Airflow Esubment See Lab Equip		Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en Specialist Equipment* Special Electrical Special Electrical Lux Levels SOO Lux Presence Detection	Structural Leading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / Digital Projection 	Vbration Criteria VC-E - Vertical ** VC-F - Lateral**
Architectural Notes KCINEERING HVAC Tang I ^C (1: Summer Tang I ^C (1: Summer Topological	Temp I*C): Winter ZOOC ZOOC Vinter Vint		Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety Security / Life Safety Friements Southerns Friements	Vbration Criteria VC-E- Vertical ** VC-F- Lateral**
Architectural Notes HVAC Temp fCl: Summer 200C Temp Tolerance 1 0.50C Ventilation, susply Confrort Cooling Humidity 40 ± 10% Alr Fittration F7 Supply (80-85%) Min Air Changes 4 Day (2 Night) /HR Fiped Services Water Piped Services Compressed Air Vacuum	Temp (*C): Winter ZooC Temp Valiation Temp (*C): Winter ZooC Temp Valiation to .Soc Ventilation, ashaust General Extract Ait Pressure Regative Airflow Esubment See Lab Equip		Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en Specialist Equipment* Special Electrical Lux Levels SOO Lux Presence Detection Ballast Type DAU (Dimmable)	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / Comms Data / AV / Comm	Vbration Criteria VC-E - Vertical ** VC-F - Lateral**
Architectural Notes KCINEERING HVAC Tang I ^C (1: Summer Tang I ^C (1: Summer Topological	Temp (*C): Winter ZooC Temp Valiation Temp (*C): Winter ZooC Temp Valiation to .Soc Ventilation, ashaust General Extract Ait Pressure Regative Airflow Esubment See Lab Equip		Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en	Structural Leading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety Security / Life Safety Security Systems FrierDatection FrierDatection Smoke Detector	Vbration Criteria VC-E- Vertical ** VC-F- Lateral**
Architectural Notes HVAC Temp fCL Summer 200C Temp Tolerance 1 0.50C Ventilation, susply Confrot Cooling Humitity 40 ± 10% Air Fitration F7 Supply (80-85%) Min Air Changes 4 Day (2 Night) /HR Piped Services Water	Temp (*C): Winter ZooC Temp Valiation Temp (*C): Winter ZooC Temp Valiation to .Soc Ventilation, ashaust General Extract Ait Pressure Regative Airflow Esubment See Lab Equip		Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en Specialist Equipment* Special Electrical Lux Levels SOO Lux Presence Detection Ballast Type DAU (Dimmable)	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety Security / Life Safety Friements Southerns Friements	Vbration Criteria VC-E- Vertical ** VC-F- Lateral**
Architectural Notes HVAC Temp fCL Summer 200C Temp Tolerance 1 0.50C Ventilation, susply Confrot Cooling Humitity 40 ± 10% Air Fitration F7 Supply (80-85%) Min Air Changes 4 Day (2 Night) /HR Piped Services Water	Temp (*C): Winter ZooC Temp Valiation Temp (*C): Winter ZooC Temp Valiation to .Soc Ventilation, ashaust General Extract Ait Pressure Regative Airflow Esubment See Lab Equip		Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en	Structural Leading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety Security / Life Safety Security Systems FrierDatection FrierDatection Smoke Detector	Vbration Criteria VC-E- Vertical ** VC-F- Lateral**
Architectural Notes SINEERING HVAC Temp fCL Summer 200C Temp Tokrance 1 0.50C Ventilation, susply Confort Cooling Humidity 40 1 10% Air Fitration F7 Supply (80-85%) Min Air Changes 4 Day (2 Night) /HR Piped Services Veder Piped Services Veder Piped Services Compressed Air Vacuum Bottled Gases	Temp (*C): Winter ZooC Temp Valiation Temp (*C): Winter ZooC Temp Valiation to .Soc Ventilation, ashaust General Extract Ait Pressure Regative Airflow Esubment See Lab Equip		Operation Manifestations / Film Shelving (non-lab) ts to be confirmed by MEP en	Structural Leading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety Security / Life Safety Security Systems FrierDatection FrierDatection Smoke Detector	Vbration Criteria VC-E- Vertical ** VC-F- Lateral**

ios Lab					Room ID:
LABORATORY FURNIT	URE				
Lab Benching	Туре	Benchtop Material	Depth	Notes	
		÷			
	-				
Other LF Elements	Above Lab Bench		Other Storage Units		
					-
	-	-			-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PT	D included)
					-
LABORATORY EQUIPM	IENT (ASE*)				
				igineering) Significant Equipment *	
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	<u> </u>				-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Cryo EM Microscope***	FEI Titan Krios	1 unit	4500 x 5500 (min req.)	Group 2 (OF-CI)
	-				-

OOM CRITERIA SHE					Room ID:
	Crvo-EM room: to achieve an	nti-vibration criterion as specifi	ed by MFP engineer Accessit	ale via a control room	Department:
	'Buffer' rooms (non-trafficab	le) to separate Cryo-EM faciliti			Level 0
	rooms to be located adjacent				
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	40 nsm		Extended Hours	Compliant	Not Acceptable
Laboratories Only:	Containment	Fumigation	Safety Risks		
caboratories only.	ACDP CL2	No	Biological	<u> </u>	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	Tbd by acoustic engineer	Tbd by acoustic engineer	Туре	Single Door	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	See Plan	-
Construction	Concrete	-	Operation	Swinging	-
Floor Finish	Vinyl, Sheet	-	Door Material	Lead-shielded	-
Skirting	Flooring Coved		Door Finish	Lead Shielded	
Skirting	Hooming Coved	-	Frame Material	Polymos eled	
Destitions	Ture 4 50%	7		Polymer-clad	-
Partitions	Type 1 - 50%	Type 2 - 50%	Frame Finish	-	-
Construction	Blockwork	Anti-vibration shielding	Locks	Access Ctrl + Lock	
Finish	-	Paint	Closers	w/ delayed release	-
Protection	-	-	Vision Pnl	Peephole only	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	-
System	Accessible Grid	-	Other	-	-
Finish	Metal Tile	-			
Features	-	-	Window Coverings	At Facade	Internal
Height	4000mm	-	Туре	-	
inciBite	40001111		Light Control		
Accessories (non-Lab)	Items				
		Notes	Operation	-	-
Accessories (non-cab)					
Accessories (non-Lab)	-		Manifestations / Film	-	-
Accessories (non-Lab)	-				-
Accessories (non-cab)			Manifestations / Film Shelving (non-lab)	- Shelf	- Notes
Architectural Notes		eneral engineering requiremen	Shelving (non-lab)		- Notes
Architectural Notes			Shelving (non-lab)		- Notes
			Shelving (non-lab)		- <u>Notes</u>
Architectural Notes NGINEERING HVAC	- - - Vibration attenuating and ge	eneral engineering requiremen	Shelving (non-lab)	gineer.	- <u>Notes</u>
Architectural Notes		eneral engineering requiremen	Shelving (non-lab)	gineer. Structural	
Architectural Notes VGINEERING HVAC Temp (² C): Summer	- - - Vibration attenuating and ge	eneral engineering requiremen	Shelving (non-lab)	 gineer. Structural	Vibration Criteria
Architectural Notes VGINEERING HVAC Temp (*C): summer 200C Lemp Tolerance	- - - - - - - - - - - - - -	Drainage	Shelving (non-lab)	- gineer. Structural Loading Heavy Equipment Equipment	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WGINEERING HVAC Temp CCI: summer 200C Temp Tolerance ± 0.50C	Contemporation attenuating and get Temp (*C): Winter ZOOC Temp Variation 4.0.50 / Hour	Drainage	Shelving (non-lab)	 gineer. Structural Loading Heavy Equipment	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WGINEERING HVAC Temp (¹ C): summer 20oC Temp Tolerance ±0.5oC Ventilation, supply	- - - - - - - - - - - - - -	Drainage Electrical Power Supply	Shelving (non-lab) ts to be confirmed by MEP en		<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WGINEERING HVAC Temp F(2): Summer 200C Temp Tokrance 4.0.50C Ventilation, supply Confort Cooling	Temp (*C): Winter ZOOC Temp Variation 40.50C / Hour Ventilation, exhaust Ventation, exhaust General Extract	Drainage Electrical Power Supply 230y, trunking	Shelving (non-lab)	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WINEERING HVAC Temp I [*] C1: Summer 200C Temp I [*] C1: Summer 205C Yeritlation, supply Comfort Cooling Humidity	- - - - - - - - - - - - - -	Drainage Electrical Power Supply 230y, trunking 230y, trunking 400 volt, 3 Phase	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WGINEERING HVAC Temp F(2): Summer 200C Temp Tokrance 4.0.50C Ventilation, supply Confort Cooling Humdily 554/-10% RH Centrally ci	Temp (*C): Writer ZOOC Temp Variation attenuating and ge discrete the second	Drainage Electrical Power Supply 230y, trunking 400 volt, 3 Phase Fused Spur	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WGINEERING HVAC Temp Tolerance 205C Temp Tolerance ± 0.5oC Verifiation, supply Comfort Cooling Humdity 554/10% RH Centrally of Ar Filtration	- - - - - - - - - - - - - -	Drainage Electrical Electrical Electrical 2.30, trunking 2.400 volt, 3 Phase Fused Spure F	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Eculament Noise & Vibration sens. Data / AV / Comms Wireless Data	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WGINEERING HVAC Temp TOkrance 40.5oC Ventilition, susplv Confort Cooling Humility 554/-130% RH Centrally of År Fituration F7 Supply (80-85%)	Temp (*C): Writer ZOOC Temp Variation attenuating and ge discrete the second		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WINEERING HVAC Temp fict: Summer 200C 200C 200C 200C 200C 200C 200C 200	- - - - - - - - - - - - - -	Drainage Electrical Electrical Electrical 2.30, trunking 2.400 volt, 3 Phase Fused Spure F	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Eculoment Noise & Vibration sens. Data / AV / Comms Wireless Data / Projection	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WGINEERING HVAC Temp FQL Summer 20oC Temp Tokrance 4.0.5oC Ventilition, susplv Confort Cooling Humidity 554/-1078 RH Centrally co Air Fituation FJ Susply (80-85%) Min Air Changes 4 Day (2 Night) /HR	- - - - - - - - - - - - - -		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Eculament Noise & Vibration sens. Data / AV / Comms Wireless Data	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WINEERING HVAC Temp ficts Jummer 200C 200C 200C 200C 200C 200C 200C 200	- - - - - - - - - - - - - -		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Eculoment Noise & Vibration sens. Data / AV / Comms Wireless Data / Projection	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WGINEERING HVAC Temp FQL Summer 20oC Temp Tokrance 4.0.5oC Ventilition, susplv Confort Cooling Humidity 554/-1078 RH Centrally co Air Fituation FJ Susply (80-85%) Min Air Changes 4 Day (2 Night) /HR	- - - - - - - - - - - - - -		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data Data Data Projection Projection - Projector Screen	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes WINEERING HVAC Temp ficts Jummer 200C 200C 200C 200C 200C 200C 200C 200	- - - - - - - - - - - - - -		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Ecuipment Noise & Vibration sens. Data / AV / Comms Wireless Data / AV / Comms Wireless Data / Projection 	Vbration Criteria VC-E-Vertical ** VC-F- Lateral**
Architectural Notes VGINEERING HVAC Temp fCL: Summer 200C Temp Tokrance 4.0.50C Ventilation, supply Confort Cooling Humidity 554/-10% RH Centrally co Air Fittation F7 Supply (80-85%) Min.Air Changes 4.Day (2 Night) /HR Piped Services Water	- - - - - - - - - - - - - -		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Noise & Vibration sens. Data / AV / Comms Data / AV / Comms Data Data Data Projection Projection - Projector Screen	<u>Vibration Criteria</u> VC-E - Vertical **
Architectural Notes GINEERING HVAC Temp Cicl: Summer 200C Temp Cicl	- - - - - - - - - - - - - -		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Ecuipment Noise & Vibration sens. Data / AV / Comms Wireless Data / AV / Comms Wireless Data / Projection 	Vbration Criteria VC-E-Vertical ** VC-F- Lateral**
Architectural Notes GINEERING HVAC Temp fCL: Summer 200C Temp Tokrance 4.0.50C Ventilation, supply Confort Cooling Humidity 554/-10% RH Centrally of Air Fituation F3 Supply (80-85%) Min.Arc Changes 4 Day (2 Night) /HR Piped Services Water	- - - - - - - - - - - - - -		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Ecuipment Noise & Vibration sens. Data / AV / Comms Wireless Data / AV / Comms Wireless Data / Projection 	Vbration Criteria VC-E-Vertical ** VC-F- Lateral**
Architectural Notes VGINEERING HVAC Temp fQL summer 200C Temp Tokrance 4.0.50C Ventilition, susplv Confort Cooling Humidity 554/-10% RH Centrally co Air Fituration FJ Susply (80-85%) Min.Ar Changes 4 Day (2 Night) /HR Piped Services Piped Services Compressed Air	- - - - - - - - - - - - - -		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Ecuipment Noise & Vibration sens. Data / AV / Comms Wireless Data / AV / Comms Wireless Data / Projection 	Vbration Criteria VC-E-Vertical ** VC-F- Lateral**
Architectural Notes WINEERING HVAC Temp Circl: Summer 200C Temp Soft Summer 200C Temp S	- - - - - - - - - - - - - -	Drainage	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Roise & Vibration sens. Data / AV / Comms Data / AV / Comms Wireless Data / Digital Projection Projector Screen Security / Life Safety Security / Life Safety Security / Systems Fina Detection Fina Detection	Vbration Criteria VC-E-Vertical ** VC-F- Lateral**
Architectural Notes VGINEERING HVAC Temp fQL summer 200C Temp Tokrance 4.0.50C Ventilition, susplv Confort Cooling Humidity 554/-10% RH Centrally co Air Fituration FJ Susply (80-85%) Min.Ar Changes 4 Day (2 Night) /HR Piped Services Piped Services Compressed Air	- - - - - - - - - - - - - -		Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Equipment Noise & Vibration sens. Data / AV/ Comms Data / AV/ Comms Data / AV/ Comms Data Data Projection Projection Projection Security / Life Safety Security / Systems	Vibration Criteria VC-E - Vertical ** VC-F - Lateral **
Architectural Notes WINEERING HVAC Temp Circl: Summer 200C Temp Soft Summer 200C Temp S	- - - - - - - - - - - - - -	Drainage	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Roise & Vibration sens. Data / AV / Comms Data / AV / Comms Wireless Data / Digital Projection Projector Security / Life Safety Security / Life Safety Security / Systems Life Detection Smoke Detector	Vbration Criteria VC-E-Vertical ** VC-F-Lateral**
Architectural Notes WINEERING HVAC Temp Circl: Summer 200C Temp Soft Summer 200C Temp S	- - - - - - - - - - - - - -	Drainage	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Equipment Edubrant Noise & Vibration sens. Data / AV (Comms Wireless Data D	Vibration Criteria VC-E - Vertical ** VC-F - Lateral **
Architectural Notes WINEERING HVAC Temp Circl: Summer 200C Temp Soft Summer 200C Temp S	- - - - - - - - - - - - - -	Drainage	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Roise & Vibration sens. Data / AV / Comms Data / AV / Comms Wireless Data / Digital Projection Projector Security / Life Safety Security / Life Safety Security / Systems Life Detection Smoke Detector	Vbration Criteria VC-E-Vertical ** VC-F-Lateral**
Architectural Notes WINEERING HVAC Temp Circl: Summer 200C Temp Soft Summer 200C Temp S	- - - - - - - - - - - - - -	Drainage	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Equipment Edubrant Noise & Vibration sens. Data / AV (Comms Wireless Data D	Vbration Criteria VC-E-Vertical ** VC-F-Lateral**
Architectural Notes WINEERING HVAC Temp Circl: Summer 200C Temp Soft Summer 200C Temp S	Temp (*C): Writer Zooc Zooc Temp (*C): Writer Zooc Zooc Temp (*C): Writer Zooc	Drainage	Shelving (non-lab) ts to be confirmed by MEP en	Structural Loading Heavy Equipment Equipment Equipment Edubrant Noise & Vibration sens. Data / AV (Comms Wireless Data D	Vbration Criteria VC-E-Vertical ** VC-F-Lateral**

acios/CM200 Lab					Room ID:
LABORATORY FURNIT	JRE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	-	<u> </u>			
	-		-		
Other LF Elements	Above Lab Bench		Other Storage Units		
				·	
		<u> </u>		<u> </u>	
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PTD	included)
	-	<u> </u>		-	-
LABORATORY EQUIPM	IENT (ASE*)				
				ering) Significant Equipment **	
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
					-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Cryo EM Microscope***	Thermo Scientific / Glaci		(refer to design drawings	
	Cryo EM Microscope***	CI CM200	1 unit	(refer to design drawings	Group 2 (OF-CI)
TECHNICAL HUBS

802.01 Medical Resea					abell nepp Issued: 19 Feb 2018	
Preparation Lab	-				Room ID:	Pre
					Department:	
	Preparation Lab for Cryo-EM	work.			Level 0	L
						Li
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light	
	30 nsm		Extended Hours	Compliant	Not Acceptable	0
Laboratories Only:	Containment	Fumigation	Safety Risks			
	ACDP CL2	No	Biological		<u> </u>	
RCHITECTURAL						Li
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2	
	Tbd by acoustic engineer	Tbd by acoustic engineer	Туре	Single Door	-	
Floors	Type 1 - 100%	Type 2 - Not Used	Size	See Plan	-	L
Construction	Concrete	-	Operation	Swinging	-	
Floor Finish	Vinyl, Sheet	-	Door Material	Polymer-clad	-	
Skirting	Flooring Coved	-	Door Finish	-	-	
			Frame Material	Polymer-clad	-	
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	-	-	
Construction	Blockwork	<u>- </u>	Locks	Access Ctrl + Lock	-	
Finish	Paint	<u>-</u>	Closers	w/ delayed release	-	
Protection	-	-	Vision Pnl	Large	-	
			Protection	Kick Plates	-	
Ceiling	<u>Type 1 - 100%</u>	Type 2 - Not Used	Seals	-	-	
System	Accessible Grid		Other	<u>.</u>		
Finish	Metal Tile	<u> </u>				
Features		<u> </u>	Window Coverings	At Façade	Internal	
Height	TBC	<u> </u>	Туре			
	lite and	Notes	Light Control Operation			
Accessories (non-Lab)	Items	Notes	Manifestations / Film			
	<u> </u>		Widniestations / Film	<u> </u>	-	
			Shelving (non-lab)	Shelf	Notes	
	÷		Siterving (non-lab)	<u>anen</u>	NOLES	
Architectural Notes						
Architectural Notes						
NGINEERING						
NGINEERING HVAC		Drainage		Structural		
NGINEERING HVAC Temp (°C): Summer	Temp (°C): Winter	Drainage HDPE Chem Resist	<u>-</u>	Loading	Vibration Criteria	
NGINEERING HVAC Temp ([°] C): Summer 24oC	20oC		<u>-</u>	Loading Lab, normal	Vibration Criteria	
NGINEERING HVAC Temp [² C]: Summer 240C Temp Tolerance	20oC Temp Variation	HDPE Chem Resist		Loading	<u>Vibration Criteria</u> -	
NGINEERING HVAC Temp (°C): Summer 240C Temp Tolerance ± 20C	20oC Temp Variation ± 2oC / Hour	HDPE Chem Resist - Electrical	<u>.</u>	Loading Lab, normal	<u>Vibration Criteria</u> -	
NGINEERING HVAC Temp (°C): Summer 24oC Temp Tolerance ± 20C Ventilation, supply	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust	HDPE Chem Resist - Electrical Power Supply		Loading Lab, normal Equipment -	<u>Vibration Criteria</u>	
NGINEERING HVAC Temp (°C): Summer 240C Temp Tolerance ±20C Ventilation, supply Comfort Cooling	20oC <u>Temp Variation</u> ± 2oC / Hour <u>Ventilation, exhaust</u> General & Dedicated	HDPE Chem Resist - Electrical	<u>.</u>	Loading Lab, normal Equipment - Data / AV / Comms	Vibration Criteria -	
NGINEERING HVAC ZaoC ZaoC Ventilation, supply Comfort Cooling Humidity	20oC <u>Temp Variation</u> ± 20C / Hour <u>Ventilation, exhaust</u> <u>General & Dedicated</u> <u>Air Pressure</u>	HDPE Chem Resist - Electrical Power Supply		Loading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms	<u>Vibration Criteria</u>	
NGINEERING HVAC Temp TOlerance 24oC Ventilation, supply Comfort Cooling Humidity 55+/-10% RH Centrally co	20oC Temp Variation ± 20C / Hour Ventilation, exhaust General & Dedicated <u>Air Pressure</u> or Negative Pressure	HDPE Chem Resist - Electrical Power Supply 230v, trunking		Loading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Data	Wbration Criteria	
NGINEERING HVAC Temp f/cl: summer 24oC Temp Tokrance 4 2oC Ventilation. supply comfort Cooling Humidity 554-1.00k RH Centrally co	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist - Electrical Power Supply		Laading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Data Wireless	Vibratian Criteria	
NGINEERING HVAC Temp TOlerance 24oC Ventilation, supply Comfort Cooling Humidity 55+/-10% RH Centrally co	20oC Temp Variation ± 20C / Hour Ventilation, exhaust General & Dedicated <u>Air Pressure</u> or Negative Pressure	HDPE Chem Resist - Electrical Power Supply 230v, trunking - Essential / Standby Power -	- - - 	Loading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Data	Vbration Griteria	
NGINEERING HVAC Temp Citc. Summer 240C Temp Tokerance + 2 OC Ventilation, supply Ventilation, supply Comfort Cooling Hummitity 554-10% RH Centrally co Afrittration F7 Supply (80-85%) Min Art Charges	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist - Electrical Power Supply 230v, trunking		Loading Lab, normal Equipment 	Vibratian Criteria	
NGINEERING HVAC Temp 2fcl: Summer 24oC Ventilation, supply Confort Cooling Humitity 554/-10% KH Centrally co Air Fitration F7 Supply (80-85%) Min Air Changes	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist - Electrical Power Supply 230v, trunking - Essential / Standby Power -	- - 	Laading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Data Wireless	Vibration Orterta	
NGINEERING HVAC Temp Citc. Summer 240C Temp Tokerance + 2 OC Ventilation, supply Ventilation, supply Comfort Cooling Hummitity 554-10% RH Centrally co Afrittration F7 Supply (80-85%) Min Art Charges	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist	- 	Loading Lab, normal Equipment 	Vibratian Criteria 	
NGINEERING HVAC Imm Cit.: Summer 240C Imm Tokerance + 20C Ventilation, supply Ventilation, supply Comfort Cooling Humidity SS-/-10% RH Centrally co A/FIRtation F7 Supply (80-85%) Min Air Changes 4 A/C/HR (Occupied) Piped Services	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist - Electrical Power Supply 230v, trunking - Essential / Standby Power -	- 	Loading Lab, normal Equipment 	Vibration Orteria	
NGINEERING HVAC Temp 2/ct. Summer 24aC Comfort Cooling Humitiy S5/-105 K H Centrally co Air Fitration F7 Supply (80-85%) Min Air Changes 4 AC/HR (Occupied) Fiped Services Water	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking Essential / Standby Power EM Interference Ughting	- - -	Lab, normal Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / Digital Projection	Vibratian Criteria 	
NGINEERING HVAC Temp 2/ct. Summer 24aC Comfort Cooling Humitiy S5/-105 K H Centrally co Air Fitration F7 Supply (80-85%) Min Air Changes 4 AC/HR (Occupied) Fiped Services Water	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking Essential / Standby Power Utypting Laphting Laphting	- - - Lux Levels	Lab, normal Eaujament 		
NGINEERING HVAC Termp ?Ct: Summer 24oC Comfort Cooling Humitiy S5/-100 R H Centrally co Air Fitation F7 Supply (08-05%) Min Air Changes 4 AC/HR (Occupied) Fiped Services Wad Services Lab CW (Cat 5)	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking Essential / Standby Power EM Interference Ughting Lighting Ceneral Lighting	- - - 500 Lux	Lab, normal Eaujament 		
NOINEERING HVAC Temp Citc. Summer 240C Temp Tokerance + 2 OC Ventilation, supply Comfort Cooling Humidity 554-/10% RH Centrally co A/FIIration F7 Supply (80-85%) Min Ar Changes 4 A/C/HR (Occupied) Piped Services Water Lab CW (Cat 5) -	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking 230v, trunking Essential / Standby Power Essential / Standby Power Ughting Ughting Single Control Gher Lighting	- - 500 Lux Detection	Lab, normal Eaujament 	 Alarm Systems 	
NGINEERING HVAC Termp ?Ct: Summer 24oC Comfort Cooling Humitiy S5/-100 R H Centrally co Air Fitation F7 Supply (08-05%) Min Air Changes 4 AC/HR (Occupied) Fiped Services Wad Services Lab CW (Cat 5)	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230y, trunking 230y, trunking Essential / Standby Power Essential / Standby Power EMInterference Ughting Ughting Ceneral Ughting Switching Smigle Control	- 	Loading Lab, normal Esuigment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Digital Projection Prejector Screen Security / Life Safety Security Systems		
NOINEERING HVAC Temp Citc. Summer 240C Temp Tokerance + 2 OC Ventilation, supply Comfort Cooling Humidity 554-/10% RH Centrally co A/FIIration F7 Supply (80-85%) Min Ar Changes 4 A/C/HR (Occupied) Piped Services Water Lab CW (Cat 5) -	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking 230v, trunking Essential / Standby Power Essential / Standby Power Ughting Ughting Single Control Gher Lighting	- - - - - - - - - - - - - -	Lading: Lab, normal Eatainment Data / AV / Comm Data AV / Comm Data Data / AV / Comm Data Data / KV / Comm Data Data Data / KV / Comm Data Data / KV / Comm Data Data Data / KV / Comm Data Data Data / KV / Comm Data Data Data / KV / Comm Data Data / KV / Comm Data / KV / Comm Data Data / KV / Comm Data	 Alarm Systems 	
NOINEERING HVAC Temp Citc. Summer 240C Temp Tokerance + 2 OC Ventilation, supply Comfort Cooling Humidity 554-/10% RH Centrally co A/FIIration F7 Supply (80-85%) Min Ar Changes 4 A/C/HR (Occupied) Piped Services Water Lab CW (Cat 5) -	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking 230v, trunking Essential / Standby Power Essential / Standby Power Ughting Ughting Single Control Gher Lighting	- 	Ladia: Lab, normal Equinment - - Data / AV / Comms Data / AV / Com	 Alarm Systems 	
NOINEERING HVAC Temp Citc. Summer 240C Temp Tokerance + 2 OC Ventilation, supply Comfort Cooling Humidity 554-/10% RH Centrally co A/FIIration F7 Supply (80-85%) Min Ar Changes 4 A/C/HR (Occupied) Piped Services Water Lab CW (Cat 5) -	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking 230v, trunking Essential / Standby Power Essential / Standby Power Ughting Ughting Single Control Gher Lighting	- - - - - - - - - - - - - -	Lading: Lab, normal Eatannent Data / AV / Comms Data / AV / Comms Data Data / AV / Comms Data Virreless Datal Projection Projector Screen Projector Screen Security / Life Safety Security / Life Safety	 Alarm Systems 	
NOINEERING HVAC Temp Citc. Summer 240C Temp Tokerance + 2 OC Ventilation, supply Comfort Cooling Humidity 554-/10% RH Centrally co A/FIIration F7 Supply (80-85%) Min Ar Changes 4 A/C/HR (Occupied) Piped Services Water Lab CW (Cat 5) -	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking 230v, trunking Essential / Standby Power Essential / Standby Power Ughting Ughting Single Control Gher Lighting	- - - - - - - - - - - - - -	Ladia: Lab, normal Equinment - - Data / AV / Comms Data / AV / Com	 Alarm Systems 	
NOINEERING HVAC Temp Citc. Summer 240C Temp Tokerance + 2 OC Ventilation, supply Comfort Cooling Hummitty 554-/10% RH Centrally co A/FIItation F7 Supply (80-85%) Min Ar Changes 4 A/C/HR (Occupied) Piped Services Water Lab CW (Cat 5) -	20oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated Air Pressure r Negative Pressure Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking 230v, trunking Essential / Standby Power Essential / Standby Power Ughting Ughting Single Control Gher Lighting	- - - - - - - - - - - - - -	Ladia: Lab, normal Equinment Data / AV / Comms Data / AV / Comms D	 Alarm Systems 	
NOINEERING HVAC Temp Citc. Summer 240C Temp Tokerance + 2 OC Ventilation, supply Comfort Cooling Hummitty 554-/10% RH Centrally co A/FIItation F7 Supply (80-85%) Min Ar Changes 4 A/C/HR (Occupied) Piped Services Water Lab CW (Cat 5) -	200C Temp Variation	HDPE Chem Resist Electrical Power Supply 230v, trunking 230v, trunking Essential / Standby Power Essential / Standby Power Ughting Ughting Single Control Gher Lighting	- - - S00 Lux Detection Ballast Type - Emergency Lig Life Safety	Ladia: Lab, normal Equinment Data / AV / Comms Data / AV / Comms D	 Alarm Systems 	

eparation Lab					Room ID:
LABORATORY FURNIT	URE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Fixed Base	Trespa Toplab Base	750mm		
	Bench, Movable	Trespa Toplab Base	750mm		
Other LF Elements	Above Lab Bench		Other Storage Units		
	-	-	-	-	
	-	-	-	-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, F	'TD included)
	Lab Sink	Lab CW (Cat 5)	Standard Handles	-	-
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	-	-
LABORATORY EQUIPN	IENT (ASE*)				
			* ASE = Architecturally (/Engin	eering) Significant Equipment	** O = Owner C = Contract
	Extract Equipment	Name/Model	<u>Ouantity</u>	Size	Furnish - Install**
	Fume Cupboard				
	LN2 Dewar	-	-		-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Carbon Coater				
	Glow Discharge System				

SECTION 4: CBS DESIGN

SCHEDULE OF ACCOMMODATION + DESIGN SUMMARY

The CBS is designed to hold rodents (mice) for experimental purposes. It is not a containment or a breeding facility; these facilities are provided elsewhere on campus. The main research activities for the unit include behavioural, metabolism and in-vivo imaging. Adjacent to the CBS, an ex-vivo suite will be provided consisting of electrophysiology, cardiac and imaging facilities. The CBS shares a small portion of the floor with the mechanical plant for the CryoEM suite below.

Due to building footprint constraints, the CBS is located on the First Floor with its dedicated plant on the Ground Floor below. An interstitial services zone above the CBS was considered but was not required with the Plant below it. The services strategies are designed to minimise need for maintenance personnel to access the critical clean areas within the Unit.

Although security will be important for this type of facility, there is no need for special biosecurity/bioterrorism measures. There is no provision for fumigation in the unit except for VHP capability in the Cage Washer and in the Receiving room.

As described in more detail, staff enter the unit from the South Core via the changing rooms. The ex-vivo is accessed via the North Core. Supplies and waste are transported via the Service Lift near the North Core.

Due to the restricted floor plates, particularly the location of the Cores, the CBS is a double-loaded corridor layout. The activities are grouped by interest; however, the rooms are designed to be flexible for other uses.

The CBS is designed to hold a capacity of 1080 IVC cages and 90 isolator cages. Due to the nature of the research activities, most of the procedure rooms need to be designed where the animals are in open cages (e.g. metabolism cages) and behavioural studies. Further confirmation of protocols related to the staff's protection from allergens is required. Following Imperial College's allergen protocols, the Holding Rooms will contain cage changing stations and the Cage Processing room will utilise a small robotics unit to empty the bases of dirty cages. London Institute of Medical Sciences Medical Research Council (MRC) abell nepp

SCHEDULE OF ACCOMMODATION

TEC	HNOLOGY HUBS (CBS)	Unit	<u>Qty</u>	Total	Unit	<u>Qty</u>	Total	Unit	<u>Qty</u>	Total	
TE G			Orig	inal Brief		Curi	rent Brief	Cu	urrent A	As-drawn	
		(Rev	1.3 - 2	4 Oct 2016)		(09	9 Nov 2017)		(09	9 Nov 2017)	
CBS,	In-vivo and Ex-vivo	Т	otal: 1	,000 nsm		Total:	885 nsm		Total:	869 nsm	
CBS				860 nsm			695 nsm			677 nsm	
In-viv	o Imaging			65 nsm			87 nsm			90 nsm	
Ex-viv	o Procedures			75 nsm			103 nsm			102 nsm	
CBS				: 860 nsm			695 nsm			677 nsm	
HOLD	ING AND PROCEDURES	Hol	d+Pro	c: 515 nsm	ŀ	lold+Prod	c: 382 nsm	Ho	old+Proc	:: 392 nsm	
1.01	Holding Rooms IVCs (mice)	1,300 cages (M+R	1	200 nsm	4 18 racks	4	72 nsm	4 20 racks	4	78 nsm	16 racks; 1,280 cages; 2 change stns; sink, no anterooms
1.02	Isolators (mice)			-	2 24 isolators	1	24 nsm	2 22 isolators	1	22 nsm	2 isolators; 90 cages under further review
	Procedures Rooms				ISUIALUIS			ISUIATOIS			All proc rms with mobile benching, high-level power drops, sinks (not metal), O2, CO2, portable anaesth carts
1.10	General Procedure	10	3	30 nsm	11	3	33 nsm	14	3	42 nsm	One room with down-draft table
1.11	Tissue Culture	15	2	30 nsm	16	2	32 nsm	13	2	25 nsm	One for viral work
1.12	Cardiac (In-vivo)	20	1	20 nsm	16	1	16 nsm	15	1	15 nsm	Echo cardiography, IVC rack
1.13	Electrophysiology (In-vivo)			See Ex-vivo	11	1	11 nsm	11	1	11 nsm	
	Behavioural Suite										Cluster rooms 5.12 - 5.16
1.20	Anteroom			-	11	1	11 nsm	12	1	28 nsm	May be combined for more flexibility
1.21	Watermaze	10	1	10 nsm	16	1	16 nsm	16	1	16 nsm	1.5m pool; base used for other exp, wall drain
1.22	Behavioural apparatus	10	2	20 nsm	16	1	16 nsm	11	1	11 nsm	
1.23	Feeding cage system	10	1	10 nsm	16	1	16 nsm	17	1	17 nsm	BioDac - 4no 16-open cage racks
1.24	Laser room - Optogenetics	10	1	10 nsm	16	1	16 nsm	16	1	16 nsm	 1.5m laser bench; 1.8 x 1.2m laser apparatus table, 6 operant boxes (CPB), laser controls (low- level)
	Metabolism Suite										Cluster rooms 5.12 - 5.16
1.30	Anteroom			-	11	1	11 nsm	12	1	12 nsm	May be combined for more flexibility
1.31	Metabolic procedures	15	1	15 nsm	16	1	16 nsm	16	1	16 nsm	
1.32	Echo MRI	10	1	10 nsm	11	1	11 nsm	12	1	12 nsm	EchoMRI-100TM
1.33	Echocardiography			-	11	1	11 nsm	12	1	12 nsm	Vevo 770, IVC rack
1.34	CLAMS Operating Theatre	10	1	10 nsm	16	1	16 nsm	16	1	16 nsm	2no CLAMS cabinets, environmental chamber, workstation LMS to consider 2 theatres v one large and sharing
1.30	Surgical Room	15	3	45 nsm	16	2	32 nsm	11	2	22 nsm	Pre-Op Wall bencheAuto doors (kick), scrub sinks (or in Pre-op); IVC recovery unit
1.31	Pre-Op Room	15	3	45 nsm	22	1	22 nsm	21	1	21 nsm	
1.32	Recovery Room	15	3	45 nsm							First stage recov in OR, then returned to room)
1.33	Necropsy	15	1	15 nsm							Use procedure rooms
	SUPPORT			t: 130 nsm			t: 108 nsm			t: 101 nsm	
	Office	10	1	10 nsm	11	1	11 nsm	14	1	14 nsm	Outside the barrier
	Archive / Copier	20	1	20 nsm	11	1	11 nsm			ncl in Office	Outside the barrier
	CBS Staff Break Room			ot allocated	18	1	18 nsm	21	1	21 nsm	Required?
1.43	Write-up	4	1	4 nsm	5	1	5 nsm	5	1	5 nsm	Within the barrier
1.44	Change Rooms - Female	30	1	30 nsm	30	1	30 nsm	29	1	29 nsm	Lockers: 5 full-ht and 20 box, shower, WCs
	Change Rooms - Male	30	1	30 nsm	30	1	30 nsm	29	1	29 nsm	Lockers: 5 full-ht and 20 box, shower, WCs
1.46	WCs	6	6	36 nsm	3	1	3 nsm	3	1	3 nsm	Inside barrier (WCs also incl in change rooms)

CBS DESIGN

SCHEDULE OF ACCOMMODATION + DESIGN SUMMARY

ELECTROPHYSIOLOGY

EXISTING

Electrophysiology is currently located on levels 2 and 3 within the CRB. On Level 2, adjacent to the CBS, a combined 'HO-designated room' is provided. Level 3 accommodates an E-Phys rig within a wet lab, with a separate 'HOdesignated' area adjacent this which allows the users to bring animals to/ from the CBS (level 2) prior to carrying out experiments. The Level 2 lab combines in-vivo and ex-vivo work; the users agreed that in-vivo work should carried out within the CBS barrier.

The users have four rigs in total; one for in-vivo and three for ex-vivo work; proximity to a central freezer store is essential. Currently preparatory work is performed in the main lab, but due to its nature, anyone in the room is not allowed to enter another lab for 48 hours. Therefore a 'HO-designated' ex-vivo prep lab should be provided but be separated from the main lab.

The E-Phys rigs use Faraday Cages; they are sensitive to vibration and noise and need to be considered in the location and design of the room. The rooms are laser-designated; electrical mains are to be independent to the rest of the building with earthing provisions to each room; specific static dissipative (SD) vinyl is not required.

PROPOSED

An in-vivo electrophysiology room will be provided within the CBS barrier as a standalone function. The ex-vivo Electrophysiology Suite will be located outside the CBS barrier and will contain the separated HO-designated prep lab. The prep room will be fumigable.

The main lab will accommodate 3 E-Phys rigs with ample space for bench-ing. Each rig consists of a ventilated table and faraday cage, equipment rack and workbench with monitor. The preparation room will require a fume hood.

Natural light has been requested, although the windows will require mani-festation on them, and blinds/curtains required around some rigs to allow darkenable experiments to take place.

CBS S	UPPORT	CBS SL	JPPORT	1: 215 nsm	CBS SU	JPPORT	: 205 nsm	CBS SU	PPORT	: 184 nsm	
1.50	Animal Receiving			-	16	1	16 nsm	16	1	16 nsm	Fumigable
1.51	Cage Wash Dirty	100	1	100 nsm	40	1	40 nsm	43	1	43 nsm	robot cage change (3.5mx4m), rack washer (with VPN?), semi-automatic bottle decapper / empty station; 1 autoclave
1.52	Cage Wash Clean		Inclu	ded in CWD	40	1	40 nsm	38	1	38 nsm	bedding fill station, bottle fill station
1.53	Clean Supplies	35	1	35 nsm	22	1	22 nsm	20	1	20 nsm	
1.54	Clean Warehouse			-	60	1	60 nsm	51	1	51 nsm	
1.55	Supplies / Equipment	25	1	25 nsm		Inclu	ided above		Inclu	uded above	Unused equipment
1.56	Feed Store	25	1	25 nsm		Inclu	ided above		Inclu	uded above	Palleted, Include refrigeration for diet
1.57	Bedding Store	25	1	25 nsm		Inclu	ided above		Inclu	uded above	Palleted
1.58	VHP Fumigation Equipment			-	6	1	6 nsm				For use in holding rooms and receiving only
1.59	Laundry / Coat Store	5	1	5 nsm	5	1	5 nsm		Incl i	n Changing	near staff changing area
1.60	Cleaners			Incl above	5	1	5 nsm	5	1	5 nsm	
1.61	Waste Holding		1	-	11	1	11 nsm	11	1	11 nsm	Short term holding
1.62	Bedding Waste (external)		1	-			External			External	External vacuum extract (4mx4m for clear working)
1.63	Secure Unloading Space	In o	verall b	uilding area	In c	verall bu	ilding area	In o	verall bu	uilding area	Requires further discussion; H2 can be used, but transpoerting animals between buildings not clear
In-vi	vo Imaging Suite		Tot	al: 65 nsm		Tota	ıl: 87 nsm		Tota	al: 90 nsm	located inside CBS Barrier
2.01	2-photon microscopy	15	1	15 nsm	16	1	16 nsm	18	1	18 nsm	1no 2-photon microscope
2.02	Imaging Prep	10	1	10 nsm	11	1	11 nsm	11	1	11 nsm	
2.03	Photoacoustic Imaging	10	1	10 nsm	16	1	16 nsm	16	1	16 nsm	2no Vevo Lazr w/ workstations, tunable laser
2.04	Optical Imaging- IVIS	10	1	10 nsm	11	1	11 nsm	16	1	16 nsm	2no IVIS Spectums w/ workstations
2.05	New Technologies	10	2	20 nsm	11	2	22 nsm	17	1	17 nsm	
2.06	Consumables			-	11	1	11 nsm	12	1	12 nsm	
Ex-vi	vo Procedures		Tot	al: 75 nsm		Total	: 103 nsm		Total	: 102 nsm	located outside of CBS
3.00	Electrophysiology (slice)	5	15	75 nsm	44	1	44 nsm	38	1	38 nsm	4 E-phys rigs and vibratome
3.01	Ephys Prep Lab			-	11	1	11 nsm	11	1	11 nsm	MSC
3.02	Optical Projection Tomography			-	16	1	16 nsm	17	1	17 nsm	Bespoke OPT
3.03	Cardiac Perfusion			-	16	1	16 nsm	18	1	18 nsm	Lagendorf, IVC Station
3.04	Cardiac Perfusion / Surgery			-	16	1	16 nsm	18	1	18 nsm	MSC, perfusion station, surgical station, myography instrumentation

CBS DESIGN ZONING DIAGRAM

Diagram below shows designated zones for cleanliness management and access protocols for animals and materials deliveries and routine staff.

RESTRICTED CLEAN ZONE

Operating suites, holding and procedure rooms are located within the 'Restricted Clean Zone'. This area is restricted to principal personnel including CBS research staff and visiting researchers. Gowning protocols are enforced from the entry changing areas and throughout the facility.

The highest level of cleanliness occurs within the holding rooms where animals are housed within Individually Ventilated Cages (IVCs) or Isolators animals are housed within Individually Ventilated Cages (IVCs) or Isolators which are ventilated via HEPA-filtered fan units. The supply air to all rooms containing animals will be filtered using E-9 filters. The operating suites will The Changing Rooms are the primary access point for people, visitors and changing rooms; they enter through secure interlocked lobbies.

The zone maintains positive pressure to the adjoining negative pressure zones. The air will naturally flow from the higher-pressure zone to lower

fected, including supplies that arrive from outside the unit, or cages that

The Cage Processing area is accessed by technical staff only. The clean zone contains equipment and supplies that are clean but not necessarily disin-

pressure, preventing contaminated air from entering into the restricted

clean zone. Within the zone, the procedure and holding rooms are negative to the corridor. Vestibules are used to enable positive pressure in some

procedure rooms; this is similar with Pre-Op and the surgical rooms.



GREY ZONE

PROPOSED PLAN - ZONING DIAGRAM (LEVEL 1)



ZONING DIAGRAM LEGEND Restricted Clean Zone Grey Zone Dirty Processing Within Grey Zone

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CBS DESIGN FLOW DIAGRAM - PERSONNEL

Most personnel (researchers and CBS technical staff) will enter the CBS from the atrium and south circulation core. Technical staff may enter the CBS from the North core which directly links to the service yard and delivery bays at ground floor below. CBS staff and researchers enter the unit via changing areas at Level 1 to gown before entering the Restricted Clean Zone.

Aside from emergency only exit doors out of the CBS, secure interlocked vestibules are at entry and exit points.

Outside of the CBS Suite is the ex-vivo suite of electrophysiology, cardiac and neurophysiology spaces. This group can access the floor for ex-vivo services without needing to go through the gowning protocols.





Ex - Vivo Suite

PROPOSED PLAN - PERSONNEL FLOW DIAGRAM (LEVEL 1)

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CBS DESIGN

FLOW DIAGRAM - SUPPLIES AND WASTE

Deliveries arrive through the secure service yard for the building at Ground Floor. Unloading is on-grade; there is not a raised loading dock. There are three access points into the BSU: clean supplies, outgoing waste and animal deliveries. Each is secured with interlocking doors/vestibules, and access control.

CLEAN SUPPLIES

Supplies enter through the secured 'receiving' vestibule where they are unpacked and disinfected as required. The supplies move to the clean warehouse where food, bedding, supplies and equipment are held. All supplies and equipment entering the 'Restricted Clean Zone' are delivered into the Cage Processing Room where they may be autoclaved or VHP'd.

WASTE SUPPLIES

Soiled cage racks are collected and moved into the Cage Processing room for washing. Cage bases are are emptied by the robotic cage emptying station with the bedding waste transported by vacuum tube to a secured waste bins in the floor below in the deliveries area. Other waste is bagged and held in the Waste Holding vestibule before being transported to the central bin holding area (via services lift) in the LMS service yard/bay.

ANIMALS

Animals are brought into the CBS via the services lift from Ground Floor secured vehicle bay. New animals will initially be delivered to another building on the Hammersmith site and transported in a smaller vehicle, to the secure and enclosed LMS vehicle bay at Ground Floor. The animals delivered in secure boxes, are brought into the secure 'receiving' vestibule where the boxes can be wiped down with disinfectant. No animals will return to the unit once they leave it.



WASTE AND SUPPLIES FLOW DIAGRAM LEGEND

	cicannoute
_	Dirty Route
	CBS Unit Boundary
	Ex - Vivo Suite

PROPOSED PLAN - SUPPLIES/WASTE FLOW DIAGRAM (LEVEL 1)

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CBS - EX-VIVO ELECTROPHYSIOLOGY



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	(20)				Room ID:
lectrophysiology (sli		design of a second s			CBS Ex-Vivo
	Laser designated room for st	udies of synapse or neural cir	cuits.		First Floor
					FILSCFIDO
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	44 nsm	3 nsm	Full 24 hour use	Compliant	Desirable
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological/Chem		-
RCHITECTURAL Sound Attenuation			Doors		
Sound Attenuation	Intern Ambient Noise (dBA) See arch. note below	Mechanical Noise (NR) See arch. note below	Type	Type 1 Door + Half Leaf	Type 2
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	
Construction	50mm Screed	Type 2 - Not Oseu	Operation		
Floor Finish	Vinyl	<u> </u>	Door Material	Swinging Timber- Solid Core	
Skirting	150mm coved	<u> </u>	Door Finish	HPL	-
Skirtung	130mm coved	<u> </u>	Frame Material	Timber	-
Partitions	Type 1 - 100%	Tore 7. Manufaced	Frame Finish		-
Construction	Blockwork	Type 2 - Not Used	Frame Finish Locks	Painted Key Lock& Thumb Turn	-
Finish		<u>. </u>	Closers		-
Protection	Sikaguard Coating Wall Guard	<u> </u>	Vision Pnl	Closer Yes	-
Protection	Wall Guard	<u> </u>			-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-
System	Special System	<u>·</u>	Other	Light-tight	-
Finish	Special Details	<u>·</u>			
Features	Washable	<u>+</u>	Window Coverings	At Façade	Internal
Height	-	<u>+</u>	Туре	Blinds	-
-			Light Control	Anti Glare / Black Out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
-	Items Blackout Curtains	Notes			-
-		Notes	Operation Manifestations / Film	Manual Privacy	-
Accessories (non-Lab)	Blackout Curtains	consultant to advise on Soun	Operation	Manual Privacy Shelf	- - <u>Notes</u> inimum. Clear opening
-	Blackout Curtains Sound Attenuation: Acoustic	consultant to advise on Soun	Operation Manifestations / Film Shelving (non-lab)	Manual Privacy Shelf	
Accessories (non-Lab)	Blackout Curtains Sound Attenuation: Acoustic	consultant to advise on Soun	Operation Manifestations / Film Shelving (non-lab)	Manual Privacy Shelf	
Accessories (non-Lab) Architectural Notes	Blackout Curtains Sound Attenuation: Acoustic	consultant to advise on Soun	Operation Manifestations / Film Shelving (non-lab)	Manual Privacy Shelf	
Accessories (non-Lab) Architectural Notes	Blackout Curtains Sound Attenuation: Acoustic	consultant to advise on Soun L200 mm.	Operation Manifestations / Film Shelving (non-lab)	Manual Privacy Shelf - opening of full leaf 800 mm m	
Accessories (non-Lab) Architectural Notes NGINEERING HVAC	Blackout Curtains	consultant to advise on Soun 200 mm.	Operation Manifestations / Film Shelving (non-lab)	Manual Privacy <u>Shelf</u> opening of full leaf 800 mm m Structural	inimum. Clear opening
Accessories (non-Lab) Architectural Notes VGINEERING HVAC Temp(°C): Summer	Blackout Curtains	consultant to advise on Soun 200 mm.	Operation Manifestations / Film Shelving (non-lab)	Manual Privacy Shelf - opening of full leaf 800 mm m Structural Loading	inimum. Clear opening
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Accessories (non-Lab) Architectural Notes VGINEERING HVAC Temp (?o): Summer 22oC temp toreance ± 20C Verifikation, supply	Blackout Curtains	Consultant to advise on Soun Consultant to advise on Soun Drainage HDPE Chem Resist	Operation Manifestations / Film Shelving (non-lab) d Attenuation. Doors: ** Clear	Manual Privacy Sheff 	inimum. Clear opening
Accessories (non-Lab) Architectural Notes VGINEERING HVAC Temp (² C): Summer 22oC Temp Tolerance ± 2oC	Blackout Curtains Blackout Curtains	consultant to advise on Soun 200 mm. Drainage HDPE Chem Resist 	Operation Manifestations / Film Shelving (non-lab)	Manual Privacy Shelf - opening of full leaf 800 mm m Structural Loading Lab, normal Eaviement	inimum. Clear opening
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Accessories (non-Lab) Architectural Notes WGINEERING HVAC Temp [70]: Summer 22oC Temp Tokrance 4 20C WentBatton, supply Comfort Cooling Humility 50/-15% RH	Blackout Curtains Blackout Curtains	Consultant to advise on Soun Consultant to advise on Soun Drainage HDPE Chem Resist Electrical Power South Cleaners outlets Cleaners outlets Fuesd Spur, see plan	Operation Manifestations / Film Shelving (non-lab) d Attenuation. Doors: ** Clear 	Manual Privacy Sheff 	inimum. Clear opening
Accessories (non-Lab) Architectural Notes VGINEERING HVAC Immp ² (0): Summer 220C yentlation, supply Comfort Cooling Humidity	Blackout Curtains	Consultant to advise on Soun 200 mm. Drainage HDPE Chem Resist Electrical Power Supply 230v, see plan (Cleaners outlets)	Operation Manifestations / Film Shelving (non-lab) d Attenuation. Doors: ** Clear 	Manual Privacy Sheff General Government Structural Loading Lab, normal EMI & Vibration sens. Data / AV / Comms Data / Co	inimum. Clear opening
Accessories (non-Lab) Architectural Notes WGINEERING HVAC Temp for: Summer 22oC Temp Tokrance ± 20C Wentiliton, supply Comfort Cooling Humility 504/-15% RH Art Filtration H10	Blackout Curtains Blackout Curtains	Consultant to advise on Sourn Consultant to advise on Sourn Drainage HDPE Chem Resist Electrical Power Sourch Cleaners outlets Fuesd Spury, see plan Executial / Standby Power	Operation Manifestations / Film Shelving (non-lab) d Attenuation. Doors: ** Clear 	Manual Privacy Sheff 	inimum. Clear opening
Accessories (non-Lab) Architectural Notes VGINEERING HVAC Lemm_f^O): Summer 220C Unit Summer 220C Ventilation, supply Ventilation, supply 20of_15% RH Juniality 504/_15% RH H10 Min.Ar.Charges	Blackout Curtains	Consultant to advise on Soun Consultant to advise on Soun Drainage HDPE Chem Resist Electrical Power South Cleaners outlets Cleaners outlets Fuesd Spur, see plan	Operation Manifestations / Film Shelving (non-lab) d Attenuation. Doors: ** Clear 	Manual Privacy Sheff General General Control C	inimum. Clear opening
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Accessories (non-Lab) Architectural Notes VGINEERING HVAC Imm_f*O: Summer 220C Unit Statement 20C Confort Cooling Humality 504/155% RH H10 MinAr Charges 17 AC/IR (Occupied) 17 AC/IR (Occupied) 17 AC/IR (Occupied) 17 AC/IR (Occupied)	Blackout Curtains	Consultant to advise on Sourm Consultant to advise on Sourm Drainage HDPE Chem Resist F Electrical Prover Supply 230v, see plan Cleaners outlets Fued Spur, see plan Esential / Standar Prover Electrical Hoterference Electrical	Operation Manifestations / Film Shelving (non-lab) d Attenuation. Doors: ** Clear 	Manual Privacy Sheff General General Control C	inimum. Clear opening
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Accessories (non-Lab) Architectural Notes UNINEERING HVAC Temp f°O: Summer T200C Temp for Summer T200C Temp for tooling Humidty S0r-1-55% RH dur Fitnation H10 Min Ar Changes 17 AC/HR (Occupied) Fiped Services Water Lab CW & HW RO Water-Local Piped Services	Blackout Curtains Blackout Curtains	Consultant to advise on Sourm Consultant to advise on Sourm Drainage HDPE Chem Resist Electrical Prover Supply 230x, see plan Cleaners outlets Fued Spury, see plan Escential/Standar Prover Ughting Ughting General Lighting Sentehnia	Operation Manifestations / Film Shelving (non-lab) d Attenuation. Doors: ** Clear	Manual Privacy Sheff Gening of full leaf 800 mm m Structural Loading Lab, normal Edit & Vibration sens. Data / AV / Comms Data Digital Projection Projector Screen Security / Life Safety	Vibration Criteria
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Accessories (non-Lab) Architectural Notes SIGNEERING HVAC Temp 200C Temp 200C Temp 200C Architectural Notes # 200C Variation supply Comfort Cooling Humdby S0/-1558 RH Ar Bration H10 S0/-1558 RH BOW Water - Local Botter - Local Fiped Services Nitrogen Vacuum	Blackout Curtains Blackout Curtains	Consultant to advise on Sourn Consultant to advise on Sourn Drainage HDPC Chem Resist	Operation Manifestations / Film Shelving (non-lab) d Attenuation. Doors: ** Clear	Manual Privacy Sheff - opening of full leaf 800 mm m Structural Loading Loading Loading Loading Loading Loading Loading Data / NV / Comms Data Privetor Screen - Security / Ufe Safety Security / Ufe Safety Access Control - Fire Datection	Vibration Criteria Vibration Criteria Alarm Systems
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Accessories (non-Lab) Architectural Notes IGINEERING HVAC Temp Torison Summer 220C Temp Torisons 4 20C Ventilation, supply Comfort Cooling Humdity S0-/15/8 HH Ar Ilitration H10 Vantarion H10 Piped Sorvices Vatar Lab CW & HW Vatar Lab CW	Blackout Curtains Blackout Curtains	Consultant to advise on Sourn Consultant to advise on Sourn Drainage HDPC Chem Resist	Operation Manifestations / Film Shelving (non-lab) d Attenuation. Doors: ** Clear 230v, trunking TPN toolator Sercial Electrical Unu Levels S00 Lux Detection Balliast Tuge DALI (Dimmable)	Manual Privacy Sheff - opening of full leaf 800 mm m Structural Loading Loading Loading Loading Loading Loading Loading Data / NV / Comms Data Privetor Screen - Security / Ufe Safety Security / Ufe Safety Access Control - Fire Datection	Vibration Criteria Vibration Criteria Alarm Systems

ectrophysiology (Room ID:
LABORATORY FURNIT	Type Bench, Special	Benchtop Material Trespa, TopLab+	Depth 750mm	<u>Notes</u> E-Phys PC bench (nom.	1000mm wide)
Other LF Elements	Above Lab Bench Shelving, wall mtd		Other Storage Units Underbench Cabinet		
Lab Sinks	Sink Type Sink- Epoxy (integral) Wash Hand Basin	Water Source Lab CW (Cat 5) Lab CW & HW	Taps Lever Handle (mixer) Hands-free (sonar)	Accessories (assume SD, PT Splash Pnl & Dry Rack Lab Safety Eye Wash	D included)
LABORATORY EQUIPM	1ENT (ASE*)				
	Extract Equipment Downdraft table Electronic Rack	Name/Model	* ASE = Architecturally (/Engine Quantity 3 Relocated 3 Relocated	ering) Significant Equipment	** O = Owner C = Contr <u>Furnish - Install**</u> Group 2 (OF-CI) -
	Equipment - -	Name/Model	<u>Quantity</u>	Size	Eurnish - Install** - -

DOM CRITERIA SHE	61				
Phys Prep Lab					Room ID:
	Laser designated preparation	a lab supporting Slice Electrop	hysiology. HO-Designated room	n.	CBS Ex-Vivo
					First Floor
				I	
NERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	11 nsm	2nsm	Full 24 hour use	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	Yes	Biological/Chem	Noise	-
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	<u></u>	Operation	Swinging	-
Floor Finish	Vinyl	<u> </u>	Door Material	Timber- Solid Core	-
Skirting	150mm coved	<u>.</u>	Door Finish	HPL	-
			Frame Material	Timber	
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	
Construction Finish	Blockwork	<u>. </u>	Locks Closers	Access Ctrl + Lock	-
Protection	Sikaguard coating	<u></u>	Vision Pnl	Closer	-
Protection	Wall + Corner Guards	<u></u>	Protection	Large Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	- Fumigation
System	Special System	Type 2 - Not Osed	Other	Light-tight	rumgation
Finish	Special Details	<u> </u>	other	Light-Light	-
Features	Washable	<u> </u>	Window Coverings	At Facade	Internal
Height	Washabic		Туре	Blinds	-
neight			Light Control	Anti Glare / Black Out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
	Coat Hooks		Manifestations / Film	Privacy	-
	Whiteboard		,,		-
	-		Shelving (non-lab)	Shelf	Notes
Architectural Nator	- Sound Attention: Acoustic co and half between 1000-1200		Shelving (non-lab) Attenuation. <i>Doors:</i> ** Clear op		
Architectural Notes			,		
IGINEERING		mm.	,		
IGINEERING HVAC	and half between 1000-1200	nm. Drainage	,	 pening of full leaf 800 mm mir Structural	imum. Clear opening
IGINEERING HVAC Temp (°C): Summer	and half between 1000-1200 Temp1 ^o C): Winter	nm. Drainage HDPE Chem Resist	,		
GINEERING HVAC Temp (°C): Summer 22oC	and half between 1000-1200	nm. Drainage	,	- ening of full leaf 800 mm mir Structural Loading Lab, normal	imum. Clear opening
GINEERING HVAC <u>Temp (</u> °C): Summer 220C <u>Temp Tolerance</u>	and half between 1000-1200 <u>Temp (</u> ^o C): Winter <u>22oC Temp Variation </u>	mm. Drainage HDPE Chem Resist Floor Drain	,		imum. Clear opening
GINEERING HVAC 220C Temp I ^o C): Summer 220C	and half between 1000-1200 Temp (°C): Winter 220C Temp Value ± 20C / Hour	mm. Drainage HDPE Chem Resist Floor Drain Electrical	,	- ening of full leaf 800 mm mir Structural Loading Lab, normal	imum. Clear opening
GINEERING HVAC Temp_I°C): Summer 22oC Temp Tolerance ± 20C Ventilation, supply	and half between 1000-1200 Temp (^o C): Winter 22oC Temp Variation + 2OC / Hour Ventilation, exhaust	mm. Drainage HDPE Chem Resist Floor Drain Electrical Power Supply	Attenuation. Doors: ** Clear op		imum. Clear opening
GINEERING HVAC <u>Temp1</u> °C): Summer <u>22oC</u> <u>1 femp Tolerance</u> <u>± 2oC</u> <u>Ventilation, supply</u> Comfort Cooling	and half between 1000-1200 Temp (°C): Winter 22oC Temp Variation ± 2oC / Hour Ventilation, exhaust General Extract	mm. Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan	Attenuation. Doors: ** Clear op	Common contract of the second memory of full leaf 800 mm min Structural Laading Lab, normal Suupment Data / AV / Comms	imum. Clear opening
GINEERING HVAC Temp[CC): Summer 22oC Temp Tolerance ± 2oC Yentilation, supply Comfort Cooling Humidity	and half between 1000-1200 <u>Temp (²C)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>2 2 2 0 C</u> <u>Verifiation exhaust</u> <u>General Extract</u> <u>dir Pressure</u>	mm. Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230x, see plan Cleaners outlets	Attenuation. Doors: ** Clear op	Structural Loading Lab, normal Sugment Data / AV / Comms	imum. Clear opening
GINEERING HVAC 220C Temp Tolerance ± 20C Ventilation, supply Comfort Cooling Humidity 504/-135 RH	and half between 1000-1200 Temp (² C): Winter <u>22oC</u> <u>12mm Variation</u> <u>4:2oC / Hour</u> <u>Verifiation, exhaust</u> <u>General Extract</u> <u>Air Frissure</u> Negative Airflow	mm. Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230y, see plan Cleaners outlets Fused Spur, see plan	Attenuation. Doors: ** Clear op	Structural Lab, normal Saurent Data / AV / Comms Data	imum. Clear opening
GINEERING HVAC 220C Temp Tokrance ± 20C Ventilation, supply Comfort Cooling Humidity S04-155 kRH 4/F fittration	and half between 1000-1200 <u>Temp 0</u> ² C): Winter <u>220C</u> Viour <u>4 20C (Hour</u> <u>4 20C (Hour</u> <u>94 Official Constants</u> <u>6 General Extract</u> <u>Mit Pressure</u> <u>Negative Airflow</u> <u>Eugliment</u>	mm. Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230x, see plan Cleaners outlets	Attenuation. Doors: ** Clear op	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms	imum. Clear opening
GINEERING HVAC 220C Temp Tolerance ± 20C Ventlation, supply Comfort Cooling Humidity 50+/-15% RH Air fittation H10	and half between 1000-1200 Temp (² C): Winter <u>Z2oC</u> <u>Temp Variation</u> <u>± 2oC / Hour</u> <u>Verifiation, exhaust</u> <u>General Extract</u> <u>Air Frissure</u> Negative Airflow	mm. Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spur, see plan Essential/Standby Power	Attenuation. Doors: ** Clear op	Structural Lab, normal Saurent Data / AV / Comms Data	imum. Clear opening
GINEERING HVAC ZaCC Temp Tokrance ± 2oC Ventilation, supply Comfort Cooling Humidity Soly-155k RH Air Filtration H10 Min Air Charges	and half between 1000-1200 <u>Temp 0</u> ² C): Winter <u>220C</u> Viour <u>4 20C (Hour</u> <u>4 20C (Hour</u> <u>94 Official Constants</u> <u>6 General Extract</u> <u>Mit Pressure</u> <u>Negative Airflow</u> <u>Eugliment</u>	mm. Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230y, see plan Cleaners outlets Fused Spur, see plan	Attenuation. Doors: ** Clear op	Structural Lading Lab, normal Eadingment Data / AV / Comms Data / AV / Comms Data Data / Comms Data Data / Comms Data Data / Comms Data Data Data Data Data Data Data Data	imum. Clear opening
GINEERING HVAC 220C Temp Tolerance ± 20C Ventilation, supply Comfort Cooling Humidity 50+/-15% RH Air fittation H10	and half between 1000-1200 <u>Temp 0</u> ² C): Winter <u>220C</u> Viour <u>4 20C (Hour</u> <u>4 20C (Hour</u> <u>94 Official Constants</u> <u>6 General Extract</u> <u>Mit Pressure</u> <u>Negative Airflow</u> <u>Eugliment</u>	mm. Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spur, see plan Essential/Standby Power	Attenuation. Doors: ** Clear op	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms	imum. Clear opening
GINEERING HVAC Lemp Cols Summer 220C Gentration Supply Ventilation, supply Gomfort Cooling Humidity 504/-155 RH Air Filtration H10 Min Alc Changes J A C/HR (Occupied)	and half between 1000-1200 <u>Temp 0</u> ² C): Winter <u>220C</u> Viour <u>4 20C (Hour</u> <u>4 20C (Hour</u> <u>94 Official Constants</u> <u>6 General Extract</u> <u>Mit Pressure</u> <u>Negative Airflow</u> <u>Eugliment</u>	mm. Drainage HDPE Chem Resist Floor Drain Electrical Powr Supply 2304, see plan Cleaners outles Fued Styru see plan Esertial / Standay Dower Emittal for and your see the Interference Int	Attenuation. Doors: ** Clear op	Structural Lading Lab, normal Eadingment Data / AV / Comms Data / AV / Comms Data Data / Comms Data Data / Comms Data Data / Comms Data Data Data Data Data Data Data Data	imum. Clear opening
GINEERING HVAC Temp (2): Summer 220C Temp Tolerance ± 20C Ventilation, supply Comfort Cooling Humidity 504-1558 RH 417 fittration H10 Min Air Charges 17 AC/HR (Occupied) Piped Services	and half between 1000-1200 <u>Temp 0</u> ² C): Winter <u>220C</u> Winter <u>220C</u> Vour <u>420C</u> (Hour <u>9407618100</u> , eshaust <u>General Extract</u> <u>Mit Pressure</u> <u>Negative Airflow</u> <u>Euglonent</u>	mm. Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spur, see plan Essential/Standby Power	Attenuation. Doors: ** Clear op	Structural Lading Lab, normal Eadingment Data / AV / Comms Data / AV / Comms Data Data / Comms Data Data / Comms Data Data / Comms Data Data Data Data Data Data Data Data	imum. Clear opening
GINEERING HVAC Temp/CP: Summer 220C Emm Tolerance ± 20C Comfort Cooling Humalik Comfort Cooling Humalik Comfort Cooling Humalik Ar Fination Ha0 Min Ar Cannes 17 AC/HR (Cocupied) Piped Services Water	And half between 1000-1200 Temp (°C): Winter 22oC Temp Variation 22oC Ventition, exhaust General Extract dir Pressure Negative Airflow Equipment See Lab Equip -	mm. Drainage HDPE Chem Resist Floor Drain Electrical Prover Supply 2300, see plan Cleaners outles Fueed Soyn, see plan Electrical Fueed Soyn, see plan Electrical Cleaners outles Ughting Ughting Libbing	Attenuation. Dears: ** Clear op	structural isotation isotation	imum. Clear opening
GINEERING HVAC Trong, ² O: Summer 22oC Timp, ² O: Summer 22oC Timp, ² O: Summer 22oC Timp, ² O: Summer 2007 50/1578 RH Auf Tratago H10 MnA/Canaes 17 AC/HR (Occupied) Piped Service Vale: Lab CW 8 HW	And half between 1000-1200 Temp (°C): Winter 22oC Temp Variation 22oC Ventition, exhaust General Extract dir Pressure Negative Airflow Equipment See Lab Equip -	mm. Drainage HDPE Chem Resist Floor Ender Resist Electrical Power Sought Zaloy, see plan Ceaners outlets Funed Spury, see plan Essential / Standby Power Edi Interference Edi Interference Ughting	Attenuation. Dears: ** Clear op	Commentation Structural Lab, normal Easignment Data / AV / Comms Data / Com	Vibration Criteria
GINEERING HVXC Trans_CO: Summer 226C Time_Colong 1 20C Comfort Cooling Without Cooling 1 20C Man Arc Cooling 1 20C 1 2	And half between 1000-1200 Temp (°C): Winter 22oC Temp Variation 22oC Ventition, exhaust General Extract dir Pressure Negative Airflow Equipment See Lab Equip -	mm. Drainage HDPE Chen Resist Floor Drain Electrical Power Sough Cleaners outlets Fund Spury, see plan Cleaners outlets Fund Spury, see plan Exertial Standay Dower Edi Interference Lighting L	Attenuation. Dears: ** Clear op	structural isotation isotation	Vibration Criteria
GIVERING HVAC Transf ² C1: Summer 22aC Transf ² C1: Summer 22bC Comfort Cooling Humidity Solv/15/8 RH Ar Fittation H10 Mn/ar Charges 17 AC/HR (Cooped) Piped Services Water Lab CW 8 HW Lab CW 6 HW	Ind half between 1000-1200 Temp (*C): Winter 220C Temp Variation t	mm. Drainage HOPE Chem Resist Floor Drain Floor Drain Electrical Power Stoppin Zdaners outlets Tued Spury see plan Essential Standby Power Minterference Uphting Statistica Single Control	Attenuation. Dears: ** Clear op	Structural Lab, normal Easignment Data / AV / Comms Security / Life Safety Security Security / Life Safety Security / Life Safety Security / Life Safety Security Security Security / Life Safety Security Security Security / Life Safety Security Security	Vibration Criteria
GINEERING HVXC Trans_7C1: Summer 220C Temp1201: Summer 220C 2000 2000 2000 2000 2000 2000 200	Ind half between 1000-1200 Temp (*C): Winter 220C Temp Variation t	mm. Drainage HDPE Chem Resist Floor Drain Floor Drain Electrical Perent Suigh Zaho, see plan Lacelal J Sanday Rower Lacelal J Sanday Rower Lacelal J Sanday Rower Lighting General Lighting Sanday Lighting Sanday Lighting Sanday Lighting	Attenuation. Dears: ** Clear op	structural isotation isotation	Vibration Criteria Vibration Criteria
GINEERING HVXC Trans_7C1: Summer 22aC Trans_7C2: Summer 22bC Comfort Cooling Winstation, supply Comfort Cooling Winstation H10 Min Air Cooling J AC/HR (Cooped) Piped Services Water Lab CW A: HW Lab CW (A: 5) Piped Services	Ind half between 1000-1200 Temp (*C): Winter 220C Temp Variation t	mm. Drainage HOPE Chem Resist Floor Drain Floor Drain Electrical Power Stoppin Zdaners outlets Tued Spury see plan Essential Standby Power Minterference Uphting Statistica Single Control	Attenuation. Dears: ** Clear op	Structural Lab, normal Easignment Data / AV / Comms Security / Life Safety Security Security / Life Safety Security / Life Safety Security / Life Safety Security Security Security / Life Safety Security Security Security / Life Safety Security Security	Vibration Criteria
GINEERING HVXC Trans_7C1: Summer 220C Temp1201: Summer 220C 2000 2000 2000 2000 2000 2000 200	Ind half between 1000-1200 Temp (*C): Winter 220C Temp Variation t	mm. Drainage HDPE Chem Resist Foor Drain Electrical Power Supply 200, see plan Cleaners outlets Fuend Spury, see plan Essential (Sanday Power Est Interference Est Interference Cleaners Lighting Sandtching San	Attenuation. Dears: ** Clear op		Vitration Criteria Vitration Criteria Alarm Systems -
GINEERING HVXC Trans_7C1: Summer 220C Temp1201: Summer 220C 2000 2000 2000 2000 2000 2000 200	Ind half between 1000-1200 Temp (*C): Winter 220C Temp Variation t	mm. Drainage HDPE Chem Resist Foor Drain Electrical Power Supply 200, see plan Cleaners outlets Fuend Spury, see plan Essential (Sanday Power Est Interference Est Interference Cleaners Lighting Sandtching San	Attenuation. Dears: ** Clear op 230y, trunking TPN Isolator Social Electrical Los Levels SoD Lux Detection Ballist Type DALI (Dimmable)		Vibration Criteria Vibration Criteria
GINEERING HVXC Trans_7C1: Summer 220C Temp1201: Summer 220C 2000 Standard 2000 Standar	Ind half between 1000-1200 Temp (*C): Winter 220C Temp Variation t	mm. Drainage HDPE Chem Resist Foor Drain Electrical Power Supply 200, see plan Cleaners outlets Fuend Spury, see plan Essential (Sanday Power Est Interference Est Interference Cleaners Lighting Sandtching San	Attenuation. Dears: ** Clear op	structural Lab, normal Enduring Lab, normal Enduring Data / AV / Comms Data Enduring Signal Projection Trigingtion Screen Trigingtion Trigingtion Screen Trigingtion Trigingtion Trigingtion Screen	Vitration Criteria Vitration Criteria Alarm Systems -

-<u>Sink Type</u> Sink- Epoxy (integral) Wash <u>Hand Basin</u> Accessories (assume SD, PTD included) Splash Pnl & Dry Rack - -Lab Safety Eye Wash Taps Lever Handle (mixer) Hands-free (sonar) Lab Sinks Water Source Lab CW & HW Lab CW & HW Wash Ha SE = Architecturally (/Enj ng) Significant Fo * O = Owner C = Extract Equipment MBSC (Class 2) Downdraft table Quantity 1 new 1 Relocated
 Significant Equip

 Size

 1300x800x2270

 1200x750x910
 Furnish - Install* Group 1 (CF-CI) Group 2 (OF-CI Name/Model Leec Name/Model Size Equipment Quantity Furnish - Install** -_ _____ _ -

Depth 750mm

Other Storage Units Cupboard, tall

Benchtop Material Trespa TopLab Plus Notes

Room ID:

E-Phys Prep Lab

Other LF Elements

LABORATORY FURNITURE

Type Bench, C-Frame -<u>Above Lab Bench</u> Shelving, wall mtd

O2.01 Medical Resea	al Sciences Irch Council (MRC) ET				abell ne Issued: 23 Feb 20
ardiac Perfusion / S	urgery				Room ID:
	Pre and post operation zone				CBS Ex-Vivo
	The und post operation ton				First Floor
					FIISt FIOOI
NERAL	Nominal Area 16 nsm	Occupants tbc	Hours in Use	Equality Act Compliance	Natural Light
			Full 24 hour use	Compliant	Not Required
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological	<u> </u>	<u> </u>
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	· .	Door Material	Timber- Solid Core	-
Skirting	150mm coved	-	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	<u>Type 1 - 100%</u>	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork	<u> </u>	Locks	Access Ctrl + Lock	-
Finish	Sikaguard coating		Closers	Closer	-
Protection	Wall + Corner Guards	<u> </u>	Vision Pnl	Large with blinds	-
			Protection	Kick Plates	-
Ceiling	<u>Type 1 - 100%</u>	Type 2 - Not Used	Seals	Fumigation	-
System	Special System	<u> </u>	Other	<u> </u>	
Finish	Special Details	<u> </u>			
Features	Washable	<u> </u>	Window Coverings	At Façade Blinds	Internal
Height			Type Light Control	Anti Glare / Black Out	-
• · · · · · · · · · · · · · · · · · · ·	Items	Notes	Operation		-
Accessories (non-Lab)	items	Notes	Manifestations / Film	Manual	-
	-		Manifestations / Film	<u>.</u>	-
	-		Shelving (non-lab)	<u>Shelf</u>	Notes
Architectural Notes			Shelving (non-lab) similar. Sound Attenuation: Ac ing of leaf and half between 10		Sound Attenuation. Door
	** Clear opening of full leaf		similar. Sound Attenuation: Ac		Sound Attenuation. Door
GINEERING HVAC	** Clear opening of full leaf bleed.	800 mm minimum. Clear open	similar. Sound Attenuation: Ac	oustic consultant to advise or 000-1200 mm. Doors to have	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Temp1°C): Summer	** Clear opening of full leaf bleed. <u>Temp (</u> °C): Winter	800 mm minimum. Clear open Drainage HDPE Chem Resist	similar. Sound Attenuation: Ac		Sound Attenuation. Door
GINEERING HVAC Temp (°C): Summer 22oC	** Clear opening of full leaf bleed. <u>Temp I</u> °C): Winter 22oC	800 mm minimum. Clear open	similar. Sound Attenuation: Ac	coustic consultant to advise or 0000-1200 mm. Doors to have Structural Loading Lab, normal	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC <u>Temp (</u> °C): Summer 220C <u>Temp Tolerance</u>	** Clear opening of full leaf bleed. <u>Temp (</u> ^o C): Winter <u>22oC</u> <u>Temp Variation</u>	800 mm minimum. Clear open Drainage HDPE Chem Resist Floor Drain	similar. Sound Attenuation: Ac		n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC 220C <u>Temp (°C):</u> Summer <u>7emp Tolerance</u> ± 20C	** Clear opening of full leaf bleed. <u>Temp (</u> °C): Winter <u>220C</u> <u>Temp Variation</u> ± 20C / Hour	000 mm minimum. Clear open Drainage HDPE Chem Resist Floor Drain Electrical	similar. Sound Attenuation: Ac	coustic consultant to advise or 0000-1200 mm. Doors to have Structural Loading Lab, normal	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Temp1°C): Summer 22oC TempTolerance ± 2oC Ventilation, supply	** Clear opening of full leaf bleed. <u>Temp (</u> °C): Winter <u>22oC</u> <u>Temp Variation</u> + 2OC / Hour <u>Ventilation, exhaust</u>	Drainage HDPE Chem Resist Floor Drain Electrical Power Supply	similar. Sound Attenuation: Ac ing of leaf and half between 10 		n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC 220C Temp I ^C C): Summer 220C Temp Tolerance ± 20C Ventilation, supply Comfort Cooling	** Clear opening of full leaf bleed. Temp_I ^o C): Winter 22oC Temp Variation ± 2oC / Hour Ventilation, exhaust General & Dedicated	Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan	similar. Sound Attenuation: Ac	 oustic consultant to advise or 000-1200 mm. Doors to have ; Structural Loading Lab, normal Equipment Data / AV / Comms	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity	** Clear opening of full leaf bleed. <u>Temp (</u> ² C): Winter <u>220C</u> <u>Temp Variation</u> <u>4:20C</u> /Hour <u>4:20C</u> /Hour	Drainage HDPE Chern Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets	similar. Sound Attenuation: Ac ing of leaf and half between 10 		n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC 220C Temp Tolerance ± 20C Ventilation, supply Comfort Cooling Humidity 50+/15% RH	** Clear opening of full leaf bleed. <u>Temp (°C): Winter</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>42oC / Hour</u> <u>Ventilation, exhaust</u> <u>General & Dedicated</u> <u>Air Frissure</u> Positive Airflow	Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spur, see plan	similar. Sound Attenuation: Ac ing of leaf and half between 1t 	 oustic consultant to advise or 0000-1200 mm. Doors to have ; Structural Loading Lab, normal Eduinement Data / AV / Comms Data / AV / Comms Data	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Imm_f°C): Summer Z2oC Imm_Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity Soly-1:55 RH Ar Filtration	** Clear opening of full leaf bleed. <u>Temp (²C): Winter</u> <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>5 4 2oC / Hour}</u> <u>5 4 2oC / Hour <u>5 5 4 2oC / Hour</u> <u>5 5 7</u></u>	Drainage HDPE Chern Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets	similar. Sound Attenuation: Ac ing of leaf and half between 10 		n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC 220C Temp Tolerance ± 20C VentRation, supply Comfort Cooling Humidity 50+/-15% RH AF ritration H10	** Clear opening of full leaf bleed. <u>Temp (°C): Winter</u> <u>22oC</u> <u>20oC</u> <u>20oC</u> <u>42oC / Hour</u> <u>Ventilation, exhaust</u> <u>General & Dedicated</u> <u>Air Frissure</u> Positive Airflow	B00 mm minimum. Clear open Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spury, see plan Essential / Standby Power	similar. Sound Attenuation: Ac ing of leaf and half between 1t 	 oustic consultant to advise or 0000-1200 mm. Doors to have ; Structural Loading Lab, normal Eduinement Data / AV / Comms Data / AV / Comms Data	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 2oC VentBatton, supply Comfort Cooling Humidity S0+/15% RH Ar fittration H10 Min Air Changes	** Clear opening of full leaf bleed. <u>Temp (²C): Winter</u> <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>5 4 2oC / Hour}</u> <u>5 4 2oC / Hour <u>5 5 4 2oC / Hour</u> <u>5 5 7</u></u>	Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spur, see plan	similar. Sound Attenuation: Ac ing of leaf and half between 1t 	Structural Leading Lab, normal Lading Lab, normal Lab, normal Lab, AV Comms Data /AV Comms Data Data /Wricets Data	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Temm2 (FC): Summer 22oC Comfort Cooling tiamatik: 504/-15% RH Ar Fittation H10 Min Air Changes 17 AC/HR (Occupied)	** Clear opening of full leaf bleed. <u>Temp (²C): Winter</u> <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>5 4 2oC / Hour}</u> <u>5 4 2oC / Hour <u>5 5 4 2oC / Hour</u> <u>5 5 7</u></u>	B00 mm minimum. Clear open Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spury, see plan Essential / Standby Power	similar. Sound Attenuation: Ac ing of leaf and half between 1t 		n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Terning Tolk Terning Tolk Terning Tolk 22oC Terning Tolk 200 Terning Tolk 4 20C YentRation, supply Comfort Cooling Humidity 50+1-75% RH Adr. Filtration H10 Min Air Charges 17 AC/HR (Occupied) Piped Services	** Clear opening of full leaf bleed. <u>Temp (²C): Winter</u> <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>5 4 2oC / Hour}</u> <u>5 4 2oC / Hour <u>5 5 4 2oC / Hour</u> <u>5 5 7</u></u>	Drainage HDPE Chem Resist Floor Orain Electrical Power Suoply 230v, see plan Cleaners outlets Fused Spur, see plan Essential / Sandby Power - El Interference	similar. Sound Attenuation: Ac ing of leaf and half between 1t 	Structural Leading Lab, normal Lading Lab, normal Lab, normal Lab, AV / Comms Data / AV / Comms Data Data / AV / Comms Data Data Data Data Data Data Data Dat	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Temm2 (FC): Summer 22oC Comfort Cooling tiamatik: 504/-15% RH Ar Fittation H10 Min Air Changes 17 AC/HR (Occupied)	** Clear opening of full leaf bleed. <u>Temp (²C): Winter</u> <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>4 2oC / Hour</u> <u>5 4 2oC / Hour}</u> <u>5 4 2oC / Hour <u>5 5 4 2oC / Hour</u> <u>5 5 5</u></u>	B00 mm minimum. Clear open Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spury, see plan Essential / Standby Power	similar. Sound Attenuation: Ac ing of leaf and half between 1t 	Structural Leading Lab, normal Lading Lab, normal Lab, normal Lab, AV / Comms Data / AV / Comms Data Data / AV / Comms Data Data Data Data Data Data Data Dat	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Timm_2 ¹ Cl: Summer 22oC Timm_2 ¹ Cl: Summer 22oC Timm_2 ¹ Cl: Summer 22oC Comfort Cooling Hill Hill Mind2 ¹ Clarages 17 AC/HR (Occupied) Piped Services Vater Lab CW 8 HW	** Clear opening of full leaf bleed. Temp (² C): Winter 22oC Temp Variation 22oC Ventilition, exhaust 24 20C / Hour Ventilition, exhaust General & Dedicated <u>Air Prostive Airflow</u> Equipment See Lab Equip 	Drainage HDPE Chem Resist Floor Orain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spur, see plan Essential / Standby Power - Lighting Lighting Lighting	imilar. Sound Attenuation: Ac ing of leaf and half between 10	Structural Laboreral Laboreral Laboreral Laboreral Data /AV / Comms Data /AV / Comms Data /AV / Comms Data Projector Screen Frieded Screen	n Sound Attenuation. <i>Doo</i> n peep holes only, to stop li
GINEERING HVAC Temp?C1: Summer 230C Imm Tolerange \$ 20C. Yumtation, upph Comfort Cooling Humalay Comfort Cooling Humalay Comfort Cooling Humalay Comfort Cooling Humalay Comfort Cooling Humalay Min Ar Cooping) Piped Services Water	** Clear opening of full leaf bleed. Temp (² C): Winter 22oC Temp Variation 22oC Ventilition, exhaust 24 20C / Hour Ventilition, exhaust General & Dedicated <u>Air Prostive Airflow</u> Equipment See Lab Equip 	Drainage HDPE Chem Resist Floor Drain Electrical Power Supply Cleaners outlets Fused Spur, see plan Cleaners outlets Fused Spur, see plan Essential / Standby Power 	similar. Sound Attenuation: Ac ing of leaf and half between 10 	Structural Lady Loop State Structural Lady Loop State Structural Lady, normal Estimation Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Projector Screen Friedetor Screen Security Ule Safety Security Ule Safety	Sound Attenuation. Doo peep holes only, to stop II <u>Vibration Criteria</u> - - - -
GINEENING WAC Temp (*C): Summer Izma (biranse) ACC for any and any any any ACC for any any any any any any ACC for any any any any any any ACC for any any any any any any any ACC for any any any any any any any any ACC for any any any any any any any any any ACC for any	** Clear opening of full leaf bleed. Temp (² C): Winter 22oC Temp Variation 22oC Ventilition, exhaust 24 20C / Hour Ventilition, exhaust General & Dedicated <u>Air Prostive Airflow</u> Equipment See Lab Equip 	Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets rused Spury, see plan Essential / Standby Power Editing Lighting General Lighting Switching Switching	imilar. Sound Attenuation: Ac ing of leaf and half between 10	Structural Lading La	Sound Attenuation. Doo peep holes only, to stop II <u>Vibration Criteria</u> - - - -
GINEENING WAC Temp (*C): Summer Izma (biranse) ACC for any and any any any ACC for any any any any any any ACC for any any any any any any ACC for any any any any any any any ACC for any any any any any any any any ACC for any any any any any any any any any ACC for any	** Clear opening of full leaf bleed. Temp (² C): Winter 22oC Temp Variation 22oC Ventilition, exhaust 24 20C / Hour Ventilition, exhaust General & Dedicated <u>Air Prostive Airflow</u> Equipment See Lab Equip 	Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spur, see plan Issential / Standby Power 	imilar. Sound Attenuation: Ac ing of leaf and half between 10	Structural Lady Loop State Structural Lady Loop State Structural Lady, normal Estimation Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Projector Screen Friedetor Screen Security Ule Safety Security Ule Safety	5 Sound Attenuation. Does peep holes only, to stop II <u>Vibration Criteria</u> - - - <u>Alarm Systems</u> -
GINEENING WAC Temp (*C): Summer Izma (biranse) ACC for any and any any any ACC for any any any any any any ACC for any any any any any any ACC for any any any any any any any ACC for any any any any any any any any ACC for any any any any any any any any any ACC for any	** Clear opening of full leaf bleed. Temp (² C): Winter 22oC Temp Variation 22oC Ventilition, exhaust 24 20C / Hour Ventilition, exhaust General & Dedicated <u>Air Prostive Airflow</u> Equipment See Lab Equip 	Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets rused Spury, see plan Essential / Standby Power Editing Lighting General Lighting Switching Switching	imilar. Sound Attenuation: Ac ing of leaf and half between 10	Structural Lady Loop State Structural Lady Loop State Structural Lady, normal Estimation Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Projector Screen Friedetor Screen Security Ule Safety Security Ule Safety	5 Sound Attenuation. Does peep holes only, to stop II <u>Vibration Criteria</u> - - - <u>Alarm Systems</u> -
GINEENING WAC Temp (*C): Summer Izma (biranse) ACC for any and any any any ACC for any any any any any any ACC for any any any any any any ACC for any any any any any any any ACC for any any any any any any any any ACC for any any any any any any any any any ACC for any	** Clear opening of full leaf bleed. Temp (² C): Winter 22oC Temp Variation 22oC Ventilition, exhaust 24 20C / Hour Ventilition, exhaust General & Dedicated <u>Air Prostive Airflow</u> Equipment See Lab Equip 	Drainage HDPE Chem Resist HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230v, see plan Cleaners outlets Fued Spur, see plan Cleaners outlets Fued Spur, see plan Essential / Standby Power EM Interference Identifies General Uphting Scene Setting Other Lighting Scale (red) Light	similar. Sound Attenuation: Ac ing of leaf and half between 11 	Structural Lading La	5 Sound Attenuation. Does peep holes only, to stop II <u>Vibration Criteria</u> - - - <u>Alarm Systems</u> -
GINEERING WAC Temp[C1: Summer Temp[C2: Summer	** Clear opening of full leaf bleed. Temp (² C): Winter 22oC Temp Variation 22oC Ventilition, exhaust 24 20C / Hour Ventilition, exhaust General & Dedicated <u>Air Prostive Airflow</u> Equipment See Lab Equip 	Drainage HDPE Chem Resist HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets Fused Spur, see plan Essential / Standby Power Istential / Standby Power Istential / Standby Power Lighting Lighting Lighting Switching Science Setting Other Lighting Switching Steners of Lighting Switching Steners of Lighting Switching Steners of Lighting Switching Steners of Lighting Switching Chem Lighting Chem Lighting Difference	imilar. Sound Attenuation: Ac ing of leaf and half between 10	Structural Lab, normal Equation Lab, normal Equation Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Traineduction Security / Life Safety Security / Life Safety Access Control Traineduction	Sound Attenuation. Doo peep holes only, to stop in <u>Vibration Criteria</u>
GINEERING WAC Temp[C1: Summer Temp[C2: Summer	** Clear opening of full leaf bleed. Temp (² C): Winter 22oC Temp Variation 22oC Ventilition, exhaust 24 20C / Hour Ventilition, exhaust General & Dedicated <u>Air Prostive Airflow</u> Equipment See Lab Equip 	Drainage HDPE Chem Resist HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230v, see plan Cleaners outlets Fued Spur, see plan Cleaners outlets Fued Spur, see plan Essential / Standby Power EM Interference Identifies General Uphting Scene Setting Other Lighting Scale (red) Light	similar. Sound Attenuation: Ac ing of leaf and half between 11 	Structural Lashing Lashing Structural Lashing Lashing	Sound Attenuation. Door peep holes only, to stop ly <u>Vibration Criteria</u>
GINEERING WAC Temp[C1: Summer Temp[C2: Summer	** Clear opening of full leaf bleed. Temp (² C): Winter 22oC Temp Variation 22oC Ventilition, exhaust 24 20C / Hour Ventilition, exhaust General & Dedicated <u>Air Prostive Airflow</u> Equipment See Lab Equip 	Drainage HDPE Chem Resist HDPE Chem Resist HDPE Chem Resist Electrical Power Supply Cleaners outlets Fused Spur, see plan Cleaners outlets Fused Spur, see plan Cleaners outlets Switching Switching Switching Switching Safe (red) Lighting Safe (red) Lighting Safe (red) Lighting Safe (red) Lighting Cleaners C	imilar. Sound Attenuation: Ac ing of leaf and half between 10 	Sinuctural Lab, normal Laburner Lab, normal Lab, norma Lab, norma	Sound Attenuation. Doo peep holes only, to stop in vibration Criteria - - - - - - - - - - - - - - - - - - -

Engineering	Notes

V1.00

rdiac Perfusion /	Surgery				Room ID:
LABORATORY FURNIT	URE				
Lab Benching	Type Bench, Movable	Benchtop Material Trespa TopLab Plus -	<u>Depth</u> 750mm -	Notes	
Other LF Elements	Above Lab Bench Shelving, bench mtd	Shelving, wall mtd	Other Storage Units Underbench cabinets -		
Lab Sinks	Sink Type Wash Hand Basin Scrub Hand Wash station	Water Source Lab CW & HW Lab CW & HW	Taps Hands-free (sonar) Lever Handle (mixer)	Accessories (assume SD, F Lab Safety Eye Wash Lab Safety Eye Wash	TD included)
LABORATORY EQUIPM	1ENT (ASE*)				
	Extract Equipment MBSC (Class 2)	Name/Model	* ASE = Architecturally (/Engine Quantity -	ering) Significant Equipment Size 1300x800x2270	** O = Owner C = Contract <u>Furnish - Install**</u> Group 2 (OF-CI) -
	Equipment Perfusion Table Myography Surgical Station	Name/Model AFOS DMT	Quantity.	Size (wxdxh) 1400x900x1400 600x300x300 750x1500x910	Furnish - Install** Group 2 (OF-CI) Group 2 (OF-CI) Group 2 (OF-CI)

302.01 Medical Resea	arch Council (MRC)				Issued: 23 Feb 2
OOM CRITERIA SHE	ET				
ardiac Perfusion					Room ID:
aralact citasion	Cardiac Perfusion operation				CBS Ex-Vivo
	Cardiac Perfusion operations	ā.			First Floor
					First Floor
NERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	18 nsm	tbc	Full 24 hour use	-	-
Laboratories Only:	Containment	Fumigation	Safety Risks		
caboratories only.	ACDP CL2	No	Biological		-
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Type	-	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size		-
Construction	50mm Screed	THE L HOLORG	Operation	Swinging	-
Floor Finish	Vinyl		Door Material		-
		-	Door Finish	Timber- Solid Core	
Skirting	150mm coved	-		HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	*
Construction	Blockwork	-	Locks	Access Ctrl + Lock	-
Finish	Sikaguard coating	-	Closers	Closer	-
Protection	Wall + Corner Guards	-	Vision Pnl	Large with blinds	-
			Protection	Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	Fumigation
System	Special System	Type 2 Hot osed	Other	Cibire tibire	Tumpution
Finish			other		<u> </u>
	Special Details	-			
Features	Washable	-	Window Coverings	At Façade	Internal
Height	-	-	Туре	Blinds	-
			Light Control		
				Anti Glare / Black Out	
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
Accessories (non-Lab)	Items	Notes			
Accessories (non-Lab)	<u>Items</u>	Notes	Operation		-
Accessories (non-Lab)	<u>Items</u> 	Notes	Operation Manifestations / Film	Manual -	- - -
	- - - Wall and ceiling coatings to l ** Clear opening of full leaf	be Liquid Plastic/Sikaguard or	Operation	Manual Shelf - coustic consultant to advise or	
Accessories (non-Lab) Architectural Notes	- - - Wall and ceiling coatings to l	be Liquid Plastic/Sikaguard or	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual Shelf - coustic consultant to advise or	Sound Attenuation. Doc
Architectural Notes	- - - Wall and ceiling coatings to l ** Clear opening of full leaf	be Liquid Plastic/Sikaguard or 800 mm minimum. Clear open	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual - <u>Shelf</u> - oustic consultant to advise or 0000-1200 mm. Doors to have	Sound Attenuation. Doc
	- - - Wall and ceiling coatings to l ** Clear opening of full leaf	be Liquid Plastic/Sikaguard or	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual Shelf - coustic consultant to advise or	Sound Attenuation. Doc
Architectural Notes IGINEERING HVAC	- - - Wall and ceiling coatings to ** Clear opening of full leaf bleed.	be Liquid Plastic/Sikaguard or 800 mm minimum. Clear open	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual - <u>Shelf</u> - oustic consultant to advise or 0000-1200 mm. Doors to have	Sound Attenuation. Doc
Architectural Notes	- - - Wall and ceiling coatings to l ** Clear opening of full leaf	be Liquid Plastic/Sikaguard or 800 mm minimum. Clear open Drainage	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual	Sound Attenuation. Doo
Architectural Notes	- - - - Wall and ceiling coating: to Wall and ceiling coating: to the coating of full leaf: bleed. Temp_f^CC): Winter 22oC	De Liquid Plastic/Sikaguard or 800 mm minimum. Clear open Drainage HDPE Chem Resist	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual Manual Manual	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC Temp (⁷ C): Summer <u>22oC</u> Lemp Tolerance		De Liquid Plastic/Sikaguard or 800 mm minimum. Clear open Drainage HDPE Chem Resist	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual Shelf	Sound Attenuation. Doo
Architectural Notes		Drainage HDPE Chem Resist HDPE Chem Resist Floor Drain Electrical	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual Manual Manual	Sound Attenuation. Doo
Architectural Notes GINEFRING HVAC Temp (² C): Summer 220C Temp Tolerance ± 20C Ventilation, supply	Temp n ² C): Winter 220C Vour 220C Vour 220C Vour 220C Vour 220C Vour 220C Vour	De Liquid Plastic/Stikaguard or 800 mm minimum. Clear open 000 mm minimum. Clear open HDPE Chem Resist Floor Drain Electrical Power Supply	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac image of teal and half between 1t	Manual	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC Temp (°C): Summer Z20C Temp Tolerance ± 20C VentBalco, supply Comfort Cooling	Image: Construction of the second s	Drainage HDPE Chem Resist Floor Drain Electrical Power Supply 230y, see plan	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual	Sound Attenuation. Doo
Architectural Notes HVAC Temp (¹ C): Summer 220C Temp Oterance ± 20C Ventilation, supply Comfort Cooling Humidity		Drainage HDPE Chem Resist HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac head and half between 1t	Manual Structural Leading Lab, normal Lab	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC 22c7 Temp Tofewares 2 a 2 Comfort Cooling timinitik 50/-153/K RH			Operation Manifestations / Film Shelving (non-lab) similar. <i>Sound Attenuation</i> : Ac	Manual Steal Structural Lashing Lash, normal Equipment Data / AV / Comms Data	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC Temp(² C): Summer 230C Temp Tolerance ± 20C Virolitation, usoph Comfort Cooling Humidity Soly/1378 RH Ar Filtration		Drainage HDPE Chem Resist HDPE Chem Resist Floor Drain Electrical Power Supply 230v, see plan Cleaners outlets	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac head and half between 1t	Manual Manual Structural Leading Lab, normal Ladgement Data / AV / Comms Data Data Vireless	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC 22cC Temp ToParance 4 2cC VentBatics, supply Confort Cooling Humidity 50/-1578 KH All Fritation H10			Operation Manifestations / Film Shelving (non-lab) similar. <i>Sound Attenuation</i> : Ac	Manual Steal Structural Lashing Lash, ormal Equipment Data / AV / Comms Data	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC Temp?CP: Summer 220C Temp Tolerance ± 20C Ventilation, usualy Comfort Cooling Humidity 50/-1378 RH IA Ar Franciso			Operation Manifestations / Film Shelving (non-lab) similar. <i>Sound Attenuation</i> : Ac	Manual Structural Lading Lab, normal Lading Lab, normal Lab, commal Lab, commal Lab, comma Data / AV / Comms Data Data / MV / Comms Data Data Data Data Data Data Data Dat	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC 22oC Temp Tofewares 2 a 2 co VentBatics, supply Comfort Cooling Humidits 50/-153K RH Ar Fination H10			Operation Manifestations / Film Shelving (non-lab) similar. <i>Sound Attenuation</i> : Ac	Manual Structural Lading Lab, normal Lading Lab, normal Lab, commal Lab, commal Lab, comma Data / AV / Comms Data Data / MV / Comms Data Data Data Data Data Data Data Dat	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC Tamp?CP: Summer 220C Tamp?CP: Summer 230C Comfort Cooling tamatax 50/-1578 KH Ar Fittation H10 MnAP Changes 17 AC/HR (Occupied) Pped Services		Liquid Ristl/Staguard or Botomm minimum. Clear open Botomm minimum. Clear open Ribert Chem Resist Floor Drain Electrical Prover Supply 2300, see plan Cleaners outlets Fused Spur, see plan Fused Spur, see p	Operation Manifestations / Film Shelving (non-lab) similar. <i>Sound Attenuation</i> : Ac	Manual Manual Structural Leading Lab, normal Ladgement Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Data / AV / A	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC Temp_C ¹ (2): Summer 22c7 Temp Tofewares 4 2c6 Comfort Cooling Humidity 50/-155/ RH Ar Fination H10 Min.Air Coupled) Piped Services Water	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp		Operation Manifestations / Film Shelving (non-lab) similar.Sound Attrivuotion: Ac ing of leaf and half between 10	Manual Store and a stress of the stress of	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC Tamp?CV: Summer 220C Tamp?CV: Summer 220C Confurt Cooling tamatax 50/-1578 KH Are Fituration H10 MnAP Changes 17 AC/HR (Occupied) Piped Services Vater Vater Uab CW & HW			Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac ming of leaf and half between 1t 	Manual Manual Structural Leading Lab, normal Equilation Data /AV / comms Data // Com	Sound Attenuation. Doc geep holes only, to stop I <u>Vibration Criteria</u> - - -
Architectural Notes GINEERING HVAC Temp_CT(2): Summer 22oC Temp_Contents 22oC Temp_Contents 22oC VentBallow, Supply Comfort Cooling Humality 42oC Comfort Cooling Humality 42oC Comfort Cooling Humality 42oC Comfort Cooling Humality 42oC Comfort Cooling Humality 42oC Comfort Cooling Humality 42oC Min.ArC Charges 42oC 4	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp		Operation Manifestations / Film Shelving (non-lab) similar.Sound Attrivuotion: Ac ing of leaf and half between 10	Manual Manual	Sound Attenuation. Doo
Architectural Notes GINEERING HVAC Tamp?CV: Summer 220C Tamp?CV: Summer 220C Confurt Cooling tamatax 50/-1578 KH Are Fituration H10 MnAP Changes 17 AC/HR (Occupied) Piped Services Vater Vater Uab CW & HW	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac ming of leaf and half between 1t 	Manual Manual Structural Leading Lab, normal Equilation Data /AV / comms Data // Com	Sound Attenuation. Doc geep holes only, to stop I <u>Vibration Criteria</u> - - -
Architectural Notes GINEERING HVAC Temp 27(2): Summer 22oC Temp 27(2): Summer 22oC Confort Cooling Humidity 42oC Confort Cooling Humidity 50/155/ KH Ar Fitation H10 Min Ar Charges 17 AC/HR (Coupled) Piped Services Water Lab CW (Ar S)	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp		Operation Manifestations / Film Shelving (non-lab) similar.Sound Attrivuotion: Ac ing of leaf and half between 10	Manual Manual	Sound Attenuation. Doc geep holes only, to stop I <u>Vibration Criteria</u> - - -
Architectural Notes GINEERING HVAC Temp 27(2): Summer 22oC Temp 27(2): Summer 22oC Confort Cooling Humidity 42oC Confort Cooling Humidity 50/155/ KH Ar Fitation H10 Min Ar Charges 17 AC/HR (Coupled) Piped Services Water Lab CW (Ar S)	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp		Operation Manifestations / Film Shelving (non-lab) similar.Sound Attrivuotion: Ac ing of leaf and half between 10	Manual Manual	Sound Attenuation. Doc geep holes only, to stop I <u>Vibration Criteria</u> - - -
Architectural Notes GINEERING HVAC Temp 27(2): Summer 22oC Temp 27(2): Summer 22oC Confort Cooling Humidity 42oC Confort Cooling Humidity 50/155/ KH Ar Fitation H10 Min Ar Charges 17 AC/HR (Coupled) Piped Services Water Lab CW (Ar S)	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac ing of leaf and half between 1s	Manual Manual	Sound Attenuation. Doc geep holes only, to stop I <u>Vibration Criteria</u> - - -
Architectural Notes GINEERING HVAC Temp?Q1: Summer 22oC Temp?G2: Summer 22oC TempTotranse 4 2oC TempTotranse	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp	Liquid Plastic/Shaguard or Boo mm minimum. Cear open Boo mm minimum. Cear open Brown Supply Electrical Power Supply 2300, see plan Cleaners outlets Fueed Sour, see plan Cleaners outlets Fueed Sour, see plan Cleaners outlets Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Power Supply Electrical Power Supply Electri	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac img of leaf and half between 10	Manual Manual	Sound Attenuation. Doe peep holes only, to stop Vibration Criteria
Architectural Notes GINEERING HVAC Temp 27(2): Summer 22oC Temp 27(2): Summer 22oC Confort Cooling Humidity 42oC Confort Cooling Humidity 50/155/ KH Ar Fitation H10 Min Ar Charges 17 AC/HR (Coupled) Piped Services Water Lab CW (Ar S)	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac ing of leaf and half between 1s	Manual Manual Structural Loading Lab, normal Eaulignment Data / AV / Comms Data Projection Security / Life Safety Security Systems Access Control	Sound Attenuation. Doc geep holes only, to stop I <u>Vibration Criteria</u> - - -
Architectural Notes GINEERING HVAC Temp?Q1: Summer 220C TempStance 210C Comfort Cooling itumidat S0i/1518 HH Ar Titatation H10 Art Titatation H20	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp	Liquid Plastic/Shaguard or Boo mm minimum. Cear open Boo mm minimum. Cear open Brown Supply Electrical Power Supply 2300, see plan Cleaners outlets Fueed Sour, see plan Cleaners outlets Fueed Sour, see plan Cleaners outlets Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Electrical Power Supply Cleaners outlets Electrical Power Supply Electrical Power Supply Electri	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac img of leaf and half between 10	Manual Manual Study Manual Structural Laditor Laditor Laditor Laditor Laditor Laditor Laditor Laditor Laditor Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Common Data / AV / Comms Data Common Da	Sound Attenuation. Doe peep holes only, to stop Vibration Criteria Alarm Systems
Architectural Notes GINEERING HVAC Temp?Q1: Summer 22oC Temp?G2: Summer 22oC TempTotranse 4 2oC TempTotranse	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac ing of leaf and half between 1s	Manual Manual Standf Manual Structural Loading Lab, normal Loading Lab, normal Equiment Data / AV / Comms Data / AV / Comms Data Mireles Equilat Projection Frigetion Screen Frigetion S	Sound Attenuation. Doe peep holes only, to stop <u>Vibration Criteria</u> - - - - - - - - - - - - -
Architectural Notes GINEERING HVAC Temp?Q1: Summer 220C TempStance 210C Comfort Cooling itumidat S0i/1518 HH Ar Titatation H10 Art Titatation H20	Temp (² C): Winter John Comparison of full leaf John Comparison of full leaf John Comparison Temp Qurition Temp		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac img of leaf and half between 10	Manual Manual Study Manual Study Market Common Dears to have Structural Lady, normal Examination Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Structural Common Dears Data / AV / Comms Data Common Dears Data / Comms Data Common Dears Data / Comms Data Common Dears Data Data	Sound Attenuation. Doe peep holes only, to stop Vibration Criteria Alarm Systems

Lab Benching Notes Benchtop Material Trespa TopLab Plus Depth 750mm Bench, Movable Other LF Elements Other Storage Units Underbench cabinets Above Lab Bench Shelving, bench mtd Shelving, wall mtd ---Lab Sinks Sink Type Water Source Taps Accessories (assume SD, PTD included) Wash Hand Basin
LABORATORY EQUIPMENT (ASE*) -Lab CW & HW -Hands-free (sonar) -Lab Safety Eye Wash * O = Owner C = Con Furnish - Install** ASE = Archite Quantity ring) Significant Eq Size Extract Equipment MBSC (Class 2) IVC Rack Name/Model -Techniplast -1 Relocated 1524x762x2045 Group 2 (OF-CI) Name/Model AD Instruments Equipment Langendorff System -Quantity 1 Relocated Size 1200x750x2000 Furnish - Install** Group 2 (OF-CI)

Room ID:

Cardiac Perfusion

LABORATORY FURNITU

OOM CRITERIA SHE	51				
ptical Projection To	mography				Room ID:
	Microscope work				CBS Ex-Vivo
					First Floor
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	23 nsm	tbc	Full 24 hour use	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological/Chem	-	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Type	Single Door	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	800 mm min.	
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	150mm coved	-	Door Finish	HPL	-
-			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork		Locks	Access Ctrl + Lock	-
Finish	Sikaguard coating	-	Closers	Closer	-
Protection	Wall + Corner Guards	-	Vision Pnl	Peep Hole	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	-
System	Special System	-	Other	-	-
Finish	Special Details	-			
Features	Washable		Window Coverings	At Façade	Internal
Height	-	-	Туре	Blinds	
Height			Light Control	Anti Glare / Black Out	-
Accessories (non-Lab)	Items	Notes	Operation	Anti Glare / Black Out Manual	-
	Items	Notes			
	<u>Items</u> - -	Notes	Operation		
	<u>Items</u> - -	Notes	Operation		- - - Notes
			Operation Manifestations / Film	Manual - <u>Shelf</u> -	
Accessories (non-Lab) Architectural Notes	- - - - Room needs to be light-tight	(drop seal, tight to frame, fra	Operation Manifestations / Film Shelving (non-lab)	Manual - <u>Shelf</u> - d). Sound Attenuation: Acous	
Accessories (non-Lab) Architectural Notes NGINEERING HVAC	- - Room needs to be light-tight Sound Attenuation.	(drop seal, tight to frame, fra	Operation Manifestations / Film Shelving (non-lab)	Manual Shelf Sound Attenuation: Acous Structural	tic consultant to advise
Accessories (non-Lab) Architectural Notes NGINEERING HVAC Immo (°C): Summer	Room needs to be light-tight Sound Attenuation.	(drop seal, tight to frame, fra	Operation Manifestations / Film Shelving (non-lab)	Manual	
Accessories (non-Lab) Architectural Notes WGINEERING HVAC Temp (² C): Summer 22oC	Room needs to be light-tight Sound Attenuation.	(drop seal, tight to frame, fra	Operation Manifestations / Film Shelving (non-lab)	Manual Shelf	tic consultant to advise
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Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Movable	Trespa Toplab Base	750mm		
	-	-	<u>-</u>		
Other LF Elements	Above Lab Bench		Other Storage Units		
	Shelving, bench mtd	Shelving, wall mtd	Underbench cabinets		-
	-	-	-	-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PT	D included)
	Sink- Epoxy (integral)	Lab CW (Cat 5)	Lever Handle (mixer)	Splash Pnl & Dry Rack	-
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	
LABORATORY EQUIPM	/IENT (ASE*)				
			ASE = Architecturally (/Engine	ering) Significant Equipment	* O = Owner C = Con
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	-				-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	In-Vivo Imaging System	PerkinElmer IVIS XR III		480x710x104	-
	-				-

Room ID:

Optical Projection Tomography

Note: RCSs are preliminary, with detail to be agreed with the Users during RIBA Stage 3. V1.00

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CBS - IN-VIVO HOLDING AND PROCEDURE ROOMS



PROPOSED PLAN - HOLDING ROOM (LEVEL 1)

HWS - Hand Wash Station IVC - Individually Ventilated Cage Rack AHU - Air Handling Unit BIN - IVC Diet Bin DDT - Downdraft Bench LEB - Laboratory Sink Unit LFM - Mobile Cupboard Unit (underbench) HWS - Hand Wash Station

MRC LMS Stage 2 Report - Section 4





PROPOSED PLAN - GENERAL PROCEDURE TYPE A (LEVEL 1)

PROPOSED PLAN - GENERAL PROCEDURE TYPE B (LEVEL 1)

OOM CRITERIA SHE	ET				
IOLDING ROOM					
	To hold IVC mouse racks and	i cage change.			CBS Holding
					First Floor
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	22 nsm	tbc	Full 24 hour use	Compliant	Not Acceptable
Laboratories Only:	Containment	Fumigation	Safety Risks		
Laboratories Only.	ACDP CL2	No	Biological	-	-
RCHITECTURAL Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	Normal Attenuation	40 (tbc)	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	150mm coved	<u> </u>	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork	<u> </u>	Locks	Key Lock& Thumb Turn	-
Finish Protection	Sikaguard Coating Wall + Corner Guards	<u> </u>	Closers Vision Pnl	Closer Large with blinds	
Protection	Wall + Corner Guards	<u>- </u>	Protection	Large with blinds	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	- Fumigation
System	Special System	Type 2 - Not Osed	Other	Light-tight	Fumigation
Finish	Special Finish		oulei	Light-tight	-
Features	Washable		Window Coverings	At Façade	Internal
Height	-	-	Туре	-	-
			Light Control	-	-
		Notes	Operation		
Accessories (non-Lab)	Items	Notes			
Accessories (non-Lab)	- Items	Notes	Manifestations / Film		-
Accessories (non-Lab)	<u>Items</u> - -	Notes	Manifestations / Film		-
Accessories (non-Lab)	<u>Items</u> - - -			- Shelf	Notes
Accessories (non-Lab)	<u>-</u>		Manifestations / Film Shelving (non-lab)		
Accessories (non-Lab)	- - - - Wall and ceiling coatings to b	De Liquid Plastic/Sikaguard or	Manifestations / Film Shelving (non-lab) similar. Must ensure external		upants (when used for
Accessories (non-Lab)	- - - Wall and ceiling coatings to b reverse cycle experiments).	be Liquid Plastic/Sikaguard or Room to be Home office comp	Manifestations / Film Shelving (non-lab) similar. Must ensure external pliant for holding of rodents, 24		upants (when used for ion: Acoustic consultan
	- - - Wall and ceiling coatings to b reverse cycle experiments).	De Liquid Plastic/Sikaguard or Room to be Home office com equirement. Doors: ** Clear c	Manifestations / Film Shelving (non-lab) similar. Must ensure external		upants (when used for ion: Acoustic consultan
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Architectural Notes	- - - Wall and ceiling coatings to b reverse cycle experiments). confirm Sound Attenuation r	be Liquid Plastic/Sikaguard or Room to be Home office com equirement. Doors: ** Clear es only, to stop light bleed.	Manifestations / Film Shelving (non-lab) similar. Must ensure external pliant for holding of rodents, 24	- noise does not affect room occ 4/7 operation. Sound Attenuat himum. Clear opening of leaf a	upants (when used for ion: Acoustic consultan
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Architectural Notes NGINEERING HVAC Temp (² C): Summer 210C Temp Tolerance 1 20C Wentilation, supply		De Liquid Plastic/Stkaguard or Room to be Home office com equirement. Doors: ** Clear ca es only, to stop light bleed. Drainage HDPE Cherm Resist Electrical Power Supply	Manifestations / Film Shelving (non-lab) similar. Must ensure external plaint for holding of rodents, 2- ppening of full leaf 800 mm mir	- Inside does not affect room occupation. Sound Attenuation. Sound Attenuation. Clear opening of leaf a Structural Loading Lab, normal Equipment Noise & Vibration	upants (when used for ion: Acoustic consultan nd half between 1000-1
Architectural Notes NGINEERING HVAC Temp_1 [©] (): Summer 21oC Temp Tolerance + 2oC Ventilation, Juspiv Confront Cooling	Image: Second	be Liquid Plastic/Sikaguard or Room to be Home office com equirement. Doors: ** Cear e sonly, to stop hight bleed. Drainage HDPE Chem Resist Electrical Power Supply 230y, see plan	Manifestations / Film Shelving (non-lab) similar. Must ensure external pliant for holding of rodents, 24	The set of the se	upants (when used for ion: Acoustic consultan nd half between 1000-1
Architectural Notes NGINEERING HVAC Temp 2 ¹⁰ C Summer 210C Ventilation.usph Comfort Cooling Humidity	Image: Second	e Liquid Plastic/Slagund or Room to be Home office com requirement. Doors: ** Clear ar prainage HDPE Chern Resist 	Manifestations / Film Shelving (non-lab) similar. Must ensure external plaint for holding of rodents, 2- ppening of full leaf 800 mm mir	Toolse does not affect room occ values of the second	upants (when used for ion: Acoustic consultan dn half between 1000-1 <u>Vibration Criteria</u> -
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Lab Benching	Туре	Benchtop Material	Depth	Notes	
		- <u>-</u>	<u>.</u>		
	-	- <u> </u>		-	
Other LF Elements	Above Lab Bench		Other Storage Units		
	-	<u> </u>	-	-	-
				·	
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PT	D included)
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Splash Panel	-
LABORATORY EQUIPM	IENT (ASE*)				
			ASE = Architecturally (/Engine	eering) Significant Equipment	* O = Owner C = Contra
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Other Lab Equip	Cage Change Station	2 units		-
	IVC Rack		4 units		-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	-				

OOM CRITERIA SHE	EI				
olators (mice)					
	To hold IVC rack and isolato	rs.			CBS Holding
					First Floor
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	28 nsm	tbc	Full 24 hour use	Compliant	Not Acceptable
Laboratories Only:	Containment	Fumigation	Safety Risks		
Laboratories Only.	ACDP CL2	No	Biological	-	-
RCHITECTURAL Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
Sound Attendation	Normal Attenuation	40 (tbc)	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	-	Operation	Swinging	
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	150mm coved	-	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork	-	Locks	Key Lock& Thumb Turn	-
Finish	Sikaguard Coating		Closers	Closer	-
Protection	Wall + Corner Guards	-	Vision Pnl	Large with blinds	-
			Protection	-	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	Fumigation
System	Special System	-	Other	Light-tight	-
Einish	Special Finish	-			-
Features	Washable	-	Window Coverings	At Façade	Internal
Height	-		Туре	-	-
incigite.			Light Control		-
Accessories (non-Lab)	Items	Notes	Operation	-	-
Accessories (non-cab)	-		Manifestations / Film	-	-
Accessories (non-Lab)			Manifestations / Film		-
Accessories (IIOII-Eab)				-	- Notes
Accessories (non-Lab)	- - - - Wall and ceiling coatings to b	De Liquid Plastic/Sikaguard or	Shelving (non-lab)		
Architectural Notes	- - - Wall and ceiling coatings to b reverse cycle experiments).	De Liquid Plastic/Sikaguard or Room to be Home office com equirement. Doors: ** Clear	Shelving (non-lab)		upants (when used for ion: Acoustic consultan
	- - - Wall and ceiling coatings to b reverse cycle experiments). confirm Sound Attenuation r	De Liquid Plastic/Sikaguard or Room to be Home office com equirement. Doors: ** Clear	Shelving (non-lab) similar. Must ensure external i		upants (when used for ion: Acoustic consultan
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Architectural Notes NOINEERING HVAC Temn_C ¹ Ci: Summer Z1oC Temn_Cic: Summer A 2 oC Ventilation, usph Comfort Cooling Hummitity S04-155K BH Centrally of Ar filtration Ar filtration Ar filtration Ar filtration Ar filtration Ar filtration Comfort Cooling Hummitity S04-155K BH Centrally of Ar filtration Ar filtration Comfort Cooling Hummitity S04-155K BH Centrally of Ar filtration Comfort Cooling Hummitity S04-155K BH Centrally of Ar filtration Comfort Cooling Hummitity S04-155K BH Centrally of Ar filtration Comfort Cooling Hummitity Comfort Cooling Hummitity Hummitity Comfort Cooling Hummitity Comfort Cooling Hummitity Hummitity Comfort Cooling Hummitity Hummitity Comfort Cooling Hummitity Hummitit		Elguid Plasti/Silagand or veloam be Hone Born be Hone Born be Hone Born be Hone Born be Hone Resist es only, to stop light bleed. Drainage HoPE Chem Resist Electrical Prever Sacab Zaloy, see plan Cleaners outlets Fused Soury, see plan Cleaners outlets Fused Soury, see plan Cleaners outlets Lubring Lubring Lubring Durnal-Scene Set Durnal-Scene Set	Shelving (non-lab) imiliar. Must ensure extential illiant for holding of rodents, 2. popening of full leaf 800 mm mili		upants (when used for Acoustic consultan and half between 1000 J <u>Vibration Criteria</u>

LABORATORY FURNIT	URE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	-	-	<u> </u>		
	- <u>-</u>	- <u>-</u>	- <u> </u>		
Other LF Elements	Above Lab Bench		Other Storage Units		
	-			-	
	-	-		-	
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume S	D, PTD included)
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Splash Panel	
LABORATORY EQUIPM	AENT (ASE*)				
			* ASE = Architecturally (/Engine	eering) Significant Equipme	ent ** O = Owner C = Contra
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Other Lab Equip	Isolators	2 units		-
	Other Lab Equip	IVC Cages	90 cages		
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	-			-	

V1.00

ENERAL PROCEDUR	E ROOM				
ENERAL PROCEDOR	Pre and post operation zone				CBS Procedure Ro
	Pre and post operation zone	э.			First Floor
NERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
INERAL	17 nsm	tbc	Full 24 hour use	Compliant	Not Acceptable
	17 11311	100	Tun 24 nour use	compilant	Потлесершые
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological		-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	-	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Polymer-clad	-
Skirting	150mm coved	-	Door Finish	-	-
			Frame Material	Polymer-clad	-
Partitions	<u>Type 1 - 100%</u>	Type 2 - Not Used	Frame Finish	-	-
Construction	Blockwork	<u>.</u>	Locks	Access Ctrl + Lock	-
Finish	Sikaguard Coating	<u> </u>	Closers	Closer	-
Protection	Wall + Corner Guards	<u> </u>	Vision Pnl	<u> </u>	-
	T	Tree 2. New York	Protection Seals	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals Other	Fumigation	-
System Finish	Special System Special Details	<u> </u>	Other		
Features	Washable	<u> </u>	Window Coverings	At Facade	Internal
Height	wasilable	÷	Type	Roller Blinds	internal
neight			Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		Manifestations / Film		
,			Manifestations / Film	-	-
	Licensing detailing and comm	nissioning. **Clear opening of	Manifestations / Film Shelving (non-lab) and ceiling coatings to be Liqu full leaf 800 mm minimum. C		
Architectural Notes		nissioning. **Clear opening of	Shelving (non-lab) and ceiling coatings to be Liqu	- id Plastic or similar. MEP des	ign requires Home Office
	Licensing detailing and comm	nissioning. **Clear opening of	Shelving (non-lab) and ceiling coatings to be Liqu	- id Plastic or similar. MEP des	ign requires Home Office
Architectural Notes	Licensing detailing and comm	nissioning. **Clear opening of	Shelving (non-lab) and ceiling coatings to be Liqu	- id Plastic or similar. MEP des	ign requires Home Office
Architectural Notes IGINEERING HVAC	Licensing detailing and comn Doors to have peep holes on	nissioning. **Clear opening of ly.	Shelving (non-lab) and ceiling coatings to be Liqu	- id Plastic or similar. MEP des lear opening of leaf and half b	ign requires Home Office
Architectural Notes	Licensing detailing and comm Doors to have peep holes on <u>Temp (</u> °C): Winter 22oC	nissioning. **Clear opening of ly. Drainage	Shelving (non-lab) and ceiling coatings to be Liqu	- id Plastic or similar. MEP des lear opening of leaf and half b Structural Loading Lab, normal	ign requires Home Office etween 1000-1200 mm.
Architectural Notes IGINEERING HVAC Temp (² C): Summer <u>240C</u> Emp Tolerance	Licensing detailing and comm Doors to have peep holes on <u>Temp (</u> ^o C): Winter <u>22oC</u> <u>Temp Variation</u>	V. Drainage HDPE Chem Resist	Shelving (non-lab) and ceiling coatings to be Liqu		ign requires Home Office etween 1000-1200 mm.
Architectural Notes	Licensing detailing and comm Doors to have peep holes on <u>Temp (</u> °C): Winter <u>220C</u> <u>Temp Variation</u> <u>+ 20C / Hour</u>	Drainage HDPE Chem Resist Electrical	Shelving (non-lab) and ceiling coatings to be Liqu	- id Plastic or similar. MEP des lear opening of leaf and half b Structural Loading Lab, normal	ign requires Home Office etween 1000-1200 mm.
Architectural Notes GINERRING HVAC Temp (² C): Summer 240C Temp 1 ² C): Summer 240C 240C Ventilation, supply	Licensing detailing and comm Doors to have peep holes on <u>Temp(</u> ^o C): Winter <u>22oC</u> <u>Temp Variation</u> <u>+ 2oC / Hour</u> <u>Ventilation, exhaust</u>	Drainage HDPE Chem Resist Electrical Power Supply	Shelving (non-lab) and ceiling coatings to be Liqu	- Id Plastic or similar. MEP des lear opening of leaf and half b Structural Loading Lab, normal Equipment	ign requires Home Office etween 1000-1200 mm.
Architectural Notes KGINEERING HVAC Temp [Co]: Summer 240C Temp Tolerance 4 20C Ventilation, supply Comfort Cooling	Licensing detailing and comm Doors to have peep holes on Temp (°C): Winter Z2CC Temp Variation ± 20c / Hour Ventilation, exhaust General & Dedicated	brainage HDPE Chem Resist 	Shelving (non-lab) and ceiling coatings to be Liqu	Id Plastic or similar. MEP des ear opening of leaf and half b Structural Loading Eduinment Data / AV / Comms	ign requires Home Office etween 1000-1200 mm.
Architectural Notes IGINEERING HVAC Imm Toterance ± 20C Ventilation, supply Comfort Cooling Humdity	Licensing detailing and comm Doors to have peep holes on <u>Temp (²C): Winter</u> <u>22oC</u> <u>Temp Variation</u> <u>42oC</u> / Hour <u>Ventilation exhaust</u> <u>General & Dedicated</u> <u>Air Pressure</u>	hissioning. **Clear opening of ly. HDPE Chem Resist 	Shelving (non-lab) and ceiling coatings to be Liqu	d Plastic or similar. MEP des lear opening of leaf and half b Structural Loading Lab, normal Esuigment - Data / AV / Comms Data / AV / Comms	ign requires Home Office etween 1000-1200 mm.
Architectural Notes KGINEERING HVAC Temp (Cc): Summer 24oC Temp Tolerance 4 2oC Ventilation, supply Comfort Cooling Humidity 554-1076 RH Centrally co	Licensing detailing and comm Doors to have peep holes on Temp (² C): Winter 220C Temp Variation ± 20C / Hour Ventilation, exhaust General & Dedicated Air Pressure ry Regative Airflow	brainage HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230x, trunking Cleaners outlets Fused Spur	Shelving (non-lab) and celling costings to be Liquid full leaf 800 mm minimum. C	d Plastic or similar. MEP des ear opening of leaf and half b Structural Lab, normal Equipment 	ign requires Home Office etween 1000-1200 mm.
Architectural Notes GINEERING HVAC Emm [70]: Summer 240C Yentlation, supply Comfort Cooling Humality S54-1.09k RH Centrally oc Ar Tittation	Licensing detailing and comm Doors to have peep holes on 220C The Winter 220C The Winter 220C Viour 220C Viour 200C Viour	hissioning. **Clear opening of ly. HDPE Chem Resist 	Shelving (non-lab) and ceiling coatings to be Liqu	id Plastic or similar. MEP des are opening of leaf and half be Structural Loading Lab, normal Eculorment 	ign requires Home Office etween 1000-1200 mm.
Architectural Notes HVAC HVAC 24oC Temp Tolerance 2 2oC Ventilation, supply Confort Cooling Humidity 554/-10% RH Centrally oc Air Fittation P Supply	Licensing detailing and comm Doors to have peep holes on Temp (² C): Winter 220C Temp Variation ± 20C / Hour Ventilation, exhaust General & Dedicated Air Pressure ry Regative Airflow	brainage HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Fused Spur Essential / Standby Power	Shelving (non-lab) and celling costings to be Liquid full leaf 800 mm minimum. C	d Plastic or similar. MEP des ear opening of leaf and half b Structural Lab, normal Equipment 	ign requires Home Office etween 1000-1200 mm.
Architectural Notes IGINEERING HVAC Temp Toferance ± 20C Comfort Cooling Humdity S54/-109k RH Centrally oc Ar Tittation P3 Supply Min Air Chanes	Licensing detailing and comm Doors to have peep holes on 220C The Winter 220C The Winter 220C Viour 220C Viour 200C Viour	brainage HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230x, trunking Cleaners outlets Fused Spur	Shelving (non-lab) and celling costings to be Liquid full leaf 800 mm minimum. C	- d Plastic or similar. MEP deserved en opening of leaf and half be structural Loading Lab, normal Equipment - Data / AV / Comms Data Data / Digital Projection -	ign requires Home Office etween 1000-1200 mm.
Architectural Notes HVAC HVAC 24oC Temp Tolerance 2 20C Ventilation, supply Confort Cooling Humidity 554/-10% RH Centrally oc Air Fittation P Supply	Licensing detailing and comm Doors to have peep holes on 220C The Winter 220C The Winter 220C Viour 220C Viour 200C Viour	brainage HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Fused Spur Essential / Standby Power	Shelving (non-lab) and celling costings to be Liquid full leaf 800 mm minimum. C	id Plastic or similar. MEP des are opening of leaf and half be Structural Loading Lab, normal Eculorment 	ign requires Home Office etween 1000-1200 mm.
Architectural Notes KGINEERING HVAC C): Summer 24oC Temp Tolerance 4 2oC Ventilation, supply Confort Cooling Humdity 55/-100K RH Centrally co Air Fittation P Supply Min.Air Changes 2o AC/HR	Licensing detailing and comm Doors to have peep holes on 220C The Winter 220C The Winter 220C Viour 220C Viour 200C Viour	Inisioning. **Clear opening or y. Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Fueed Symt Exected J Symt Executed J Stanky Power - Electrical Minteference	Shelving (non-lab) and celling costings to be Liquid full leaf 800 mm minimum. C	- d Plastic or similar. MEP deserved en opening of leaf and half be structural Loading Lab, normal Equipment - Data / AV / Comms Data Data / Data / Data Data Data Data / Data Data Data Data Data Data Data Data	ign requires Home Office etween 1000-1200 mm.
Architectural Notes GINEERING HVAC Isang (*Q): Summer 240C Emp Tolerance ± 20C Yentilation, supply Yentilation, supply GS-1/-10% RH Centrally oc Ar Tittation P3 Supply Min Air Charges 20 AC/HR Piped Services	Licensing detailing and comm Doors to have peep holes on 220C The Winter 220C The Winter 220C Viour 220C Viour 200C Viour	brainage HDPE Chem Resist HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Fused Spur Essential / Standby Power	Shelving (non-lab) and celling costings to be Liquid full leaf 800 mm minimum. C	- d Plastic or similar. MEP deserved en opening of leaf and half be structural Loading Lab, normal Equipment - Data / AV / Comms Data Data / Data / Data Data Data Data / Data Data Data Data Data Data Data Data	ign requires Home Office etween 1000-1200 mm.
Architectural Notes KGINEERING HVAC C): Summer 24oC Temp Tolerance 4 2oC Ventilation, supply Confort Cooling Humdity 55/-100K RH Centrally co Air Fittation P Supply Min.Air Changes 20 AC/HR Piped Services Water,	Licensing detailing and comm boors to have peep holes on Doors to have peep holes on <u>Temp (°C)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>Yentitation, onhaust</u> <u>Gaupment</u> <u>See Lab Equip</u>	bissioning. **Clear opening or y. Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Fund Spur Escential / Standby Power Est Interference Ed Interference Ughting	Shelving (non-lab) and celling coatings to be Liquid full leaf 800 mm minimum. C	Institut or similar. VHEP deside error opening of leaf and half be error opening	ign requires Home Office etween 100D-1200 mm.
Architectural Notes KGINEERING HVAC C): Summer 24oC Temp Tolerance 4 2oC Ventilation, supply Confort Cooling Humdity 55/-100K RH Centrally co Air Fittation P Supply Min.Air Changes 20 AC/HR Piped Services Water,	Licensing detailing and comm boors to have peep holes on Doors to have peep holes on <u>Temp (°C)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>Yentitation, onhaust</u> <u>Gaupment</u> <u>See Lab Equip</u>	sissioning. **Clear opening or print Drainage HDPE Chem Resist Electrical Porest Suitable Zearners Audies Cleaners Audies Zearners Audies Minaeference Ughting General Lighting Senticial	Shelving (non-lab) and ceiling coatings to be Liqu ful lead 800 mm minimum. C	de Plastic or similar. MEP des er opening of leaf and haft te er opening of leaf and haft te leading Lab, normal Equipment Data / AV / Comms Data / AV / Comms / Com	ign requires Home Office etween 1000-1200 mm. <u>Vibration Criteria</u> - - -
Architectural Notes KGINEERING HVAC C): Summer 24oC Temp Tobrance 4 2oC VentIation.supply Confort Cooling Humdity 55/-100% RH Centrally co Air Fittation F9 Supply Min.Air Changes 20 AC/HR Piped Services Water, Lab CW & HW	Licensing detailing and comm boors to have peep holes on Doors to have peep holes on <u>Temp (°C)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>Yentitation, onhaust</u> <u>Gaupment</u> <u>See Lab Equip</u>	instanting. **Clear opening or y. Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Fund Spur Executial / Standby Power Exertial / S	Shelving (non-lab) and celling coatings to be Liquid full leaf 800 mm minimum. Co	de Plastic or similar. MEP des er opening of leaf and haft te er opening of leaf and haft te leading Lab, normal Equipment Data / AV / Comms Data / AV / Comms / Com	ign requires Home Office etween 1000-1200 mm. <u>Vibration Criteria</u> - - -
Architectural Notes KGINEERING HVAC C): Summer 24oC Temp Tobrance 4 2oC VentIation.supply Confort Cooling Humdity 55/-100% RH Centrally co Air Fittation F9 Supply Min.Air Changes 20 AC/HR Piped Services Water, Lab CW & HW	Licensing detailing and comm boors to have peep holes on Doors to have peep holes on <u>Temp (°C)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>Yentitation, onhaust</u> <u>Gaupment</u> <u>See Lab Equip</u>	sissioning. **Clear opening or print Drainage HOPE Chem Resist Electrical Poers: South Electrical Poers: South Electrical Poers: South Electrical Poers: South Electrical Poers: South Electrical Poers: South Electrical Poers: South Electrical Poers: South Electrical Electrical Poers: South Electrical Electrical Electrical Electrical Poers: South Electrical Ele	Shelving (non-lab) and ceiling coatings to be Liqu ful leaf 800 mm minimum. C	de Plastic or similar. MEP des er opening of leaf and haft te er opening of leaf and haft te lading Ladinormal Equipment Data / AV / Comms Data / AV / Co	ign requires Home Office etween 1000-1200 mm. <u>Vibration Criteria</u> - - -
Architectural Notes GINEERING HVAC Temno Tolerance 420C Ummature 420C Comfort Cooling Humiday SS4-100K RH Centrally co Man Ar Changes Ar Intration 45 Supply 45 Articles 420C Water 420C Enged Services	Licensing detailing and comm boors to have peep holes on Doors to have peep holes on <u>Temp (°C)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>Yentitation, onhaust</u> <u>Gaupment</u> <u>See Lab Equip</u>	sissoning, "Clear opening or v.	Shelving (non-lab) and celling coatings to be Liquid full leaf 800 mm minimum. C	de Plastic or similar. MEP dei de de Plastic or similar. MEP de de plastic or similar. MEP de localizar. de de localizar. Structural Lab, normal Estainantes: Data / AV / Comms Data	ign requires Home Office etween 1000-1200 mm.
Architectural Notes GINEERING HVAC Tamp, CO: Summer 240C Tamp, To'D: Summer 240C Comfort Cooling Humidity S54-1-J0K RH Centrally oc Ar fitteation F9 Supply Min Arc Charges 20 AC/HR Piped Services Water Lab CW & HW Peed Services Utab CW & HW Peed Services Humidity State Services Humidity Services Hum	Licensing detailing and comm boors to have peep holes on Doors to have peep holes on <u>Temp (°C)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>Yentitation, onhaust</u> <u>Gaupment</u> <u>See Lab Equip</u>	sissoning. **Clear opening or yr.	Shelving (non-lab) and celling coatings to be liquid full leaf 800 mm minimum. Co	de Plastic or similar. MEP des er opening of leaf and haft te er opening of leaf and haft te lading Ladinormal Equipment Data / AV / Comms Data / AV / Co	ign requires Home Office exterent 1000-1200 mm.
Architectural Notes GINEERING HVAC Temno Tolerance 420C Ummature 420C Comfort Cooling Humiday SS4-100K RH Centrally co Man Ar Changes Ar Intration 45 Supply 45 Articles 420C Water 420C Enged Services	Licensing detailing and comm boors to have peep holes on Doors to have peep holes on <u>Temp (°C)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>Yentitation, onhaust</u> <u>Gaupment</u> <u>See Lab Equip</u>	sissoning, "Clear opening or v.	Shelving (non-lab) and celling coatings to be Liquid full leaf 800 mm minimum. C	Structural Structural Lab, normal Eadmin Data / AV / Comms Data Structural Evolution Structural Evolution Security Systems Evolution Security Systems Evolution Sincke Detector	ign requires Hone Office tween 1000-1200 mm.
Architectural Notes GINEERING HVAC Tamp, CO: Summer 240C Tamp, To'D: Summer 240C Comfort Cooling Humidity S54-1-J0K RH Centrally oc Ar fitteation F9 Supply Min Arc Charges 20 AC/HR Piped Services Water Lab CW & HW Peed Services Utab CW & HW Peed Services Humidity State Services Humidity Services Hum	Licensing detailing and comm boors to have peep holes on Doors to have peep holes on <u>Temp (°C)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC / Hour</u> <u>Yentitation, onhaust</u> <u>Gaupment</u> <u>See Lab Equip</u>	sissoning. **Clear opening or yr.	Shelving (non-lab) and celling coatings to be liquid full leaf 800 mm minimum. Co	Testice or similar. MEP declared team opening of leaf and half be dear opening declared team of the dear opening dear dear dear dear dear dear dear dear	ign requires Home Office letween 1000-1200 mm.
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LABORATORY FURNIT	URE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Movable	Trespa TopLab Plus	750mm		
	<u> </u>	-	-		
Other LF Elements	Above Lab Bench		Other Storage Units		
	Shelving, wall mtd	-	-	-	-
	·	-	-		-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PT	D included)
	Scrub Hand Wash Station	CW/HW/DI	Hands-free (sonar)	Splash Pnl & Dry Rack	-
	Sink- Epoxy (integral)	Lab CW & HW	Hands-free (sonar)	Splash Panel	-
LABORATORY EQUIPM	1ENT (ASE*) refer to MRC list				
			* ASE = Architecturally (/Engine	ering) Significant Equipment *	
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Downdraft Table	Leec	(Not always required)	900x900x900	-
	·				-
	Equipment	Name/Model	Quantity	Size	Furnish - Install*
	-				-
	-		-	-	-

CBS - IN-VIVO SURGICAL SUITE



PROPOSED PLAN - SURGERY AND PRE-OP ROOMS (LEVEL 1)

OXG - Oxygen Generator (underbench) ANS - Anaesthesia Unit (benchtop) IVR - IVC Recovery transport unit (floor standing) RFZ - Refrigirator/Freezer (underbench) LEB - Laboratory Sink Unit LFM - Mobile Cupboard Unit (underbench) LFF - Storage Unit (floor standing) SCR - Scrab Sink SST - Surgical Station

MRC LMS Stage 2 Report - Section 4

Operating Theatre - S	Surgical Room				
operating meaners	Pre and post operation zone	·s.			CBS Procedure Room
					First Floor
ENERAL	Name and Associated Street	Occupants	Davies In Line	Freedlike Ant Consultance	Manager
IENERAL	Nominal Area 15 nsm	tbc	Hours in Use Extended Hours	Equality Act Compliance Compliant	Not Required
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological	Noise	
	ACDF CL2	NU	biological	140136	
RCHITECTURAL			Doors		
Sound Attenuation	Intern Ambient Noise (dBA) See arch. note below	Mechanical Noise (NR) See arch. note below	Type	Type 1 Single Door	Type 2
Floors	Type 1 - 100%	Type 2 - Not Used	Size	900 mm	
Construction	50mm Screed	THE E HOLDER	Operation	Sliding - sensor operated	
Floor Finish	Vinyl		Door Material	Glass/Polymer Frame	-
Skirting	150mm coved	-	Door Finish	Glass	-
			Frame Material	Polymer-clad	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Polymer-clad	-
Construction	Blockwork	-	Locks	Access Control	-
Finish	Sikaguard coating	-	Closers	Sliding Closer	-
Protection	Wall + Corner Guards	-	Vision Pnl	-	-
			Protection	-	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-
System	Special System	<u> </u>	Other	-	-
Finish	Special Details	<u> </u>			
Features	Washable	<u> </u>	Window Coverings	At Façade	Internal
Height	<u> </u>	<u> </u>	Туре	Roller Blinds	<u> </u>
			Light Control	Solar & Grey-out	
Accessories (non-Lab)	Items	Notes	Operation Manifestations / Film	Manual	
			wiannestations / min		
				Shalf	Notor
	- - - Access via Pre-op. Wall and Attenuation. Doors: ** Clean	ceiling coatings to be Liquid P	Shelving (non-lab)	<u>Shelf</u> - - and Attenuation: Acoustic cons and half between 1000-1200 r	Notes ultant to advise on Sound mm. Doors to have peep
Architectural Notes	- - - Access via Pre-op. Wall and Attenuation. Doors: ** Clear holes only, to stop light blee	opening of full leaf 800 mm	Shelving (non-lab)	- nd Attenuation: Acoustic cons	ultant to advise on Sound
	Attenuation. Doors: ** Clean	opening of full leaf 800 mm	Shelving (non-lab)	- nd Attenuation: Acoustic cons	ultant to advise on Sound
NGINEERING HVAC	Attenuation. Doors: ** Clean holes only, to stop light blee	r opening of full leaf 800 mm i d. Drainage	Shelving (non-lab)	nd Attenuation: Acoustic cons and half between 1000-1200 r	ultant to advise on Sound
NGINEERING HVAC Temp (°C): Summer	Attenuation. Doors: ** Clear holes only, to stop light bleer <u>Temp (</u> °C): Winter	r opening of full leaf 800 mm r d.	Shelving (non-lab)		ultant to advise on Sound
NGINEERING HVAC Temp(^o C): Summer 22oC	Attenuation. <i>Doors:</i> ** Clean holes only, to stop light bleen <u>Temp.1</u> °C): Winter 22oC	r opening of full leaf 800 mm i d. Drainage	Shelving (non-lab)		ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC <u>Temp(</u> °C): Summer 220C <u>Temp Tolerance</u>	Attenuation. Doors: ** Clean holes only, to stop light blees Temp (°C): Winter 22oC Temp Variation	opening of full leaf 800 mm i d. Drainage HDPE Chem Resist	Shelving (non-lab)		ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC <u>Temp[</u> °C): Summer 22oC <u>Temp Tolerance</u> ± 2oC	Attenuation. Doors: ** Clean holes only, to stop light blees Temp (^o C): Winter 22oC Temp Variation ± 20C	opening of full leaf 800 mm i d. Drainage HDPE Chem Resist Electrical	Shelving (non-lab)		ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Temp1°C): Summer 22oC Temp Tolerance ± 2oC Ventilation, supply	Attenuation. Doors: ** Clean holes only, to stop light blees <u>Temp (^CC)</u> : Winter <u>22oC</u> <u>Temp Variation</u> <u>± 2oC</u> <u>Ventilation, exhaust</u>	opening of full leaf 800 mm d. Drainage HDPE Chem Resist Electrical Power Supply	Shelving (non-lab)	- nd Attenuation: Acoustic cons and half between 1000-1200 r Structural Loading Lab, normal Equipment	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Temp (°C): Summer 220C Temp Tolerance ± 20C Ventilation, supply Comfort Cooling	Attenuation. Doors: ** Clean holes only, to stop light blees Temp °C): Winter Z2oC Temp Variation ± 2oC Ventilation, exhaust General & Dedicated	opening of full leaf 800 mm i d. Drainage HDPE Chem Resist - Electrical Power Supply 230y, trunking	Shelving (non-lab)	nd Attenuation: Acoustic cons and half between 1000-1200 r Structural Lab, normal Equipment	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 20C Ventilation, supply Comfort Cooling Humidity	Attenuation. Doors: ** Clean holes only, to stop light blees <u>Temp (²C)</u> : Winter <u>220C</u> <u>Temp Variation</u> <u>4: 20C</u> <u>Veriflation, enhauti</u> <u>General & Dedicated</u> <u>Air Pressure</u>	opening of full leaf 800 mm d. Drainage HDPE Chem Resist Electrical Power Supply	Shelving (non-lab)	- nd Attenuation: Acoustic cons and half between 1000-1200 r Structural Leading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Temp_(² C): Summer 22oC Temp Tolerance ± 2.oC Ventilation.supply Comfort Cooling Humitity Solv/-15% RH	Attenuation. Doors: ** Clean holes only, to stop light blee <u>Temp (²C)</u> : Winter <u>ZooC</u> <u># 20C</u> <u>Yendlation</u> exhaust <u>General & Dedicated</u> <u>Air Presure</u> Positive Airflow	opening of full leaf 800 mm i d. Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets	Shelving (non-lab) Istric/Shaguard or similar. Sou ininimum. Clear opening of lead	nd Attenuation: Acoustic cons and half between 1000-1200 or Structural Loading Lab, normal Equipment	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Z2oC Temp Tolerance 4 20C Ventilation.surph Comfort Cooling Humidity SDY-135% RH Air Filtration	Attenuation. Doors: ** Clean holes only, to stop light blee <u>7 cmmp //</u> C): Winter <u>7 200 C</u> <u>7 cmm Variation</u> <u>4 200 Ventilation, exhaust</u> <u>6 central & Dedicated</u> <u>Air Pressure</u> <u>Positive Airflow</u> <u>Eudepment</u>	opening of full leaf 800 mm i d. Drainage HDPE Chem Resist - Electrical Power Supply 230y, trunking	Shelving (non-lab)	d Attenuation: Acoustic conv and half Detween 1000-1200 // Structural Loading Lab, normal Eculoment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Tenng ² (2): Summer <u>220C</u> <u>4 20C</u> <u>4 20C</u> <u>4 20C</u> <u>5 20C</u> <u>5 20C</u> <u>5 00/-15% RH</u> <u>Air fitration</u> H10 Supply	Attenuation. Doors: ** Clean holes only, to stop light blee <u>Temp (²C)</u> : Winter <u>ZooC</u> <u># 20C</u> <u>Yendlation</u> exhaust <u>General & Dedicated</u> <u>Air Presure</u> Positive Airflow	opening of full leaf 800 mm r d. Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	Shelving (non-lab) Istric/Shaguard or similar. Sou ininimum. Clear opening of lead		ultant to advise on Sound nm. Doors to have peep
Scincering HVAC Temp_1 ⁶ C): Summer 22oC Temp Tolerance ± 2oC Ventilation, supply Min Air Charges	Attenuation. Doors: ** Clean holes only, to stop light blee <u>7 cmmp //</u> C): Winter <u>7 200 C</u> <u>7 cmm Variation</u> <u>4 200 Ventilation, exhaust</u> <u>6 central & Dedicated</u> <u>Air Pressure</u> <u>Positive Airflow</u> <u>Eudepment</u>	opening of full leaf 800 mm i d. Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets	Shelving (non-lab) Istric/Shaguard or similar. Sou ininimum. Clear opening of lead	md Attenuation: Acoustic consi and half between 1000-1200 m Structural Loading Lab, normal Equipment	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Tenng Tolers. Summer 220C Ventilation, supply Confort Cooling Humidity 504/-15% RH Air Fitration H1D Supply Min Air Changes J A C/H (Occupied)	Attenuation. Doors: ** Clean holes only, to stop light blee <u>7 cmmp //</u> C): Winter <u>7 200 C</u> <u>7 cmm Variation</u> <u>4 200 Ventilation, exhaust</u> <u>6 central & Dedicated</u> <u>Air Pressure</u> <u>Positive Airflow</u> <u>Eudepment</u>	opening of full leaf 800 mm r d. Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	Shelving (non-lab) Istric/Shaguard or similar. Sou ininimum. Clear opening of lead	d Attenuation: Acoustic conv and half Detween 1000-1200 // Structural Loading Lab, normal Eculoment Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Temma (²)C): Summer 220C Marking (Comparison) ± 20C Ventilation, supply Comfort Cooling Hummätty 504/-155% RH Art Filtration H10 Supply Min Air Charges 17 AC/HR (Occupied) Piped Services	Attenuation. Doors: ** Clean holes only, to stop light blee <u>7 cmmp //</u> C): Winter <u>7 200 C</u> <u>7 cmm Variation</u> <u>4 200 Ventilation, exhaust</u> <u>6 central & Dedicated</u> <u>Air Pressure</u> <u>Positive Airflow</u> <u>Eudepment</u>	opening of full ked 800 mm id d Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Essential / Standby Power Electrical power Supply Power Electrical powe	Shelving (non-lab) Istric/Shaguard or similar. Sou ininimum. Clear opening of lead	md Attenuation: Acoustic consi and half between 1000-1200 m Structural Loading Lab, normal Equipment	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVLAC Temos [¹ C]: Summer 22oC = 100 (¹ C): Summer 22oC = 100 (¹ C): Summer 22oC = 200 (¹ C): Summer 22oC = 200 (¹ C): Summer 200	Attenuation. Doors: ** Clean holes only, to stop light blee Z2oC Temp Qiraliston 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sogaly Zalow, trunking Cleaners outlets Escential Standby Power Estimated Standby Power Estimated Standby Power Uphting Uphting Uphting	Shelving (non-lab) Istric/Shaguard or similar. Sou ininimum. Clear opening of lead	md Attenuation: Acoustic cons and half between 1000-1200 r Structural Loaking Lab, normal Equipment Data / AV / Comms Data / AV / Comms / Co	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Temma (²)C): Summer 220C Marking (Comparison) ± 20C Ventilation, supply Comfort Cooling Hummätty 504/-155% RH Art Filtration H10 Supply Min Air Charges 17 AC/HR (Occupied) Piped Services	Attenuation. Doors: ** Clean holes only, to stop light blee <u>7 cmmp //</u> C): Winter <u>7 200 C</u> <u>7 cmm Variation</u> <u>4 200 Ventilation, exhaust</u> <u>6 central & Dedicated</u> <u>Air Pressure</u> <u>Positive Airflow</u> <u>Eudepment</u>	opening of full ked 800 mm id d Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Essential / Standby Power Electrical power Supply Power Electrical powe	Shelving (non-lab) Isatic/Shaguard or similar. Soo Isatic/Shag	- and Attenuation: Acoustic conv and half between 1000-1200 // Structural Loading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Common / Comms Data / AV / Comms Common / Comms Data / AV / Comms Common / Common / Commo	ultant to advise on Sound mn. Doors to have peep <u>Vibration Criteria</u>
NGINEERING HVLAC Temos [¹ C]: Summer 22oC = 100 (¹ C): Summer 22oC = 100 (¹ C): Summer 22oC = 200 (¹ C): Summer 22oC = 200 (¹ C): Summer 200	Attenuation. Doors: ** Clean holes only, to stop light blee Z2oC Temp Qraition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drainage HDPE Chem Resist HDPE Chem Resist Communication HDPE Chem Resist Communication HDPE Chem Resist Communication Cleaners outles Cleaners outles Cleaners outles Cleaners Utabling Utabling Utabling	Shelving (non-lab) lastic/Skaguard or similar. Soci ininimum. Clear opening of lead	md Attenuation: Acoustic cons and half between 1000-1200 r Structural Loaking Lab, normal Equipment Data / AV / Comms Data / AV / Comms / Co	ultant to advise on Sound nm. Doors to have peep
NGINEERING HVAC Temma [¹ C): Summer 22oC Herman Tolerance 4 20C Wentlanden, sunsky Wentlanden, sunsky Wentlanden, sunsky Wentlanden, sunsky Mitter Solv-1358 RH Mar Furdances 20 AC/HR (Changes 21 A CL/HR (C	Attenuation. Doors: ** Clean holes only, to stop light blee Z2oC Temp Qraition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Porest Sealed Zahy, trunking Cleaners coulets Cleaners coulets Cleaners coulets Minareference Uighting General Lighting Seatching	Shelving (non-lab) Isatic/Shaguard or similar. Soo Isatic/Shag	- and Attenuation: Acoustic conv and half between 1000-1200 // Structural Loading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Common / Comms Data / AV / Comms Common / Comms Data / AV / Comms Common / Common / Commo	ultant to advise on Sound mn. Doors to have peep <u>Vibration Criteria</u>
NGINEERING HVAC Temp_1 ² (2): Summer 220C Temp_10 ² (2): Summer 220C WentBation, supply Comfort Cooling Hundlity Solv-15% RH Hundlity Solv-15% RH Art Fitration Hundlity Min Art Chargest 17 AC/Ht (Occupied) Piped Services Water Lab CW & HW	Attenuation. Doors: ** Clean holes only, to stop light blee Z2oC Temp Qraition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drainage HDPE Chem Resist Electrical Power Sogaly 2300, trunking Cleaners outlets Escretizi / Sandby Power Estimated To Sandby Power	Shelving (non-lab) Isatic/Shaguard or similar. Soo Isatic/Shag	- and Attenuation: Acoustic conv and half between 1000-1200 // Structural Loading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Common / Comms Data / AV / Comms Common / Comms Data / AV / Comms Common / Common / Commo	ultant to advise on Sound mn. Doors to have peep <u>Vibration Criteria</u>
NGINEERING HVAC Temos [10]: Summer 220C Imma Tolerance ± 20C Wendarition, supply Wendarition, supply Wendarition, supply Min Air Changes 300-1375 & RH Most Changes JA AC/HR (Occupied) Piped Services Water Lab CUW & HW 	Attenuation. Doors: ** Clean holes only, to stop light blee Z2oC Temp Qraition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Porest Sealed Zahy, trunking Cleaners coulets Cleaners coulets Cleaners coulets Minareference Uighting General Lighting Seatching	Shelving (non-lab) Isatic/Shaguard or similar. Soo Isatic/Shag	- and Attenuation: Acoustic conv and half between 1000-1200 // Structural Loading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Common / Comms Data / AV / Comms Common / Comms Data / AV / Comms Common / Common / Commo	ultant to advise on Sound mn. Doors to have peep <u>Vibration Criteria</u>
NGINEERING HVAC Temos [10]: Summer 220C Imma Tolerance ± 20C Wendation, supply Wendation, supply Min Air Changes 300-1355 Ref 300-1355 Ref Marca Changes JA AC/HR (Occupied) Piped Services Water Lab CW & HW 	Attenuation. Doors: ** Clean holes only, to stop light blee Z2oC Temp Qraition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drainage HOPE Chem Resist HOPE Chem Resist Electrical Power Sought Zalov, transler Electrical Electrical Electrical Electrical Electrical Cleaners outlets Electrical Cleaners outlets Electrical Electrical Cleaners outlets Electrical Electrical Cleaners outlets Electrical Ele	Shelving (non-lab) lastic/Skaguard or similar. Soci ininimum. Clear opening of lead	md Attenuation: Acoustic conv and half between 1000-1200 r Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV /	ultant to advise on Sound mn. Doors to have peep <u>Vibration Criteria</u>
NGINEERING HVAC Temp [² C): Summer <u>22oC</u> Imm Tolerance <u>4 2oC</u> Mentlation, supply Wentlation, supply Min Air Changet Min Air	Attenuation. Doors: ** Clean holes only, to stop light blee Z2oC Temp Qraition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sogaly Zalow, trunking Cleaners outlets Escettal / Sandby Power Eschertal / Sandby Power Sandbards Sandbards Data Data Data Data Data Data Data Dat	Shelving (non-lab) lastic/Skaguard or similar. Sola lastic/Skaguar	md Attenuation: Acoustic cons and half between 1000-1200 r Structural Loading Lab, normal Edualments Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Data Pata / AV / Comms Data Edualments Security Systems Se	viteration Criteria viteration Criteria
NGINEERING HVAC Temps1 ⁽²⁾ : Summer <u>72oC</u> films Tolerance <u>+ 2oC</u> Mentation, supply Comfort Cooling Humadity Data Fination, HD Supply Min Al Changes Min Al Changes JA AC/HR (Rocc) Piped Services Water. Lab CV & HW 	Attenuation. Doors: ** Clean holes only, to stop light blee Z2oC Temp Qraition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drainage HDPE Chem Resist HDPE Chem Resist HDPE Chem Resist Electrical Power Soady Zalov, trunking Cleaners outlets Essential Standby Power EM Interference Uighting Sandby Control Other Lighting Single Control Other Lighting	Shelving (non-lab) lastic/Skaguard or similar. Sou lastic/Skag	md Attenuation: Acoustic cons and half between 1000-1200 r Structural Loading Lab, normal Edualments Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Data Pata / AV / Comms Data Edualments Security Systems Se	Ultant to advise on Sound m. Doors to have peep <u>Vibration Criteria</u> - - - - - - - - - - - - -
NGINEERING HVAC Temps1 ⁽²⁾ : Summer <u>72oC</u> films Tolerance <u>+ 2oC</u> Mentation, supply Comfort Cooling Humadity Data Fination, HD Supply Min Al Changes Min Al Changes JA AC/HR (Rocc) Piped Services Water. Lab CV & HW 	Attenuation. Doors: ** Clean holes only, to stop light blee Z2oC Temp Qraition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drainage HDPE Chem Resist HDPE Chem Resist HDPE Chem Resist Electrical Power Soady Zalov, trunking Cleaners outlets Essential Standby Power EM Interference Uighting Sandby Control Other Lighting Single Control Other Lighting	Shelving (non-lab) lastic/Skaguard or similar. Solution lastic/Skaguard or similar. S	md Attenuation: Acoustic cons and half between 1000-1200 r Structural Lab, normal Equipment: Data / AV / Comms Data / Societaria Security / Ufe Safety Security / Sustems Ence Detection Smoke Detector	Viteration Criteria Viteration Criteria Alarm Systems Alarm Systems CCTV Camera PTZ

LABORATORY FURNIT	URE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Fixed Base	Trespa Toplab Base	750mm		
		- <u> </u>	-		
Other LF Elements	Above Lab Bench		Other Storage Units		
	-	-	-	-	-
	-	-	-	-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD,	PTD included)
	Sink- Epoxy (integral)	Lab CW & HW	Hands-free (sonar)		Splash Pnl & Dry Ra
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	
LABORATORY EQUIPN	IENT (ASE*) refer toMRC list				
			* ASE = Architecturally (/Engin	eering) Significant Equipmen	t ** O = Owner C = Contrac
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	<u> </u>				<u> </u>
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
					- <u>-</u>

perating Theatre - F	Pre-On Room				
perating meatre - i	Desription of Lab and its ope	rations		1	CBS Procedure R
					First Floor
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	18 nsm	tbc	Full 24 hour use	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological	Noise	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	÷	Operation	Swinging	-
Floor Finish	Vinyl	÷	Door Material	Timber- Solid Core	-
Skirting	150mm coved	-	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork	-	Locks	Access Control	-
Finish	Sikaguard coating	<u> </u>	Closers	Closer	-
Protection	Wall + Corner Guards	-	Vision Pnl	Peep Hole Only	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-
System	Special System	-	Other	-	-
Finish	Special Details	-			
Features	Washable	-	Window Coverings	At Façade	Internal
Height	-	-	Туре	Roller Blinds	-
			Light Control	Solar & Grey-out	-
	Items	Notes	Operation	Manual	-
Accessories (non-Lab)					
Accessories (non-Lab)			Manifestations / Film	-	-
Accessories (non-Lab)	Bench seating		Manifestations / Film	<u> </u>	-
Accessories (non-Lab)				Shelf	- Notes
	Bench seating Wall and ceiling coatings to t ** Clear opening of full leaf 8		Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ad ing of leaf and half between 10	Open, wall-mtd	n Sound Attenuation. B
Accessories (non-Lab) Architectural Notes	Bench seating Wall and ceiling coatings to b		Shelving (non-lab)	Open, wall-mtd	n Sound Attenuation. B
Architectural Notes	Bench seating Wall and ceiling coatings to t ** Clear opening of full leaf 8	800 mm minimum. Clear oper	Shelving (non-lab)	Open, wall-mtd coustic consultant to advise o 000-1200 mm. Doors to have	n Sound Attenuation. B
Architectural Notes	Bench seating Wall and ceiling coatings to b +* Clear opening of full leaf a bleed.	800 mm minimum. Clear oper Drainage	Shelving (non-lab)	Open, wall-mtd coustic consultant to advise o 100-1200 mm. Doors to have	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Temp(² C): Summer	Bench seating	800 mm minimum. Clear oper	Shelving (non-lab)	Open, wall-mtd coustic consultant to advise o 000-1200 mm. Doors to have	n Sound Attenuation. B
Architectural Notes	Bench seating Bench seating Wall and ceiling coatings to the second s	800 mm minimum. Clear oper Drainage	Shelving (non-lab)	Open, wall-mtd coustic consultant to advise o 300-1200 mm. Doors to have Structural Loading	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes	Bench seating Wall and ceiling coatings to to t* Clear opening of full leaf to bleed. <u>Temp (²C): Winter</u> <u>220C</u> <u>Temp Variation</u>	B00 mm minimum. Clear oper Drainage HDPE Chem Resist	Shelving (non-lab)	Open, wall-mtd coustic consultant to advise o 100-1200 mm. Doors to have	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes	Bench seating Bench seating Wall and ceiling coating to it 'Clear opening of full leaf I bleed. Temp_I^CC): Winter 22oC Temp Variation 4 2oC	Drainage HDPE Chem Resist 	Shelving (non-lab)	Open, wall-mtd coustic consultant to advise o 300-1200 mm. Doors to have Structural Loading	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Temp (¹ C): Summer <u>220C</u> <u>120C</u> <u>420C</u> <u>420C</u> <u>420C</u> <u>420C</u>	Bench seating Wall and ceiling coatings to it t* Clear opening of full leaf to t* Clear opening of full leaf to temp (² C): Winter <u>Z2oC</u> Ventilation chaust	Drainage HDPE Chem Resist	Shelving (non-lab)	Open, wall-mtd Oustic consultant to advise o Output	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC ZooC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling	Bench seating	Drainage HDPE Chem Resist 	Shelving (non-lab)	Open, wall-mtd Open, wall-mtd Oustic consultant to advise o NO0-1200 mm. Doors to have Structural Loading - Equipment - Data / AV / Comms	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Immg/for. Summer 220C 4 Ventilation, supply Comfort Cooling Humgilty	Bench seating	Drainage HDPE Chem Resist	Shelving (non-lab)	Open, wall-mtd Oustic consultant to advise o Output	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes HVAC Temp[*O]: Summer 22oC Temp Toterance 4 20C Ventilation, supply Comfort Cooling Humitity 504/-15% RH	Bench seating	Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: As ing of leaf and half between 10	Open, wall-mtd Open, wall-mtd Oustic consultant to advise o NO0-1200 mm. Doors to have Structural Loading - Equipment - Data / AV / Comms	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Immp To 220C Immp To 20C Yentlation, supply Ventilation, supply Comfort Cooling Hummithy 504-135% RH Arr Filtration	Bench seating	Drainage HDPE Chem Resist 	Shelving (non-lab)	Open, wall-mtd oustic consultant to advise o 000-1200 mm. Doors to have Structural Loading - Eulopment - Data / AV / Comms Data / AV / Comms -	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes HVAC HVAC <u>Temp (⁷</u> C): Summer <u>22oC</u> <u>Temp Totrance</u> <u>4 2oC</u> <u>Ventilation, supply</u> <u>Confort Cooling</u> <u>Humility</u> <u>504/-155 RH</u> <u>Air Filtration</u> F9 Supply	Bench seating	Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: As ing of leaf and half between 10	Open, wall-mtd Open, wall-mtd Oustic consultant to advise o NO0-1200 mm. Doors to have Structural Loading - Equipment - Data / AV / Comms	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Imma (² C): Summer Z20C Ventilation, supply Ventilation, supply Ventilation (⁴ / ²	Bench seating	Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: As ing of leaf and half between 10	Open, wall-mtd Open, wall-mtd Open, wall-mtd Open 200 mm. Doors to have a Structural Loading	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Temp[70]: Summer 22oC TempToferance 4 2oC Ventilation, supply Confort Cooling Humitity 504/-155 RH Arr Filtration F9 Supply Min Ar Changes 17 AC/HR (Occupied)	Bench seating	Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: As ing of leaf and half between 10	Open, wall-mtd oustic consultant to advise o 000-1200 mm. Doors to have Structural Loading - Eulopment - Data / AV / Comms Data / AV / Comms -	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Imma (² C): Summer Z20C Ventilation, supply Ventilation, supply Ventilation (⁴ / ²	Bench seating	Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: As ing of leaf and half between 10	Open, wall-mtd Open, wall-mtd Open, wall-mtd Open 200 mm. Doors to have a Structural Loading	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Temp[70]: Summer 22oC TempToferance 4 2oC Ventilation, supply Confort Cooling Humitity 504/-155 RH Arr Filtration F9 Supply Min Ar Changes 17 AC/HR (Occupied)	Bench seating	Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: As ing of leaf and half between 10	Open, wall-mtd Open, wall-mtd Open, wall-mtd Open 200 mm. Doors to have a Structural Loading	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Temps (°C): Summer Z20C Ventilation.supply Ventilation.supply Ventilation.supply Gonfort Cooling Hymnighty 50-4-15% RH dr Filtration F9 Supply Min Ar Changes 17 AC/HR (Occupied) 17 AC/HR (Occupied)	Bench seating	Drahage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: As ing of leaf and half between 10	Open, wall-mtd Open, wall-mtd Open, wall-mtd Open 200 mm. Doors to have a Structural Loading	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Temp[70]: Summer 22oC Temp Toferance 4 20C Ventilation, supply Comfort Cooling Humidity 504/-155 RH Air Fitration F9 Supply Min.Ar Charges 17 AC/HR (Coupled) Piped Services Water	Bench seating	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sought Zalow, trunking Cleaners outlets Estential / Stantby Power Estimation Stantby Power Utghting Utghting	Shelving (non-lab) similar. Sound Attenuation: Attenuatio	Open, wall-mtd outil: contuitant to advise o Oli 200 mm. Doers to hive o Structural Loading Equipment Data / AV / Comms D	n Sound Attenuation. <i>D</i> peep holes only, to sto
Architectural Notes VGINEERING HVAC Temp[70]: Summer 22oC Temp Toferance 4 20C Ventilation, supply Comfort Cooling Humidity 504/-155 RH Air Fitration F9 Supply Min.Ar Charges 17 AC/HR (Coupled) Piped Services Water	Bench seating	Drahage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: At a imilar. Sound Attenuation: At a imilar sound half between 10	Open, wall-mtd Ovo 1200 mm. Dows to have a Structural Loading Data / AV / Comms Data / Societa Security / Life Safety	n Sound Attenuation. D prep holes only, to stop <u>Vibration Critéria</u>
Architectural Notes VGINEERING HVAC Temp [*O]: Summer 22oC Temp Toferance 4 2oC Ventilation, supply Comfort Cooling Humidity 504/-15% RH Air Fitration F9 Supply Min Ar Changes TA C/HR (Occupied) Piped Services Vater Lab CV & HW	Bench seating	Drainage HDPE Chem Resist Electrical Power Soughy 230, trunking Cleaners outlets Electrical Power Soughy 230, trunking Cleaners outlets Electrical Power Soughy Essential / Sandhy Power Electrical Electrical Cleaners outlets Electrical Cleaners outlets Electrical Electrical Cleaners outlets Electrical Cleaners outlets Electrical	Shelving (non-lab) similar. Sound Alternation: As ing of leaf and half between 10	Open, wall-mtd Ovo 1200 mm. Dows to have a Structural Loading Data / AV / Comms Data / Societa Security / Life Safety	n Sound Attenuation. D prep holes only, to stop <u>Vibration Critéria</u>
Architectural Notes VGINEERING HVAC ZoC Temp Tokrance ± 2oC VentBition, supply Comfort Cooling HumiBity 504/-15% RH Air Fitration F9 Supply Min.Ar Changes Lab CVW & HW TJ AC/HR (Occupied) Piped Services Vater Lab CW & HW Elped Services	Bench seating	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Poort Suguly 230v, transite Electrical Electr	Shelving (non-lab) similar. Sound Alternation: As ing of leaf and half between 10	Open, wall-mtd Ovo 1200 mm. Dows to have a Structural Loading Data / AV / Comms Data / Societa Security / Life Safety	n Sound Attenuation. D prep holes only, to stop <u>Vibration Critéria</u>
Architectural Notes VGINEERING HVAC Temp Tolerance 220C Ventilation, supply Ventilation, supply Ventilation, supply Ventilation F9 Supply Min Ar Chargess 17 AC/HR (Occupied) 17 AC/HR (Occupied) Lab CV & HW Pped Services	Bench seating	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Poort Suguly 230v, transite Electrical Electr	Shelving (non-lab) similar. Sound Alternation: As ing of leaf and half between 10	Open, wall-mtd Ovo 1200 mm. Dows to have a Structural Loading Data / AV / Comms Data / Societa Security / Life Safety	n Sound Attenuation. D prep holes only, to stop <u>Vibration Critéria</u>
Architectural Notes VGINEERING HVAC Tenng ^(C) : Summer 220C Tenn Torisance 4 20C Ventilation, supply Ventilation, supply Gom/ort Cooling Humidity S0-/155/kBH Auf Elitation P3 Supply Auf Elitation P3 Supply Lab CW & HW Tentes Ventilation Tentes Tentes Compressed Air Nitrogen	Bench seating	Drainage HDPE Chem Resist Edition HDPE Chem Resist Edition HDPE Chem Resist Edition Editorial Power Souths Editorial Single Control Other Liphting Editorial	Shelving (non-lab) similar. Sound Attenuation: At go faal and half between 10	Open, wall-mtd Open, wall-mtd Out 200 mm. Doors to have Structural Loading - - Guidenment Data / AV / Comms Comms Data / AV / Comms Security Options Security Options Comms Comms Security Options Comms Comm Comms Comm	n Sound Attenuation: D n Sound Attenuation: D Vibration Criteria - - - Alarm Systems -
Architectural Notes VGINEERING HVAC ZoC Temp Tokrance ± 2oC VentBition, supply Comfort Cooling HumiBity 504/-15% RH Air Fitration F9 Supply Min.Ar Changes Lab CV& 8 HW Elbed Services Vater Lab CW & HW Elbed Services	Bench seating	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Poort SogDit SogDit Electrical Poort SogDit Poort S	Shelving (non-lab) similar. Sound Attenuation: At sound Attenuation: Attenuation sound Attenuation Attenuation sound Attenuation sound Attenuation attenuation sound Attenuation atten	Open, wall-mtd Open, wall-mtd Out 200 mm. Doors to have Structural Loading - - Guidenment Data / AV / Comms Comms Data / AV / Comms Security Options Security Options Comms Comms Security Options Comms Comm Comms Comm	n Sound Attenuation. D prep holes only, to stop <u>Vibration Critéria</u>
Architectural Notes VGINEERING HVAC Tenng ^(C) : Summer 220C Tenn Torisance 4 20C Ventilation, supply Ventilation, supply Gom/ort Cooling Humidity S0-/155/kBH Auf Elitation P3 Supply Auf Elitation P3 Supply Lab CW & HW Tentes Ventilation Tentes Tentes Compressed Air Nitrogen	Bench seating	Drainage HDPE Chem Resist Edition HDPE Chem Resist Edition HDPE Chem Resist Edition Editorial Power Souths Editorial Single Control Other Liphting Editorial	Shelving (non-lab) similar. Sound Attenuation: At ing of leaf and half between 10	Open, wall-mtd outeit consultant to advice o Structural Landing Eaulyment Data / AV / Comms Data / AV /	Alarm Systems Alarm Systems CTM CTM
Architectural Notes VGINEERING HVAC Tenng ^(C) : Summer 220C Tenn Torisance 4 20C Ventilation, supply Ventilation, supply Gom/ort Cooling Humidity S0-/155/kBH Auf Elitation P3 Supply Auf Elitation P3 Supply Lab CW & HW Tentes Ventilation Tentes Tentes Compressed Air Nitrogen	Bench seating	Drainage HDPE Chem Resist Edition HDPE Chem Resist Edition HDPE Chem Resist Edition Editorial Power Souths Editorial Single Control Other Liphting Editorial	Shelving (non-lab) similar. Sound Attenuation: At similar. Sound Attenuation: At similar. Sound Attenuation: At similar. Sound Attenuation: At similar. Sound Attenuation Lux Levels. Sound Lux Detection Ballast Type Ballast Typ	Open, wall-mtd Open, wall-mtd Out 200 mm. Doors to have Structural Loading - - Guidenment Data / AV / Comms Comms Data / AV / Comms Security Options Security Options Comms Comms Security Options Comms Comm Comms Comm	n Sound Attenuation: D n Sound Attenuation: D Vibration Criteria - - - Alarm Systems -

LABORATORY FURNIT	URE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	-				
Other LF Elements	Above Lab Bench		Other Storage Units		
	-	-	-		-
	<u>.</u>	-			
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD,	PTD included)
	Surgical Trough Sink	CW Only	Hands-free (sonar)	-	<u> </u>
LABORATORY EQUIPM	1ENT (ASE*) refer to MRC li	st			
			* ASE = Architecturally (/Engin		
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				- <u> </u>
	· · · · · · · · · · · · · · · · · · ·	-			
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
		-			-

CBS - IN-VIVO CARDIAC ROOM AND ELECTROPHYSIOLOGY



PROPOSED PLAN - CARDIAC (IN-VIVO) ROOM (LEVEL 1)

ECD - Echocardiogram IVC - Individually Ventilated Cage Rack AHU - Air Handling Unit ANU - Anaesthetic Unit SCG - Scavenging Unit MPP - Micropipette Puller MHC - Magnet Heater Control HWS - Hand Wash Station LEB - Laboratory Sink

LEB - Laboratory Sink LFM - Mobile Cupboard Unit (underbench)

MRC LMS Stage 2 Report - Section 4



PROPOSED PLAN - E-PHYS (IN-VIVO) ROOM (LEVEL 1)

ERG - Electrophysiology Rig DDT - Downdraft Bench ELR - Electronic Equipment Rack

HWS - Hand Wash Station LEB - Laboratory Sink LEB - Laboratory Sink LFM - Mobile Cupboard Unit (underbench) VIM - Vibratome

ardiac - In-vivo					
ardiac - m-vivo	Desription of Lab and its ope	rations			CBS Procedure Roo First Floor
ENERAL	Nominal Area 17 nsm	Occupants tbc	Hours in Use Full 24 hour use	Equality Act Compliance Compliant	Natural Light Not Required
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological	<u> </u>	
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA) See arch. note below	Mechanical Noise (NR) See arch. note below	Doors Type	Type 1 Door + Half Leaf	Type 2
Floors Construction	Type 1 - 100% 50mm Screed	Type 2 - Not Used	Size Operation	1200 mm** Swinging	-
Floor Finish Skirting	Vinyl 150mm coved	<u>.</u>	Door Material Door Finish Frame Material	Timber- Solid Core HPL Timber	-
Partitions Construction	Type 1 - 100% Blockwork	Type 2 - Not Used	Frame Finish Locks	Painted Key Lock& Thumb Turn	-
Finish Protection	Sikaguard coating Wall + Corner Guards		Closers Vision Pnl	Closer Peep Hole Only	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Protection Seals	Kick Plates Acoustic	- Fumigation
System Finish	Special System Special Details	<u>. </u>	Other	Light-tight	-
Features Height	Washable -	-	Window Coverings Type	At Façade Roller Blinds Solar & Grey-out	Internal -
Accessories (non-Lab)	Items	Notes	Light Control Operation Manifestations / Film	Manual	-
	- - - Wall and ceiling coatings to b		Shelving (non-lab)	<u>Shelf</u> - ds to be light tight and privacy	Notes shading ideally on the
Architectural Notes	glass when blinds open. Sour	nd Attenuation: Acoustic cons	Shelving (non-lab)	- ds to be light tight and privacy nuation. Doors: ** Clear oper	shading ideally on the
IGINEERING	glass when blinds open. Sour	nd Attenuation: Acoustic cons eaf and half between 1000-12	Shelving (non-lab) similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privac nuation. Doors: ** Clear oper ples only, to stop light bleed.	shading ideally on the
IGINEERING HVAC Temp (°C): Summer	glass when blinds open. Sour minimum. Clear opening of I <u>Temp (</u> °C): Winter	nd Attenuation: Acoustic cons	Shelving (non-lab) similar. Blinds in this room nee ultant to advise on Sound Atte	- ds to be light tight and privacy nuation. Doors: ** Clear oper leles only, to stop light bleed. Structural Loading	shading ideally on the
IGINEERING HVAC	glass when blinds open. Sour minimum. Clear opening of I	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage	Shelving (non-lab) similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privac nuation. Doors: ** Clear oper ples only, to stop light bleed.	r shading ideally on the ing of full leaf 800 mm
GINEERING HVAC <u>Temp (</u> °C): Summer <u>22oC</u> <u>temp Tolerance</u> ± 2oC <u>Ventilation, supply</u> Comfort Cooling	glass when blinds open. Sour minimum. Clear opening of 1 Temp (°C): Winter Z2oC Temp Variation ± 2oC Ventilation, exhaust General & Dedicated	nd Attenuation: Acoustic cons eaaf and half between 1000-12 Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Blinds in this room nee ultant to advise on Sound Atte	sto be light tight and privacy ds to be light tight and privacy bles only, to stop light bleed. Structural Lobting Lab, normal Equipment Data / AV / Comms	r shading ideally on the ing of full leaf 800 mm
Image Image <th< td=""><td>Items when blinds open.course minimum. Clear opening of I Clear opening of I Clear opening of I Clear Clear opening of I Clear Clear Clear Clear Opening of I Ventilation, exhaust General & Dedicated Air Pressure Negative Airlow</td><td>In distance of the second seco</td><td>Shelving (non-lab) similar Bindi in this room nee ultant to advise on Sound Attre 00 mm. Doors to have peep ho</td><td>sto be light tight and privacy ds to be light tight and privacy bles only, to stop light bleed. Structural Loading Lab, normal Equipment </td><td>r shading ideally on the ing of full leaf 800 mm</td></th<>	Items when blinds open.course minimum. Clear opening of I Clear opening of I Clear opening of I Clear Clear opening of I Clear Clear Clear Clear Opening of I Ventilation, exhaust General & Dedicated Air Pressure Negative Airlow	In distance of the second seco	Shelving (non-lab) similar Bindi in this room nee ultant to advise on Sound Attre 00 mm. Doors to have peep ho	sto be light tight and privacy ds to be light tight and privacy bles only, to stop light bleed. Structural Loading Lab, normal Equipment 	r shading ideally on the ing of full leaf 800 mm
GINEERING HVAC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity 50+/-15% RH Ar fittation, F 5 Supply	Idats when blinds open. Sour minimum. Clear opening of 1 Temp 1°C): Winter 22oC Temp Variation 4 2oC Ventilation, exhaust General & Dedicated Air Pressure	In distance of the second seco	Shelving (non-lab) similar. Blinds in this room nee ultant to advise on Sound Atte	s to be light tight and privacy ds to be light tight and privacy mation. Doors: ** Clear oper les only, to stop light bleed. Structural Loading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms	r shading ideally on the ing of full leaf 800 mm
GINEERING HVAC Temp(2)C: Summer 220C Untildition.supply Comfort Cooling Istandity 50/-15% RH Air filtration. PS Supply Min Air Charages 17 A/L/HR (Occupied)	Jass when blinds open-Source minimum. Clear opening of 1 <u>Temps</u> / ² C): Winter <u>220C</u> <u>76m2</u> Variation <u>+ 20C</u> <u>40 Pressure</u> <u>Air Pressure</u> <u>Negative Airflow</u> <u>Esuipment</u>	In distance of the second seco	Shelving (non-lab) similar Bindi in this room nee ultant to advise on Sound Attre 00 mm. Doors to have peep ho	s to be light tight and privace ds to be light tight and privace bles only, to stop light bleed. Structural Loading Lab, normal Ecuement Data / AV / Comms Data Data Mireless	r shading ideally on the ing of full leaf 800 mm
GINEERING HVAC <u>Temp (²</u> C): Summer <u>22oC</u> <u>Temp Tolerance</u> ± 2oC Ventilation, supply Confort Cooling <u>humidity</u> 50+/-15% RH Ar Fittation P9 Supply <u>Min Air Charges</u>	Jass when blinds open-Source minimum. Clear opening of 1 <u>Temps</u> / ² C): Winter <u>220C</u> <u>76m2</u> Variation <u>+ 20C</u> <u>40 Pressure</u> <u>Air Pressure</u> <u>Negative Airflow</u> <u>Esuipment</u>	In distance of the second seco	Shelving (non-lab) similar. Blinds in this room nee Ulart to advice on Sound Atte 00 mm. Doors to have peep ho	s to be light tight and privace ds to be light tight and privace sets only, to stop light bleed. Structural Lashing Lab, normal Equipment Data / AV / comms Data / AV / comms Data / AV / comms Data / AV / comms Data / AV / comms	r shading ideally on the ing of full leaf 800 mm
GINEERING HVAC Trans_1 ² C1: Summer 22oC Temp Toterance ± 2oC Ventilation, supply Comfort Cooling Humidity 50/-1518 RH Ar Fittation P3 Supply Min Air Charges 17 AC/HR (Occupied) Piped Services Water Lab CW & HW	Jass when blinds open-Source minimum. Clear opening of 1 <u>Temps</u> / ² C): Winter <u>220C</u> <u>76m2</u> Variation <u>+ 20C</u> <u>40 Pressure</u> <u>Air Pressure</u> <u>Negative Airflow</u> <u>Esuipment</u>	dr Attenuation - Acoustic corro and a number of the tween 100-12 Drainage HDPE Chem Resist Electrical Power Soaph Zalow, trunking Cleaners outlets Escential / Standby Power Estimation of the twee Estimation of the twee outlets Estimation of the twee outlets	Shelving (non-lab) similar Bindi in this room nee ultant to advise on Sound Attra 000 mm. Doors to have peep ho		r shading ideally on the ing of full leaf 800 mm
GINEERING HVAC Temp: To: Summer Temp: To: Summer Temp: To: Temp: To: Temp To: Temp: Temp: Temp: Temp To: Temp: Te	Jass when blinds open-Source minimum. Clear opening of 1 <u>Temps</u> / ² C): Winter <u>220C</u> <u>76m2</u> Variation <u>+ 20C</u> <u>40 Pressure</u> <u>Air Pressure</u> <u>Negative Airflow</u> <u>Esuipment</u>	dd Attenudor. Acoustic conso eelf and half between 100-12 Drainage HOPE Chem Resist Electrical Poers Soadh Electrical Poers Soadh Electrical Poers Soadh Electrical Poers Soadh Electrical Poers Soadh Electrical Poers Soadh Electrical Poers Soadh Electrical Poers Soadh Electrical Poers Soadh Electrical Electrical Poers Soadh Electrical Electrical Poers Soadh Electrical Elec	Shelving (non-lab) similar. Blinds in this room nee Ulart to advice on Sound Atte Comm. Doors to have peep to	ds to be light tight and private light devices and tight tight tight tight ds to be light tight and private ds to be light tight tight and private ds to be light tight	Vibration Criteria
GINEERING HVAC Trans_1 ² C1: Summer 22oC Temp Toterance ± 2oC Ventilation, supply Comfort Cooling Humidity 50/-1518 RH Ar Fittation P3 Supply Min Air Charges 17 AC/HR (Occupied) Piped Services Water Lab CW & HW	Jass when blinds open-Source minimum. Clear opening of 1 <u>Temps</u> / ² C): Winter <u>220C</u> <u>76m2</u> Variation <u>+ 20C</u> <u>40 Pressure</u> <u>Air Pressure</u> <u>Negative Airflow</u> <u>Esuipment</u>	d Attended and half between 100-12 Trainage HDPE Chem Resist Electrical Power Sogaly Zalow, trunking Cleaners outlets Essential 7 Sandby Power EM Interference EM Interference General Lighting	Shelving (non-lab) similar Bindi in this room nee ultant to advise on Sound Attra 000 mm. Doors to have peep ho 	ds to be light tight and private light compares the light tight and tight tight data data data data data data data	Vibration Criteria

LABORATORY FURNIT	URE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Movable	Trespa, TopLab+	750mm		
		-	<u> </u>		
Other LF Elements	Above Lab Bench		Other Storage Units		
	Shelving, wall mtd	-		-	-
	-	-		-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PT	D included)
	Sink- Epoxy (integral)	Lab CW (Cat 5)	Lever Handle (mixer)	Splash Pnl & Dry Rack	-
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	
LABORATORY EQUIPN	IENT (ASE*) refer to MRC lis	st			
			* ASE = Architecturally (/Engine		
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	IVC Rack	-	-	1030x590x1900	-
	·				
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Echocardiogram	Visual Sonics			
	Echo Langendorf	-			
	Pressure Volume Loop	-			-

OOM CRITERIA SHE					
ectrophysiology - I	Desription of Lab and its ope				CBS Procedure Roo
	Desription of Lab and its ope	rations			
					First Floor
NERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
INERAL	17 nsm	tbc	Full 24 hour use	Compliant	Not Acceptable
	17 115111	luc	Full 24 Hour use	compliant	NOT ACCEPTABLE
Laboratories Only:	Containment	Fumigation	Safety Risks		
Laboratories Only.	ACDP CL2	No	Biological		
	ACDI CLE		biblogical		-
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	150mm coved	-	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork	-	Locks	Key Lock& Thumb Turn	-
Finish	Sikaguard coating	-	Closers	Closer	-
Protection	Wall + Corner Guards	-	Vision Pnl	Peep Hole Only	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-
System	Special System	-	Other	Light-tight	-
Finish	Special Details	-	ould	Light tight	-
Features	Washable	÷	Window Coverings	At Façade	Internal
Height	wasilable	÷	Type	Roller Blinds	internal
inciBite					
Accorragion (non-Lab)	Itams	Notes	Light Control	Solar & Grey-out	
Accessories (non-Lab)	Items Plackout Curtains	Notes	Operation	Solar & Grey-out Manual	-
Accessories (non-Lab)	Items Blackout Curtains	Notes			-
Accessories (non-Lab)		Notes	Operation Manifestations / Film	Manual -	- - Notes
Accessories (non-Lab)		Notes	Operation		- Notes
Accessories (non-Lab)	Blackout Curtains		Operation Manifestations / Film Shelving (non-lab)	Manual 	
Accessories (non-Lab)	Blackout Curtains Wall and ceiling coatings to b	De Liquid Plastic/Sikaguard or	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee	Manual Shelf - d to be light tight and privacy:	shading ideally on the gla
	Blackout Curtains Wall and ceiling coatings to t when blinds open. Sound Att	e Liquid Plastic/Sikaguard or enuation: Acoustic consultan	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee t to advise on Sound Attenuati	Manual - <u>Shelf</u> - d to be light tight and privacy : on. Doors: ** Clear opening of	shading ideally on the gl
Accessories (non-Lab) Architectural Notes	Blackout Curtains Wall and ceiling coatings to t when blinds open. Sound Att	e Liquid Plastic/Sikaguard or enuation: Acoustic consultan	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee	Manual - <u>Shelf</u> - d to be light tight and privacy : on. Doors: ** Clear opening of	shading ideally on the gl
	Blackout Curtains Wall and ceiling coatings to t when blinds open. Sound Att	e Liquid Plastic/Sikaguard or enuation: Acoustic consultan	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee t to advise on Sound Attenuati	Manual - <u>Shelf</u> - d to be light tight and privacy : on. Doors: ** Clear opening of	shading ideally on the gl
Architectural Notes	Blackout Curtains Wall and ceiling coatings to t when blinds open. Sound Att	e Liquid Plastic/Sikaguard or enuation: Acoustic consultan	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee t to advise on Sound Attenuati	Manual - <u>Shelf</u> - d to be light tight and privacy : on. Doors: ** Clear opening of	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes	Blackout Curtains Wall and ceiling coatings to t when blinds open. Sound Att	De Liquid Plastic/Sikaguard or enuation: Acoustic consultan I between 1000-1200 mm. Dr	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee t to advise on Sound Attenuati	Manual 	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC	Blackout Curtains Wall and ceiling coatings to I Wen blinds open. <i>Sound Att</i> Clear opening of leaf and hal	be Liquid Plastic/Sikaguard or enuation: Acoustic consultan f between 1000-1200 mm. Dr Drainage	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee t to advise on Sound Attenuati	Manual Shelf to be light tight and privacy: n. Doors: ** Clear opening of stop light bleed. 1 E-Phys Rig Structural	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp ([°] C): Summer	Blackout Curtains Wall and ceiling coatings to t when blinds open. Sound Att Clear opening of leaf and hal Temp (^o C): Winter	De Liquid Plastic/Sikaguard or enuation: Acoustic consultan I between 1000-1200 mm. Dr	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee t to advise on Sound Attenuati	Manual	shading ideally on the gl
Architectural Notes GINEERING HVAC <u>Temp (²C)</u> : Summer 220C	Blackout Curtains Blackout Curtains Wall and ceiling coatings to it when blinds open. Sound Att When blinds open. Sound Att Clear opening of leaf and hall Temp_I^CCJ: ZabcC	be Liquid Plastic/Sikaguard or enuation: Acoustic consultan f between 1000-1200 mm. Dr Drainage	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee t to advise on Sound Attenuati	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp ([°] C): Summer 220C Temp Tolerance	Blackout Curtains Wall and ceiling coatings to it Wall and ceiling coatings to it when blinds open. Sound Att Clear opening of leaf and hal Temp (² C): Winter <u>Z2oC</u> Temp Variation	be Liquid Plastic/Sikaguard or enuation: Acoustic consultan f between 1000-1200 mm. Dr Drainage HDPE Chem Resist	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee t to advise on Sound Attenuati	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temm (² C): Summer 220C Temm Tolerance ± 20C	Blackout Curtains Blackout Curtains Wall and ceiling coating: to k Wall and ceiling coating: to k Uclear opening of leaf and halt Temp_I^CC): Temp_ICC): Temp_ICC): Temp_ICC):	be Liquid Plustic/Sikaguard or envarion: Acoustic consultan f between 1000-1200 mm. Du Drainage HDPE Chem Resist 	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee t to advise on Sound Attenuati	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINERRING HVAC Temp (² C): Summer 22oC Temp Tolerance ± 2oC Ventilation, supply	Blackout Curtains Wall and ceiling coatings to it Wall and ceiling coatings to it when blinds open. Sound Att Clear opening of leaf and hal Temp l ² C): Wintler <u>22oC</u> Temp Variation <u>1 2oC</u> Ventilation, exhaust	De Liquid Plastic/Sikaguard or enuation: Acoustic consultan f between 1000-1200 mm. Di Drainage HDPE Chem Resist Electrical Foxer Supply	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee to advice of South Attenuation to advice of South Attenuation to the advice of South (the south of the	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temm (² C): Summer 220C Temm Tolerance ± 20C	Blackout Curtains Blackout Curtains Wall and ceiling coating: to k Wall and ceiling coating: to k Uclear opening of leaf and halt Temp_I^CC): Temp_ICC): Temp_ICC): Temp_ICC):	Drainage HDPE Chem Resist Drainage HDPE Chem Resist Electrical Power Supply 230x, trunking	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatiat operation of the second strength of the 	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp ² C): Summer 2206 ± 20C Ventilation, supply Comfort Cooling Humidity	Blackout Curtains	De Liquid Plastic/Sikaguard or enuation: Acoustic consultan f between 1000-1200 mm. Di Drainage HDPE Chem Resist Electrical Foxer Supply	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee to advice of South Attenuation to advice of South Attenuation to the advice of South (the south of the	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp (² C): Summer 22oC Temp Tolerance ± 2oC VentBation, supply Comfort Cooling	Blackout Curtains	Drainage HDPE Chem Resist Drainage HDPE Chem Resist Electrical Power Supply 230x, trunking	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatiat operation of the second strength of the 	Manual Shelf to be light tight and privacy: to be light tight and privacy to be light tight tight and privacy to be light tight and privacy to be light tight tight tight and privacy to be light tight and privacy to be light tight tight and privacy to be light tight	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp (² C): Summer 220C Temp Tolerance ± 20C Comfort Cooling themistry	Blackout Curtains	Drainage HDPE Chem Resist Drainage HDPE Chem Resist Electrical Power Supply 230x, trunking	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatiat operation of the second strength of the 	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Trans ² (2): Summer 220C Temo Tolerance ± 20C Ventilation, supply Comfort Cooling tiamility 50/-1578 KH1 Am Filtration	Blackout Curtains Blackout Curtains	Liquid Plastic/Sitaguard or rewarden: Acoustic consultant between 1000-1200 mm. Do Drainage HOPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatia to advise on Sound Attenuatia const to have peep holes only, to <u></u>	Manual Sheff to be light tight and privacy: to be a belight tight and privacy: bata / AV / Comms Data / AV / Comms Data	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp 2/20 Temp 2/20 Temp 2/20 VentBallow, supply Comfort Cooling Humidity 50/-1578 KH	Blackout Curtains	Liquid Plastic/Sitaguard or rewarden: Acoustic consultant between 1000-1200 mm. Do Drainage HOPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatia to advise on Sound Attenuatia const to have peep holes only, to <u></u>	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp_1 ² (2): Summer 22oC Temp Tolerance 42oC Ventilation, supply Comfort Cooling Humidity 50/-155K RH At Filtration PS Supply	Blackout Curtains	Liquid Plastic/Sitaguard or rewarden: Acoustic consultant between 1000-1200 mm. Do Drainage HOPE Chem Resist Electrical Power Supply 230x, trunking Cleaners outlets Electrical Supply Electrical Power	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatia to advise on Sound Attenuatia const to have peep holes only, to Fused Spur TPN Isolator	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Tama ¹ (2): Summer 220C Temp Tateranes ± 20C Comfort Cooling timulity 50/-1518 KH1 Am Titration P9 Supply Min.dx Chaness	Blackout Curtains	Liquid Plastic/Sitaguard or rewarden: Acoustic consultant between 1000-1200 mm. Do Drainage HOPE Chem Resist Electrical Power Supply 230x, trunking Cleaners outlets Electrical Supply Electrical Power	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatia to advise on Sound Attenuatia const to have peep holes only, to Fused Spur TPN Isolator	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp_1 ² (2): Summer 22oC Temp Tolerance 42oC Vertilation, supply Comfort Cooling Humidity 50/-155K RH Ar Filtration PS Supply Min.Alc Charges 17 AC/HR (Cocupied)	Blackout Curtains	Liquid Plastic/Sitaguard or rewarden: Acoustic consultant between 1000-1200 mm. Do Drainage HOPE Chem Resist Electrical Power Supply 230x, trunking Cleaners outlets Electrical Supply Electrical Power	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatia to advise on Sound Attenuatia const to have peep holes only, to Fused Spur TPN Isolator	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp_1 ² (2): Summer 22oC Temp Toferance 4 2oC Ventilation, supply Comfort Cooling Humidity 50/-155K RH Ar Filtration PS Supply Min.ArC Charaes 17 AC/HR (Cocupied) Piped Services Water	Blackout Curtains Blackout Curtains	Liquid Plastic/Sitaguard or rewarden: Acoustic consultant between 1000-1200 mm. Do between 1000-1200 mm. Do Drainage HOPE Chem Resist Electrical Power Supply 2300, trunking Cleaners of Standby Power Electrical Standby Power Electrical Standby Power Electrical Standby Power Uniterference Uniterference	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee ti to advise on Sound Attenuation t to advise on Sound Attenuation Fused Spur File Spur File Spur Special Electrical	Manual Sheff to be light tight and privacy: to bo be light tight and privacy: to choose the light tight and privacy: to choose the light tight and privacy: to choose the light tight and privacy to choose the light tight the light tight the light tight the light tight	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Trans ¹ (2): Summer 230C Temp Teleranes ± 20C Temp Teleranes ± 20C Comfort Cooling timelity 50/-1578 KH Arc Transes 17 AC/HR (Occupied) Piped Services	Blackout Curtains	Liquid Plastic/Slagace and the evolution of the evol	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatia to advise on Sound Attenuatia const to have peep holes only, to Fused Spur TPN Isolator	Manual	shading ideally on the gl f full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp_1C205 Temp_1Cetranse ±2oC Ventilation, supply Comfort Cooling Humidity 50/-155K RH Ar Filtration PS Supply Min.ArC Charaes 17 AC/HR (Cocupied) Piped Services Water Lab CW & HW	Blackout Curtains Blackout Curtains	Liquid Plastic/Sitaguard or rewarden: Acostic consultant between 1000-1200 mm. Dr Drainage HOPE Chem Resist Electrical Power Supply 230x, trunking Cleaners outlets Electrical Standby Power Electrical General J Standby Power United Ference Electrical General Upply Standby Power Cleaners outlets Electrical General Upply Standby Power Cleaners outlets Electrical Cleaners outlets Cleaners outlets	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuation to advise on Sound Attenuation to advise on Sound Attenuation Fused Spur File Sour File Sour Lus Levets Soo Lux	Manual	shading ideally on the gl full leaf 800 mm minim
Architectural Notes GINEERING HVAC Tampa ⁽² C): Summer 220C Tampa ⁽² C): Summer 230C Tampa ⁽² C): Summer 24 20C Control Cooling thematik 50/-1578 RH1 Archanes 17 AC/HR (Occupied) Piped Services Wate: Lab CW & HW Ped Services	Blackout Curtains Blackout Curtains Control Curtains Blackout Curta	Liquid Phastly/Glagand off monthshifty/Glagand of	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee to advice on Sound Attenuation to have peep holes only, to	Manual	shading ideally on the gl full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp_1 ² (2): Summer 226 Temp Tolerance 426 VentBation, supply Comfort Cooling Humidiff VentBation 42 Filtration F9 Supply Min Air Charges 13 AC/HR (Occupied) Piped Services Water Lab CW & HW Pied Services SX CO2 / 95% CO2	Blackout Curtains Blackout Curtains	Liquid Plastic/Sitaguard or rewarden: Acostic consultant between 1000-1200 mm. Dr Drainage HOPE Chem Resist Electrical Power Supply 230x, trunking Cleaners outlets Electrical Standby Power Electrical General J Standby Power United Ference Electrical General Upply Standby Power Cleaners outlets Electrical General Upply Standby Power Cleaners outlets Electrical Cleaners outlets Cleaners outlets	Operation Manifestations / Film Shelving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuation to advise on Sound Attenuation to advise on Sound Attenuation Fused Spur File Sour File Sour Lus Levets Soo Lux	Manual	shading ideally on the gl full leaf 800 mm minim
Architectural Notes GINEERING HVAC Tampa ⁽² C): Summer 220C Tampa ⁽² C): Summer 230C Tampa ⁽² C): Summer 24 20C Control Cooling thematik 50/-1578 RH1 Archanes 17 AC/HR (Occupied) Piped Services Wate: Lab CW & HW Ped Services	Blackout Curtains Blackout Curtains Control Curtains Blackout Curta	Light Phast (Jiakgans and Jiaka Sharkan S	Operation Manifestations / Film Shelving (non-lab) similar. Binds in this room me tit a advice on Sound Attenuatia to advice on Sound Attenuatia Fused Spur TPN Isolator Fused Spur Unit Bectrical Lux Levels S00 Lux Detection	Manual	shading ideally on the gl full leaf 800 mm minim
Architectural Notes GINEERING HVAC Temp[0]: Summer 220C Temp[1]: Summer	Blackout Curtains Blackout Curtains Control Curtains Blackout Curta	Liquid Phatty/Staguard Liquid Phatty/Staguard Liquid Phatty/Staguard Drainage HoPC Chem Resist Chemes Suggit Z30v, trunking Cleaners outlets Exertial / Standby Power Lighting Lighting Sautoflyi Sautofl	Operation Manifestations / Film Sheving (non-lab) similar. Blinds in this room nee it to advise on Sound Attenuatio to advise on Sound Attenuatio to advise on Sound Attenuation Fused Spur TPN Isolator Fused Spur TPN Isolator Lux Levels Soo Lux Detection Lux Lux Levels Soo Lux Detection Lux	Manual Sheff below: the second seco	Vibration Criteria
Architectural Notes GINEERING HVAC Temp_1 ² (2): Summer 226 Temp Tolerance 426 VentBation, supply Comfort Cooling Humidiff VentBation 42 Filtration F9 Supply Min Air Charges 13 AC/HR (Occupied) Piped Services Water Lab CW & HW Pied Services SX CO2 / 95% CO2	Blackout Curtains Blackout Curtains Control Curtains Blackout Curta	Light Phast (Jiakgans and Jiaka Sharkan S	Operation Manifestations / Film Shelving (non-lab) similar. Binds in this room me tit a advice on Sound Attenuatia to advice on Sound Attenuatia Fused Spur TPN Isolator Fused Spur Unit Isolator Lux Levels Sol Lux Detection Lux	Manual Manual Manual	Vibration Criteria
Architectural Notes GINEERING HVAC Temp[0]: Summer 220C Temp[1]: Summer	Blackout Curtains Blackout Curtains Control Curtains Blackout Curta	Liquid Phatty/Staguard Liquid Phatty/Staguard Liquid Phatty/Staguard Drainage HoPC Chem Resist Chemes Suggit Z30v, trunking Cleaners outlets Exertial / Standby Power Lighting Lighting Sautoflyi Sautofl	Operation Manifestations / Film Manifestations / Film Sheving (non-lab) similar. Blinds in this room nee it to advice on Sound Attenuatio to advice on Sound Attenuation to advice on Sound Attenuation to advice on Sound Attenuation Fused Spur TPN Isolator Fused Spur TPN Isolator Lux Levels Soo Lux Detection Lux Levels Soo Lux Detection Lux Levels DALI (Dimmable) Immerency Lug	Manual Sheff to be light light and privacy: to bo be light light and privacy: to concerve the clear opening of the set openin	Vibration Criteria
Architectural Notes GINEERING HVAC Temp[0]: Summer 220C Temp[1]: Summer	Blackout Curtains Blackout Curtains Control Curtains Blackout Curta	Liquid Phatty/Staguard Liquid Phatty/Staguard Liquid Phatty/Staguard Drainage HoPC Chem Resist Chemes Suggit Z30v, trunking Cleaners outlets Exertial / Standby Power Lighting Lighting Sautoflyi Sautofl	Operation Manifestations / Film Shelving (non-lab) similar. Binds in this room me tit a advice on Sound Attenuatia to advice on Sound Attenuatia Fused Spur TPN Isolator Fused Spur Unit Isolator Lux Levels So0 Lux Detection Lux Logalast Tuge DALI (Dimmable)	Manual Sheff below: the construction of the	Vibration Criteria Vibration Criteria

Downdraft table	LABORATORY FURNIT	URE				
Other LF Elements Above Laßench Shelving, wall mtd Other Storage Units Lab Sinks Sink - Tupe Sink - Epoxy (Integral) - <	Lab Benching	Type	Benchtop Material	Depth	Notes	
Shekving, wall mitd -		Bench, Special	Trespa, TopLab+	750mm	E-Phys PC bench (nom.	1000mm wide)
Shelving, wall mtd -		-	-	-		
Lab Sinks Sink-Trage Witter Source Law Flandle (mixer) Accessorie (assume 50, PT Dicidedel) Sink-Expony (integral) Lab CW (2nt 5) Lever Handle (mixer) Splitsh Pni & Dry Rack - Wash Hand Basin Lab CW (2nt 5) Lab CW (2nt 5) Lab CM (2	Other LF Elements	Above Lab Bench		Other Storage Units		
Sink- Epoxy (Integral) Lab CW (Cat 5) Lever Handle (mixer) Splash Phil & Dry Rack - Wash Hand Basin Lab CW & HW Hands-free (sonar) Lab Safety Eye Wash LABORATORY EQUIPMENT (ASC) - Fleet to MRC list * ASC = Architecturally (Engineering) Significant Equipment ** 0 = Owner C = Co Extract Esulament Name/Model Sametrix Downdraft table Sametrix Sace Scaveraging Unit - - Esuignenti Name/Model Quantity Anaesthesia Unit Vet Tech 1 unit Hicrospherte Puller Narinfike Japan - Hicrospherte Puller Leica 1 unit		Shelving, wall mtd	-	Underbench Cabinet		-
Sink- Epoxy (Integral) Lab CW (Cat 5) Lever Handle (mixer) Splash Phil & Dry Rack - Wash Hand Basin Lab CW & HW Hands-free (sonar) Lab Safety Eye Wash LABORATORY EQUIPMENT (ASC) - Fleet to MRC list * ASC = Architecturally (Engineering) Significant Equipment ** 0 = Owner C = Co Extract Esulament Name/Model Sametrix Downdraft table Sametrix Sace Scaveraging Unit - - Esuignenti Name/Model Quantity Anaesthesia Unit Vet Tech 1 unit Hicrospherte Puller Narinfike Japan - Hicrospherte Puller Leica 1 unit			-		-	-
Wash Hand Basin Lab CW & HW Hands-free (sonar) Lab Safety Eye Wash LABORATORY EQUIPMENT (ASF) refer to RRC list *ASE = Architecturally (Engineering) Significant Equipment *O = Owner C = Condition Laboratory EQUIPMENT (ASF) refer to RRC list *ASE = Architecturally (Engineering) Significant Equipment *O = Owner C = Condition Laboratory EQUIPMENT (ASF) refer to RRC list Quantity Size Function Downdraft table	Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, P	TD included)
LABORATORY EQUIPMENT (ASE*) refer to MRC list *ASE = Architecturally (Engineering) Significant Equipment ** O = Downer C = Con Extra Excitoment Downdraft table Scoveringing Unit Coupering Unit Anaesthesia Unit Vet Tech I unit Electrophysiology Ng. Scientifica I unit Electrophysiology Ng. Scientifica I unit		Sink- Epoxy (integral)	Lab CW (Cat 5)	Lever Handle (mixer)	Splash Pnl & Dry Rack	-
*A5. = Arthereturally (Engineering) Significant Equipment * 0 - Owner C = Co Extract Equipment Name/Model Quantity Uterpreving) Significant Equipment * 0 - Owner C = Co Scavenging Unit		Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	-
Extra Environment Name/Model Quantity Size Funish-Install** Downdrift table	LABORATORY EQUIPM	1ENT (ASE*) refer to MRC lis	t			
Downdraft table - Scavenging Unit - Scavenging Unit - Statement Name/Addat Anaesthesia Unit Vet Tech Microsopiere Puller Naming apan Linut - Electrophysiology Rg. Scientifica Junit -				* ASE = Architecturally (/Engine	ering) Significant Equipment	** O = Owner C = Cont
Scavenging Unit - Equipment Name/Model Quantity Size Furrish-Install** Ansesthesia Unit Vet Tech 1 unit - - - Microspherte Puller Narifige Japan 1 unit - - - - Electrophysiology Rg Scientifica 1 unit -			Name/Model	Quantity	Size	Furnish - Install**
Environment Name/Added Quantity Size Fursish-Install** Anaesthesis Unit Vet Tech 1 unit - - - Microspierte Puller Natifike Japan 1 unit - - - Electrophysiology Rig Scientifica 1 unit - - - Microspierte Junt - 1 unit - - - -		Downdraft table				-
Anaesthesia Unit Vet Tech 1 unit - Micropipette Puller Narishige Japan 1 unit Electrophysiology Rig Scientifica 1 unit Microtome Leica 1 unit		Scavenging Unit				
Micropipette Puller Narishige Japan 1 unit Eketrophysiology Rig Scientifica 1 unit Microtom Leica 1 unit		Equipment	Name/Model	Quantity	Size	Furnish - Install**
Electrophysiology Rig Scientifica 1 unit Microtome Leica 1 unit		Anaesthesia Unit	Vet Tech	1 unit		-
Microtome Leica 1 unit		Micropipette Puller	Narishige Japan	1 unit		-
		Electrophysiology Rig	Scientifica	1 unit		
Magnet Heater Control 1 unit		Microtome	Leica	1 unit		
		Magnet Heater Control		1 unit		

DOM CRITERIA SHE	ET				
ARKENABLE ROOM	-				Room ID:
					Dedicated Seconda
	2no provided within the buil	ding for specialist microscope	work.		Floor: Levels 3+5
NERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	11 nsm	2 nsm	Extended Hours	Compliant	Not Acceptable
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological	<u>.</u>	-
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
Sound Attenuation	Normal Attenuation	NR 40 (tbc)	Туре	Dark Room	TIPC 2
Floors	Type 1 - 100%	Type 2 - Not Used	Size (C/O)	800 mm	-
Construction	50mm Screed	Type 2 - Not Osed	Operation	Swinging	-
Floor Finish	Vinyl		Door Material	Metal	
Skirting	150mm coved		Door Finish	Ivietai	-
Skirting	15011111 COVED		Frame Material	Metal	
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	inicial	
Construction	Plasterboard & Skim		Locks	lock	-
Finish	Paint		Closers	Closer	
Protection	PdIIIL		Vision Pnl	Small	-
FIOLECTION			Protection	Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	
System	Plasterboard	Type 2 - Not Oseu	Other	Light-tight	-
Finish		<u> </u>	Other	<u> </u>	-
Finish Features	Paint Wipeable	<u> </u>	Window Coverines	As Franks	Internet
			Window Coverings	At Façade	Internal
Height	3000 mm	-	Type	Roller Blinds	-
			Light Control	Solar & Black-out	-
Accessories (non-Lab)	Items	Notes	Operation	Motorised	-
	Coat Hooks	3 no.	Manifestations / Film		
	<u> </u>				
	-		Shelving (non-lab)	Shelf	Notes
Architectural Notes			me sealed to door when closed		d warning light outside
Architectural Notes			me sealed to door when closed xhaust to equipment or bench		d warning light outside
Architectural Notes					d warning light outside
					d warning light outside
Architectural Notes GINEERING HVAC					d warning light outside
GINEERING		t (thimble) to allow for local e		top LEV to be added.	d warning light outside
GINEERING HVAC Temp (°C): Summer	room. Need an extract spigor	t (thimble) to allow for local e Drainage		Structural	Vibration Criteria
GINEERING HVAC	room. Need an extract spigo	t (thimble) to allow for local e Drainage		Structural	
GINEERING HVAC Temp (°C): Summer 24oC	room. Need an extract spigor <u>Temp (°C): Winter</u> 200C	t (thimble) to allow for local e Drainage		top LEV to be added. Structural Loading Lab, normal	Vibration Criteria
GINEERING HVAC Temp [°C]: Summer 24oC Temp Tolerance	Temp (°C): Winter 20oC Temp Variation	t (thimble) to allow for local e Drainage HDPE Chem Resist -		top LEV to be added. Structural Loading Lab, normal Equipment	Vibration Criteria
GINEERING HVAC 24oC Iemp.I°C1: Summer 24oC 240C	room. Need an extract spigo Temp (°C): Winter 200C Temp Variation ± 20C / Hour	Drainage HDPE Chem Resist - Electrical		top LEV to be added. Structural Loading Lab, normal Equipment	Vibration Criteria
GINEERING HVAC Temp (°C): Summer 240C Immp Tolerance ± 20C Ventilation, supply Comfort Cooling	room. Need an extract spigo Temp (°C): Winter 20oC Temp Variation ± 20c / Hour Yentilation, exhaust General Extract	trainage HDPE Chem Resist Electrical Power Supply 230y, tranking		top LEV to be added. Structural Loading Lab, normal Equipment Noise & Vibration Data / AV / Comms	Vibration Criteria
GINEERING HVAC Temp (°C): Summer 240C Temp Tolerance ± 20C Ventilation, supply Comfort Cooling Humidity	room. Need an extract spigo Temp (°C): Winter 200C Temp Variation ± 20C / Hour Yentilation, exhaust General Extract Air Pressure	t (thimble) to allow for local e Trainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets		top LEV to be added. Structural Loading Lab, normal Equipment Noise & Vibration	Vibration Criteria
GINEERING HVAC Z4oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity Not controlled	room. Need an extract spigo Temp (°C): Winter 20oC Temp Variation ± 2oC Hour Yentlition exhaust General Extract Air Pressure Negative Airflow	t (thimble) to allow for local e		Structural Loading Lab, normal Equipment Noise & Vibration Data / AV / Comms Data	Vibration Criteria
GINEERING HVAC Temp (2): Summer 24oC Temp Tolerance ± 2oC Ventlation, supply Comfort Cooling Humidity Not controlled Ar Filtration	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e Trainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets		Structural Loading Lab, normal Equipment Noise & Vibration Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / MV / Comms	Vibration Criteria
GINEERING HVAC Temp (Tc): Summer ZdoC Temp Tolerance Ventilation, supply Comfort Cooling Humidity Not controlled Air Filtration F7 Supply (80-85%)	room. Need an extract spigo Temp (°C): Winter 20oC Temp Variation ± 2oC Hour Yentlition exhaust General Extract Air Pressure Negative Airflow	t (thimble) to allow for local e		Structural Loading Lab, normal Equipment Noise & Vibration Data / AV / Comms Data	Vibration Criteria
GINEERING HVAC Temp (*C): Summer 24oC Temp Tolerance 4 2oC VentBation, supply VentBation, supply Supply Humidity Not controlled A# Filtration F7 Supply (80-85%) Min Air Changes	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e		Structural Loading Lab, normal Equipment Noise & Vibration Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / MV / Comms	Vibration Criteria
GINEERING HVAC Temp TCI: Summer ZdoC Zent Temp Tolexance ± 2oC Confort Cooling Humdity Not controlled Air Filtration Air Filtration F7 Supply (80-85%) Min Air Changes	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e		Structural Leading Lab, normal Educiment Noise & Vibration Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms	Vibration Criteria
GINEERING HVAC Temp CGL: Summer 24oC Temp Tolerance ± 2oC Vantilation, supply Comfort Cooling Humidity Not controlled Air Filtration F7 Supply (80-85%) Min Air Changes 4 Day (2 Night) /HR Piped Services	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e Drainage HDPE Chem Resist 		Structural Leading Lab, normal Educiment Noise & Vibration Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms	Vibration Criteria
GINEERING HVAC Temp City: Summer ZdoC Temp Loter Summer demonstration from Tolerance demonstration from Summer Mot controlled Air Filtration Air Supply (80-85%) Min Air Changes 4 Day (2 Night) / IR Piped Services Water	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking 230y, trunking Cleaners outlets Fused Spur Essential J Standby Power EM Interference Lighting		Structural Loading Lab, normal Lab, norma Lab, norma Lab, norma L	Vibration Criteria
GINEERING HVAC Temp CGL: Summer 24oC Temp Tolerance ± 2oC Vantilation, supply Comfort Cooling Humidity Not controlled Air Filtration F7 Supply (80-85%) Min Air Changes 4 Day (2 Night) /HR Piped Services	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e Drainage HDPE Chem Resist - Electrical Power Supply 230x, trunking Cleaners outlets Fused Spur Essential / Slanbu Power - - Lighting Lighting		structural Ladong Ladong Terratural Ladong Ladong Ladong Ladong Series Structural Paralament Noise & Vibration Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / Data Data Data Data Data Data Da	<u>Vibration Criteria</u> VC-A
GINEERING HVAC Temp CPL: Summer 24oC Temp Tolerance ± 20C Ventilation supply Comfort Cooling Humidity Not controlled Air filteration Air filteration Air Stupply (80-85%) Min Air Changes 4 Day (2 Night) /HR Piped Services Water Lab CW & HW	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e Drainage HDPE Chem Resist Electrical Fower Supply 230x, trunking Cleaners outlets Fused Spur Essential / Standby Power EM Interference Lighting Lighting Lighting	control contro control control control control control control control control co	Structural Loading Lab, normal Lab, norma Lab, norma Lab, norma L	Vibration Criteria
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GINEERING HVAC Temp Ct::Summer 24oC Temp Tolerance ± 2oC Vantlation.supply Comfort Cooling Humdity Not controlled Air Filtration F7 Supply (80-85%) Min Air Changes 4 Day (2 Night) /HR Piped Services Water - Deed Services Compressed Air Nitrogen	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e Drainage HDPE Chem Resist - Electrical Power Supply 230x, trunking 230x, trunking Sasential, Slandby Power - Sasential, Slandby Power - Lighting General Lighting Sawtching Sawtching	Luc Levels ZOD Lux Detection Balast Type	top LEV to be added. structural Lab, normal Examinent Noise & Vibration Data / AV / Comms Data Lab, Nor (Comms Data Lab, Comms Data Lab, Comms Data Data Data Data Data Data Data Dat	Vibration Criteria VC-A - - - - - - - - - - - - - - - - - -
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GINEERING HVAC Temp Tol: Summer 24oC Temp Tolerance ± 2oC Vantlation.supply Comfort Cooling Humidity Not controlled Air Filtration Him Air Changes 4 Day (2 Night) /HR Piped Services Water Lab CW & HW - Pied Services Compressed Air Nitrogen	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e Drainage HDPE Chem Resist Electrical Foxer Supply 230v, trunking Cleaners outlets Fused Spur Essential / Standby Power - EM Interfreence - Lighting Lighting Switching Switching Scene Setting	Luc Levels ZOD Lux Detection Balast Type	top LEV to be added. structural Lab, normal Examine Noise & Vibration Data / AV / Comms Data AV / Comms Data Data / Comms Data Data Data Data Data Data Data Dat	Vibration Criteria VC-A
GINEERING HVAC Temp Ct::Summer 24oC Temp Tolerance ± 2oC Vantlation.supply Comfort Cooling Humdity Not controlled Air Filtration F7 Supply (80-85%) Min Air Changes 4 Day (2 Night) /HR Piped Services Water - Deed Services Compressed Air Nitrogen	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e Drainage HDPE Chem Resist Electrical Foxer Supply 230v, trunking Cleaners outlets Fused Spur Essential / Standby Power - EM Interfreence - Lighting Lighting Switching Switching Scene Setting	Logian Control Co	Structural Lab, normal Lab, normal Lab, normal Lab, normal Lab, normal Data / AV / Comms Data / AV / Comms Data Wireles Data Wireles Data Wireles Security Systems Security Systems Fire Detection Fire	Vibration Criteria VC-A - - - - - - - - - - - - - - - - - -
GINEERING HVAC Temp Tol: Summer 24oC Temp Tolerance ± 2oC Vantlation.supply Comfort Cooling Humidity Not controlled Air Filtration Him Air Changes 4 Day (2 Night) /HR Piped Services Water Lab CW & HW - Pied Services Compressed Air Nitrogen	room. Need an extract spigo Temp (*C). Winter 200C Temp Xutation 2 20C / Hour Yenilation, enhaust General Extract Air Pressure Negative Airflow Eculoment	t (thimble) to allow for local e Drainage HDPE Chem Resist Electrical Foxer Supply 230v, trunking Cleaners outlets Fused Spur Essential / Standby Power - EM Interfreence - Lighting Lighting Switching Switching Scene Setting	Logian Control Co	top LEV to be added. structural Lab, normal Examine Noise & Vibration Data / AV / Comms Data AV / Comms Data Data / Comms Data Data Data Data Data Data Data Dat	Vibration Criteria VC-A

LABORATORY FURNIT	ELIBE				
Lab Benching	Type Bench, Movable	Benchtop Material Trespa Toplab Base	Depth 750mm	Notes	
Other LF Elements	- <u>Above Lab Bench</u> Shelving, bench mtd		- Other Storage Units -		-
Lab Sinks	- <u>Sink Type</u> Sink- Epoxy (integral) -	- <u>Water Source</u> Lab CW & HW	- <u>Taps</u> Lever Handle (mixer) -	- Accessories (assume SD, PT Splash Pnl & Dry Rack -	 D included)
Architectural Notes					
Architectural Notes	MENT (ASE*)		* ASE – Architecturally (/Engine	arina) Sianificant Enuinmant *	* O - Owner C - Contra
	MENT (ASE*) Extract Equipment 	Name/Model	* ASE = Architecturally (/Engine Quantity	ering) Significant Equipment * Size	* O = Owner C = Contrac Furnish - Install** -

issue Culture					
issue culture	Desription of Lab and its ope	rations			CBS Procedure Room
					First Floor
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	17 nsm	tbc	Full 24 hour use	Compliant	Desirable
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological	Noise	<u>.</u>
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	Normal Attenuation	NR 40 (tbc)	Туре	Door + Half Leaf	-
Floors	<u>Type 1 - 100%</u>	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Glass/Metal Frame	-
Skirting	150mm coved	<u>- </u>	Door Finish	<u>.</u>	-
			Frame Material	Metal	<u>-</u>
Partitions	<u>Type 1 - 100%</u>	Type 2 - Not Used	Frame Finish	<u> </u>	-
Construction	Blockwork	<u> </u>	Locks	Lock	-
Finish	Sikaguard coating	-	Closers	Closer	-
Protection	Wall + Corner Guards	<u> </u>	Vision Pnl	Large	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Fumigation	-
System	Special System	-	Other	-	-
Finish	Special Details	-			
Features	Washable	-	Window Coverings	At Façade	Internal
Height	-	-	Туре	Roller Blinds	-
			Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
			Manifestations / Film	-	-
	-				
Architectural Notes	glass when blinds open. Sour	nd Attenuation: Acoustic cons	Shelving (non-lab) similar. Blinds in this room nee ultant to advise on Sound Atte	nuation. Doors: ** Clear oper	Notes y shading ideally on the ning of full leaf 800 mm
	glass when blinds open. Sour	nd Attenuation: Acoustic cons	similar. Blinds in this room nee	- ds to be light tight and privac nuation. Doors: ** Clear oper	y shading ideally on the
Architectural Notes	glass when blinds open. Sour	nd Attenuation: Acoustic cons eaf and half between 1000-12	similar. Blinds in this room nee ultant to advise on Sound Atte	- ds to be light tight and privac nuation. Doors: ** Clear oper	y shading ideally on the
NGINEERING HVAC	glass when blinds open. Sour minimum. Clear opening of I	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage	similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privac nuation. Doors: ** Clear oper ales only, to stop light bleed.	y shading ideally on the ning of full leaf 800 mm
NGINEERING HVAC Temp (°C): Summer	glass when blinds open. Sour minimum. Clear opening of I <u>Temp (</u> °C): Winter	nd Attenuation: Acoustic cons eaf and half between 1000-12	similar. Blinds in this room nee ultant to advise on Sound Atte		y shading ideally on the
NGINEERING HVAC	glass when blinds open. Sour minimum. Clear opening of I	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage	similar. Blinds in this room nee ultant to advise on Sound Atte	- ds to be light tight and privac nuation. Doors: ** Clear oper lies only, to stop light bleed. Structural	y shading ideally on the ning of full leaf 800 mm
NGINEERING HVAC Temp1 ^o C): Summer 22oC	glass when blinds open. Sour minimum. Clear opening of l <u>Temp (</u> °C): Winter 22oC	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage	similar. Blinds in this room nee ultant to advise on Sound Atte	- ds to be light tight and privac nuation. Doors: ** Clear oper lies only, to stop light bleed. Structural Loading Lab, normal	y shading ideally on the ning of full leaf 800 mm
NGINEERING HVAC <u>Temp1</u> °C): Summer <u>220C</u> Temp Tolerance	glass when blinds open. Sour minimum. Clear opening of I <u>Temp (°</u> C): Winter <u>22oC</u> <u>Temp Variation</u>	nd Attenuation: Acoustic conse eaf and half between 1000-12 Drainage HDPE Chem Resist	similar. Blinds in this room nee ultant to advise on Sound Atte	- ds to be light tight and privac nuation. Doors: ** Clear oper lies only, to stop light bleed. Structural Loading Lab, normal	y shading ideally on the ning of full leaf 800 mm
NGINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling	Iss when blinds open. Sour minimum. Clear opening of I Imm 22oC Imm 22oC Ventilation ± 2oC Ventilation, exhaust General & Dedicated	Id Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist Electrical	similar. Blinds in this room nee ultant to advise on Sound Atte		y shading ideally on the ning of full leaf 800 mm
VGINEERING HVAC Temp_(°C): Summer 22oC Temp_Tolerance ± 2oC Ventilation, supply	Itemp (°C): Winter 22oC Temp Variation + 2OC Ventilation, exhaust	d Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply	similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privac ds to be light tight and privac mution. Doors: ** Clear oper les only, to stop light bleed. Structural Loading Lab, normal Equipment -	y shading ideally on the ning of full leaf 800 mm
VGINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling	Iss when blinds open. Sour minimum. Clear opening of I Imm 22oC Imm 22oC Ventilation ± 2oC Ventilation, exhaust General & Dedicated	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist - Electrical Power Supply 230y, trunching	similar. Blinds in this room nee ultant to advise on Sound Atte	- ds to be light tight and privac ds to be light tight and privac set only, to stop light bleed. Structural Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Data Data	y shading ideally on the ning of full leaf 800 mm
VGINEERING HVAC <u>Temp (</u> ^o C): Summer <u>22oC</u> Temp Tolerance + 2 oC Ventilation, supply Comfort Cooling Humidity	latis when blinds open. Sour minimum. Clear opening of 1 Temp (² C): Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC</u> <u>Ventilation, enhaust</u> <u>General & Dedicated</u> <u>Air Pressure</u>	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist - Electrical Power Supply 230y, trunching	similar. Blinds in this room nee ultant to advise on Sound Atte	- ds to be light tight and privac ds to be light tight and privac unition. Doors: ** Clear open les only, to stop light bleed. Structural Loading Lab, normal Equipment - Data / AV / Comms Data / AV / Comms	y shading ideally on the ning of full leaf 800 mm
VGINEERING HVAC 220C Temp Tolerance ± 20C Vertilation, supply Comfort Cooling Humdity 504/-15% RH	lats when blinds open. Sour minimum. Clear opening of I Temp (² C): Winter <u>22oC</u> <u>200C</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>42oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41oC</u> <u>41</u>	In distantiation in Accounting Constraints of the Accounting of the Albert Chem Resist HDPE Chem Resist Electrical Prover Supply 230x, trunking Cleaners outlets	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	- ds to be light tight and privac ds to be light tight and privac set only, to stop light bleed. Structural Lobding Lab, normal Equipment - Data / AV / Comms Data / AV / Comms Data Data	y shading ideally on the ning of full leaf 800 mm
VGINEERING HVAC Z2oC Temp Tolerance ± 2oC Ventilation.surghy Comfort Cooling Humidity S04-135% RH Air Filtration	lass when blinds open. Source minimum. Clear opening of 1 22oC	In distance of the second seco	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	- ds to be light tight and privac ds to be light tight and privac lies only, to stop light bleed. Structural Loading Lab, normal Equipment - Data / AV / Comms Data Data Wireless	y shading ideally on the ning of full leaf 800 mm
NGINEERING HVAC Immg/°C): Summer 220C Sentation (Sentance) 4 Sentation (Sentance) 4 Ministrian (Sentance) 4 Ministrian (Sentance) Ministrian (Sentance) Ministrian (Sentance) Ministrian (Sentance) 1 X AC/HR (Occupied)	lass when blinds open. Source minimum. Clear opening of 1 22oC	nd Attenuation: Acoustic cons earl and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	- ds to be light tight and privac ds to be light tight and privac lies only, to stop light bleed. Structural Loading Lab, normal Equipment - Data / AV / Comms Data Data Wireless	y shading ideally on the ning of full leaf 800 mm
VGINEERING HVAC Z20C Temp 1°C): Summer Z20C Ventiation, supply Comfort Cooling Supply S0/-155% RH Afr filtration F3 Supply Min Air Charges	lass when blinds open. Source minimum. Clear opening of 1 22oC	d Attenuation. Acoustic cons earl and half between 1000-12 Drainage HDPE Chem Resist 	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	- ds to be light tight and privac ds to be light tight and privac sets only, to stop light bleed. Structural Loading Lab, normal E-alianment - Data / AV / comms Data / AV / comms Data / AV / comms Data Data / AV / comms Data Data / AV / comms	y shading ideally on the ning of full leaf 800 mm
VGINEERING HVX.C Terms (°C): Summer 220C Emmi Colerance 4 20C distance usually Commont Cooling Humility Commont Cooling Humility Solv/-15% RH Min Ar Changes PS Supply Min Ar Changes TA CL/HR (Occupied) Piped Services Water	lass when blinds open. Source minimum. Clear opening of 1 22oC	nd Attenuation: Acoustic cons earl and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	- ds to be light tight and privac ds to be light tight and privac sets only, to stop light bleed. Structural Loading Lab, normal E-alianment - Data / AV / comms Data / AV / comms Data / AV / comms Data Data / AV / comms Data Data / AV / comms	y shading ideally on the ning of full leaf 800 mm
VGINEERING HVAC Temms (°C): Summer 220C Temms Tolerance ± 20C WentBattion, supply Comfort Cooling Hummidity 504/-135% RH Art/ Filtration F9 Supply Min Arc Charges 17 AC/HR (Occupied) Pilped Services	lass when blinds open. Source minimum. Clear opening of 1 22oC	d Attenuation. Acoustic cons earl and half between 1000-12 Drainage HDPE Chem Resist 	similar. Blinds in this room ne ultant to advise on Sound Atte 00 mm. Doors to have peep he 		y shading ideally on the ining of full test 500 mm <u>Vibration Criteria</u> - - -
MGINEERING HVXAC Terming (°C): Summaria 2200C Terming (°C): Summaria 2200C Summaria 200C Summaria 200C Summaria Sum	Ideas when blinds open-Sour minimum. Clear opening of I ZaoC Temp (°C): Winter ZaoC Temp Avaitation # 2 a C Wentilation, enhaust General & Declarated <u>All Pressure</u> Negative Airflow Equipment See Lab Equip	dr Attenuation. Acoustic cons and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Soaph Zalby, trunking Cleaners outlets Escritial / Standay Power Escritial / Standay Power Escritial / Standay Power Uphting	similar. Blinds in this room nee ultant to advise on Sound Atte 00 mm. Doors to have peep ho	to be light tight and prives mutics. Doors ** Clear open where only, to stop light bleed. Structural Loading Lab, normal Lab, normal Data / AV / Comms Data / AV / Comms Data / AV / Comms Data Projection Screen Projection Screen	y shading ideally on the ning of full leaf 800 mm
MGINEERING HVXAC Terming (°C): Summaria 2200C Terming (°C): Summaria 2200C Summaria 200C Summaria 200C Summaria Sum	Ideas when blinds open-Sour minimum. Clear opening of I ZaoC Temp (°C): Winter ZaoC Temp Avaitation # 2 a C Wentilation, enhaust General & Declarated <u>All Pressure</u> Negative Airflow Equipment See Lab Equip	dr Attendotion. Acoustic cons earl and half between 1000-12 Drahnage HDPE Chem Resist — Electrical Proven Susplus 2300, trunking Cleaners outlets — Electrical Fiscanetal / Standby Power — Uighting Libbiting	similar. Blinds in this room ne ultant to advise on Sound Atte 00 mm. Doors to have peep he 		y shading ideally on the ining of full test 500 mm <u>Vibration Criteria</u> - - -
KGINEERING HVAC Temen (* C): Summer 220C Temen (* C): Summer 220C Ventlation, sunply Ventlation, sunply Commonsor 4 Commensor 9 Sunply Min Ar Changes 4 Min Changes 4 Min Ar Ch	Ideas when blinds open-Sour minimum. Clear opening of I ZaoC Temp (°C): Winter ZaoC Temp Avaitation # 2 a C Wentilation, enhaust General & Declarated <u>All Pressure</u> Negative Airflow Equipment See Lab Equip	d Attended and half on Acoustic consolutions of the sense	similar. Blinds in this room nee ultant to advise on Sound Atte 00 mm. Doors to have peep ho		y shading ideally on the ining of full test 500 mm <u>Vibration Criteria</u> - - -
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KGINEERING HVAC Temen (* C): Summer 220C Temen (* C): Summer 220C Ventlation, sunply Ventlation, sunply Commonsor 4 Commensor 9 Sunply Min Ar Changes 4 Min Changes 4 Min Ar Ch	Ideas when blinds open-Sour minimum. Clear opening of I ZaoC Temp (°C): Winter ZaoC Temp Avaitation # 2 a C Wentilation, enhaust General & Declarated <u>All Pressure</u> Negative Airflow Equipment See Lab Equip	d Attended and half on Acoustic consolutions of the sense	similar. Blinds in this room nee ultant to advise on Sound Atte 00 mm. Doors to have peep ho		y shading ideally on the ining of full test 500 mm <u>Vibration Criteria</u> - - -
KGINEERING HVAC Temen (* C): Summer 220C Temen (* C): Summer 220C Ventlation, sunply Ventlation, sunply Commonsor 4 Commensor 9 Sunply Min Ar Changes 4 Min Changes 4 Min Ar Ch	Ideas when blinds open-Sour minimum. Clear opening of I ZaoC Temp (°C): Winter ZaoC Temp Avaitation # 2 a C Wentilation, enhaust General & Declarated <u>All Pressure</u> Negative Airflow Equipment See Lab Equip	d Attenden Acoustic consol earl and half Detween 100-12 Drainage HOPE Chem Resist Electrical Poest Sought 230y, trunking Cleaners outlets Sald haterference Editions General Lighting General Lighting Satisfue	smilar. Blinds in this room nee urlant to advise on Sound Atta 00 mm. Doors to have peep ho		y shading ideally on the ining of full test 500 mm <u>Vibration Criteria</u> - - -
KGINEERING HVAC Terring (°C): Summer 220C Terring (°C): Summer 220C Ventlation, supply Comfort Cooling Ventlation, supply Comfort Cooling Ventlation, supply MinAr Changes 390/-135% PRH 407 Elization Piped Services Ventlat Lab CW & HW — — — — — — — — — — — — — — — — — — —	Ideas when blinds open-Sour minimum. Clear opening of I ZaoC Temp (°C): Winter ZaoC Temp Avaitation # 2 a C Wentilation, enhaust General & Declarated <u>All Pressure</u> Negative Airflow Equipment See Lab Equip	d Attended A	similar. Blinds in this room nee ultant to advise on Sound Atte 00 mm. Doors to have peep ho	Construction C	y Jaading Ideally on the sing of full leaf 800 mm VBration Criteria
KGINEERING HVAC Terring (°C): Summer 220C Terring (°C): Summer 220C Ventlation, supply Comfort Cooling Ventlation, supply Comfort Cooling Ventlation, supply MinAr Changes 390/-135% PRH 407 Elization Piped Services Ventlat Lab CW & HW — — — — — — — — — — — — — — — — — — —	Ideas when blinds open-Sour minimum. Clear opening of I ZaoC Temp (°C): Winter ZaoC Temp Avaitation # 2 a C Wentilation, enhaust General & Declarated <u>All Pressure</u> Negative Airflow Equipment See Lab Equip	d Attended A	smilar. Blinds in this room nee urlant to advise on Sound Atta 00 mm. Doors to have peep ho	Construction C	y shading ideally on the ining of full test 800 mm Vibration Criteria
KGINEERING HVAC Terring (°C): Summer 220C Terring (°C): Summer 220C Ventlation, supply Comfort Cooling Ventlation, supply Comfort Cooling Ventlation, supply MinAr Changes 390/-135% PRH 407 Elization Piped Services Ventlat Lab CW & HW — — — — — — — — — — — — — — — — — — —	Ideas when blinds open-Sour minimum. Clear opening of I ZaoC Temp (°C): Winter ZaoC Temp Avaitation # 2 a C Wentilation, enhaust General & Declarated <u>All Pressure</u> Negative Airflow Equipment See Lab Equip	d Attended A	similar. Blinds in this room nee ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	Survey of the light and private mutics. Decore ** Clear cape mutics. Decore ** Clear cape best only, to stop light bleed. Structural Leading Lab, normal Equipment Data / AV / Comms Data Suggest Protection The Detection Since Detector	y Jading Ideally on the sing of full leaf 800 mm VBration Criteria

LABORATORY FURNIT	URE				
Lab Benching	Туре	Benchtop Material	Depth	Notes	
	Bench, Movable	Trespa Toplab Base	750mm		
	- <u> </u>	-	·		
Other LF Elements	Above Lab Bench		Other Storage Units		
	-	-	-	-	-
	-		<u> </u>	<u> </u>	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PT	D included)
	Sink- Epoxy (integral)	Lab CW (Cat 5)	Lever Handle (mixer)	Splash Pnl & Dry Rack	-
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	
LABORATORY EQUIPN	MENT (ASE*) refer toMRC lis				
			* ASE = Architecturally (/Engine		
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
					-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	MBSC (recirc)				-
	Incubator	-	2 units		-
	Centrifuge				-

OOM CRITERIA SHE	ET				
LAMS					
L) (III)	Comprehensive Lab Animal M	Monitoring.			CBS Procedure Roo
		-			First Floor
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	25 nsm	tbc	Full 24 hour use	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological		
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	150mm coved	<u> </u>	Door Finish	HPL	
	T	Tran D. Mark Hand	Frame Material	Timber	
Partitions Construction	Type 1 - 100% Blockwork	Type 2 - Not Used	Frame Finish Locks	Painted Key Lock& Thumb Turn	
Finish	Sikaguard coating	<u> </u>	Closers	Closer	
Protection	Wall + Corner Guards	<u> </u>	Vision Pnl	ciosei	-
roccon	Wait Conter Gaards		Protection	Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-
System	Special System	-	Other	Light-tight	-
Finish	Special Details	-			
Features	Washable	-	Window Coverings	At Façade	Internal
Height	<u> </u>	<u>.</u>	Туре	Roller Blinds	-
			Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
	<u> </u>		Manifestations / Film	<u> </u>	
	-				
			Chabring (pop Job)	Shalf	
	- - Wall and ceiling coatings to b	be Liquid Plastic/Sikaguard or	Shelving (non-lab)	Shelf 	Notes shading ideally on the
Architectural Notes	glass when blinds open. Sour	nd Attenuation: Acoustic cons			shading ideally on the
	glass when blinds open. Sour	nd Attenuation: Acoustic cons	similar. Blinds in this room nee ultant to advise on Sound Atte		shading ideally on the
Architectural Notes	glass when blinds open. Sour	nd Attenuation: Acoustic cons eaf and half between 1000-12	similar. Blinds in this room nee ultant to advise on Sound Atte		shading ideally on the
NGINEERING HVAC	glass when blinds open. Sour minimum. Clear opening of I	nd Attenuation: Acoustic cons	similar. Blinds in this room nee ultant to advise on Sound Atte	- ds to be light tight and privacy nuation. Doors: ** Clear openi ples only, to stop light bleed.	shading ideally on the
NGINEERING	glass when blinds open. Sour	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage	similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privacy nuation. Doors: ** Clear open ples only, to stop light bleed. Structural	shading ideally on the ing of full leaf 800 mm
NGINEERING HVAC Temp (°C): Summer	glass when blinds open. Sour minimum. Clear opening of l <u>Temp1</u> °C): Winter	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage	similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privacy nuation. Doors: ** Clear open ales only, to stop light bleed. Structural Loading	shading ideally on the ing of full leaf 800 mm
NGINEERING HVAC Temp_(°C): Summer 22oC Temp_Tolerance ± 2oC	glass when blinds open. Sour minimum. Clear opening of 1 <u>Temp (</u> ^o C): Winter <u>220C</u> <u>Temp Variation</u> ± 20C	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist 	similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privacy nuation. Doors: ** Clear open les only, to stop light bleed. Structural Loading Lab, normal	shading ideally on the ing of full leaf 800 mm
VGINEERING HVAC Itemo_(°C): Summer 22oC Itemp Tolerance ± 2oC Ventilation, supply	Interpret and the second secon	Drainage HDPE Chem Resist Electrical Power Supply	similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privacy. ds to be light tight and privacy. Structural Loading Lab, normal Equipment	shading ideally on the ing of full leaf 800 mm
VGINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling	Isas when blinds open. Sour minimum. Clear opening of I Isang (°C): Winter 22oC Isang Variation ± 2oC Ventilation, exhaust General & Dedicated	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist - Electrical Power Supply 230v, trunking	similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privacy ds to be light tight and privacy les only, to stop light bleed. Structural Loading Lab, normal Equipment - - - - - - - - - - - - -	shading ideally on the ing of full leaf 800 mm
VGINEERING HVAC Temp_(°C): Summer 22oC Temp Tolerance + 2oC Ventilation, supply Comfort Cooling Humidity	glass when bilinds open. Sour minimum. Clear opening of 1 Temp_I ^C C): Winter 22oC Temp Variation 4 2oC Ventilation, enhaust General & Dedicated Air Pressure	Drainage HDPE Chem Resist Electrical Power Supply	similar. Blinds in this room nee ultant to advise on Sound Atte	ds to be light tight and privacy. ds to be light tight and privacy. Structural Loading Lab, normal Equipment	shading ideally on the ing of full leaf 800 mm
VGINEERING HVAC 220C Temp_Tolerance ± 20C Ventilation, supply Comfort Cooling Humitity 504-135% RH	Items (C) C): Winter <u>Zeno (</u> C): Winter <u>Zeo C</u> <u>Zeo C</u> <u>Yenilation</u> <u>4 2oC</u> <u>4 of C</u> <u>4 delicated</u> <u>Air Presure</u> Negative Airlow	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	ds to be light tight and privacy ds to be light tight and privacy les only, to stop light bleed. Structural Loading Lab, normal Equipment - - - - - - - - - - - - -	shading ideally on the ing of full leaf 800 mm
VSINEERING HVAC 22oC Tenn Tolerance ± 2oC Ventilation.supply Comfort Cooling Humidity 504-735% RH Ar Filtration	Jass when blinds open. Source minimum. Clear opening of 1 <u>Z20C</u> : Winter <u>Z20C</u> : Winter <u>Z20C</u> Winte	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist - Electrical Power Supply 230v, trunking	similar. Blinds in this room nee ultant to advise on Sound Atte	c	shading ideally on the ing of full leaf 800 mm
GINEERING HVAC Temp_fC): Summer 220C Temp_Tolerance ± 20Cation_supply Ventilation_supply Comfort Cooling Humdity 50/-155K RH Air_Fitration F9 Supply	Items (C) C): Winter <u>Zeno (</u> C): Winter <u>Zeo C</u> <u>Zeo C</u> <u>Yenilation</u> <u>4 2oC</u> <u>4 of C</u> <u>4 delicated</u> <u>Air Presure</u> Negative Airlow	nd Attenuation: Acoustic cons earl and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	ds to be light tight and privacy ds to be light tight and privacy les only, to stop light bleed. Structural Loading Lab, normal Equipment - - - - - - - - - - - - -	shading ideally on the ing of full leaf 800 mm
VGINEERING HVAC Z2oC Temp_Tolerance ± 2oC Ventilation.supply Comfort Cooling Humdity SoV-15X RH Ar Fitration F9 Supply Min Air Charges	Jass when blinds open. Source minimum. Clear opening of 1 <u>Z20C</u> : Winter <u>Z20C</u> : Winter <u>Z20C</u> Winte	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	ds to be light tight and privacy ds to be light tight and privacy set only, to stop light bleed. Structural Loading Lab, normal Equipment Data / AV / Comms	shading ideally on the ing of full leaf 800 mm
SUNCERING HVAC Immp. ⁷ C): Summer <u>220C</u> <u>420Ction, supply</u> <u>420Ction, supply</u> <u>504/159K RH</u> <u>Air Fitration</u> <u>F9 Supply</u> <u>Min Air Changes</u> <u>17 AC/HR (Occupied)</u>	Jass when blinds open. Source minimum. Clear opening of 1 <u>Z20C</u> : Winter <u>Z20C</u> : Winter <u>Z20C</u> Winte	nd Attenuation: Acoustic cons earl and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	c	shading ideally on the ing of full leaf 800 mm
VGINEERING HVAC Z2oC Temp_Tolerance ± 2oC Ventilation.supply Comfort Cooling Humdity SoV-15X RH Ar Fitration F9 Supply Min Air Charges	Jass when blinds open. Source minimum. Clear opening of 1 <u>Z20C</u> : Winter <u>Z20C</u> : Winter <u>Z20C</u> Winte	nd Attenuation: Acoustic cons earl and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	ds to be light tight and privacy ds to be light tight and privacy set only, to stop light bleed. Structural Loading Lab, normal Equipment Data / AV / Comms	shading ideally on the ing of full leaf 800 mm
VGINEERING HVAC Emon (² C): Summer 220C Tenna Tolerance ± 20C Wentitation, supply Comfort Cooling Humidity 504-135% RH Arr Filtration F3 Supply Min Air Charges: 17 AC/HR (Occupied) Piped Services	Jass when blinds open. Source minimum. Clear opening of 1 <u>Z20C</u> : Winter <u>Z20C</u> : Winter <u>Z20C</u> Winte	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist 	similar. Blinds in this room need ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	ds to be light tight and privacy ds to be light tight and privacy set only, to stop light bleed. Structural Loading Lab, normal Equipment Data / AV / Comms	shading ideally on the ing of full leaf 800 mm
VGINEERING HVAC Temns (°C): Summer 220C Limms Tolerance ± 20C Ventilation, supply Ventilation, supply Ventilation, supply Ventilation, supply Ventilation, supply Min Art Changes 50V-135% RH Min Art Changes TA AC/HR (Occupied) Piped Services Water Lab CW & HW	Jass when blinds open. Source minimum. Clear opening of 1 <u>Z20C</u> : Winter <u>Z20C</u> : Winter <u>Z20C</u> Winte	d Attenuation: Acoustic conse eaf and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply Cleaners outlets 	similar. Blinds in this room nee ultant to advise on Sound Atte 000 mm. Doors to have peep ho	ds to be light tight and privacy ds to be light tight and privacy set open es only, to stop light bled. Structural Lob, mormal Lab, mormal Lab, mormal Data / AV / Comms Data / AV / Comms Data / AV / Comms Point Projection Projection Projection	shading ideally on the ing of full leaf 800 mm
VGINEERING HVAC Trang_ ¹ CD; Summer 230C Tamp_1Cerance ± 20C WetRitation, usually Comfort Cooling Humility 50/-153/8 RH Ar Fittration F9 Supply MinAir Changes 17 AC/HR (Occupied) Piped Services Lab CW & HW Ender Services	Jass when blinds open. Source minimum. Clear opening of 1 <u>Z20C</u> : Winter <u>Z20C</u> : Winter <u>Z20C</u> Winte	nd Attenuation: Acoustic cons eaf and half between 1000-12 Drainage HDPE Chem Resist - Electrical Power Supply 230x, trunking 230x, trunking Cleaners outlets - Esential / Standby Power - Minteference - Lighting Lighting	similar. Blinds in this room needulating a series of sound Attended to a series of sound Attended to a series of the series of t	ds to be light tight and privacy ds to be light tight and privacy set only, to stop light bleed. Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV /	
KINEERING HVAC Transf2C1; Summer 226C Transf2C1; Summer 226C Transf1Caraose 226C Confect Cooling 126C Confect Cooling 126C Confect Cooling 126C Analysis Ana	Jass when blinds open. Source in the second	d Attenuation: Acoustic conse eaf and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply Cleaners outlets 	similar. Blinds in this room nee ultant to advise on Sound Atte 000 mm. Doors to have peep ho	ds to be light tight and privacy ds to be light tight and privacy set only, to stop light bleed. Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV /	
VGINEERING HVAC Emen 2 ¹⁰ C ¹ : Summer 220C Tenna Tolerance ± 20C Wentlation, supply Comfort Cooling Humidity 504-135% RH Art Filtration F3 Supply Min Air Charges: 17 AC/HR (Occupied) Piped Services Water Lab CW & HW	Jass when blinds open. Source in the second	nd Attenuation: Acoustic cons earl and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Essential / Stantby Power Edition Edition General Lighting Lighting Lighting Switching	similar. Blinds in this room needulatin to advise on Sound Atte 00 mm. Doors to have peep he	ds to be light tight and privacy. ds to be light tight and privacy. ds to be light tight and privacy. ds to be light bleed. Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms	
VGINEERING HVAC Temp (°C): Summer 220C Temp Toferance ± 20C Wendbridton, supply Wendbridton, supply Wendbridton, supply Min Al Changes Min Al Changes H 5 Supply Min Al Changes H 7 AC/HR (Dec) 17 AC/HR (Dec) 17 AC/HR (Dec) HOLD Services Water Lab CVW & HW — — — — — — — — — — — — — — — — — — —	Jass when blinds open. Source in the second	d Attenuation: Acoustic conse and nath Between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply Ziox, trunking Cleaners outlets Electrical / Standby Power Electrical / S	similar. Blinds in this room nee ultant to advise on Sound Atte 000 mm. Doors to have peep ho	ds to be light tight and privacy ds to be light tight and privacy set only, to stop light bleed. Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV /	
KINEERING HVAC Transf2C1; Summer 226C Transf2C1; Summer 226C Transf1Caraose 226C Confect Cooling 126C Confect Cooling 126C Confect Cooling 126C Analysis Ana	Jass when blinds open. Source in the second	nd Attenuation: Acoustic cons earl and half between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Essential / Stantby Power Edition Edition General Lighting Lighting Lighting Switching	similar. Blinds in this room needulant to advise on Sound Atte 00 mm. Doors to have peep he	ds to be light tight and privacy. ds to be light tight and privacy. ds to be light tight and privacy. ds to be light bleed. Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms	
KINEERING HVAC Transf201; Summer 226C Transf201; Summer 226C Transfation, supply Comfort Cooling United State Soft Soft Soft Soft Soft Soft Soft Soft	Jass when blinds open. Source in the second	d Attenuation: Acoustic conse and nath Between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply Ziox, trunking Cleaners outlets Electrical / Standby Power Electrical / S	similar. Blinds in this room nee ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	ds to be light tight and privacy ds to be light tight and privacy set of the solution Ooks: ** Clear open is only, to stop light bleed. Structural Loading Lab, normal Edits / AV / Comms Dats / AV / Comms	Alarm Systems CETV CTV
VGINEERING HVAC Temp (°C): Summer 220C Temp Tolerance ± 20C Wendbridon, supply Wendbridon, supply Wendbridon, supply Min Al Changes Min Al Changes Piped Services Water Lab CW & HW — — — — — — — — — — — — — — — — — — —	Jass when blinds open. Source in the second	d Attenuation: Acoustic conse and nath Between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply Ziox, trunking Cleaners outlets Electrical / Standby Power Electrical / S	similar. Blinds in this room needulant to advise on Sound Atte 00 mm. Doors to have peep he	ds to be light tight and privacy. ds to be light tight and privacy. ds to be light tight and privacy. ds to be light bleed. Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms	
KINEERING HVAC Transf201; Summer 226C Transf201; Summer 226C Transfation, supply Comfort Cooling United State Soft Soft Soft Soft Soft Soft Soft Soft	Jass when blinds open. Source in the second	d Attenuation: Acoustic conse and nath Between 1000-12 Drainage HDPE Chem Resist Electrical Power Supply Ziox, trunking Cleaners outlets Electrical / Standby Power Electrical / S	similar. Blinds in this room nee ultant to advise on Sound Atte 00 mm. Doors to have peep ho 	ds to be light tight and privacy ds to be light tight and privacy set of the solution Ooks: ** Clear open is only, to stop light bleed. Structural Loading Lab, normal Edits / AV / Comms Dats / AV / Comms	Alarm Systems CETY CETY

LABORATORY FURNIT	URE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Movable	Trespa Toplab Base	-		
	·	-			
Other LF Elements	Above Lab Bench		Other Storage Units		
	Shelving, wall mtd	-	-	-	-
	-	-		-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, PT	D included)
	Sink- Epoxy (integral)	Lab CW (Cat 5)	Lever Handle (mixer)	Splash Pnl & Dry Rack	-
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	
LABORATORY EQUIPN	MENT (ASE*) refer to MRC list				
				ering) Significant Equipment	
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Other Lab Equip	Environmentak Chamber			-
					-
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	CLAMS Holding Cabinet		2 units		-
					-

Behavioural Procedu	ro Antoroom				
enavioural Procedu	Anterooms to key labs.				CBS Procedure Roo
	Anterooms to key laba.				First Floor
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	12 nsm		Full 24 hour use	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological	<u> </u>	-
CHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	150mm coved	<u> </u>	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork	-	Locks	Key Lock& Thumb Turn	-
Finish	Sikaguard coating	-	Closers	Closer	-
Protection	Wall + Corner Guards	-	Vision Pnl	<u>.</u>	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-
System	Special System	-	Other	Light-tight	-
Finish	Special Details	-			
Features	Washable	-	Window Coverings	At Façade	Internal
Height	-	-	Туре	Roller Blinds	-
			Light Control	Solar & Grey-out	-
	Items	Notes	Operation	Manual	-
Accessories (non-Lab)					
Accessories (non-Lab)	-		Manifestations / Film	-	-
Accessories (non-Lab)			Manifestations / Film		
Accessories (non-Lab)			Manifestations / Film Shelving (non-lab)	- Shelf	- Notes
Accessories (non-Lab)			Shelving (non-lab)	÷	
Accessories (non-Lab)	- - - - Wall and ceiling coatings to b		Shelving (non-lab)		Sound Attenuation. Doe
	- - - Wall and ceiling coatings to b ** Clear opening of full leaf 8		Shelving (non-lab)		Sound Attenuation. Doe
Accessories (non-Lab) Architectural Notes	- - - - Wall and ceiling coatings to b		Shelving (non-lab)		Sound Attenuation. Doe
	- - - Wall and ceiling coatings to b ** Clear opening of full leaf 8		Shelving (non-lab)		Sound Attenuation. Doe
Architectural Notes	- - - Wall and ceiling coatings to b ** Clear opening of full leaf 8		Shelving (non-lab)		Sound Attenuation. Doe
Architectural Notes	- - - Wall and ceiling coatings to b ** Clear opening of full leaf 8		Shelving (non-lab)		Sound Attenuation. Doe
Architectural Notes NGINEERING HVAC	- - - Wall and ceiling coatings to t ** Clear opening of full leaf a bleed.	300 mm minimum. Clear oper	Shelving (non-lab)		Sound Attenuation. Doe
Architectural Notes HGINEERING HVAC Temp(² C): Summer	- - - Wall and ceiling coatings to b ** Clear opening of full leaf 8	300 mm minimum. Clear oper Drainage	Shelving (non-lab)		Sound Attenuation. Doo
Architectural Notes	- - - Wall and ceiling coatings to b with the ceiling coating of full leaf to bleed. Temp_I^CC): Winter 22oC	300 mm minimum. Clear oper Drainage	Shelving (non-lab)		Sound Attenuation. Doo
Architectural Notes	- - - Wall and ceiling coatings to to t* Clear opening of full leaf a bleed. Temp (² C): Winter <u>220C</u> Temp Valston	300 mm minimum. Clear oper Drainage	Shelving (non-lab)	- coustic consultant to advise on 000-1200 mm. Doors to have p Structural Loading	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp (C): Summer 22oC Temp Tolerance 12oC	- - - Wall and ceiling coatings to b with the ceiling coating of full leaf to bleed. Temp_I^CC): Winter 22oC	Drainage HDPE Chem Resist	Shelving (non-lab)	- coustic consultant to advise on 000-1200 mm. Doors to have p Structural Loading	Sound Attenuation. Doo
Architectural Notes WAC Temp I ^C C): Summer 220C Temp Tolerance ± 20C Wentilation, supply		Drainage HDPE Chem Resist Electrical	Shelving (non-lab)	- coustic consultant to advise on 000-1200 mm. Doors to have p Structural Loading	Sound Attenuation. Doo
Architectural Notes	- - Wall and celling coatings to 1 t* Clear opening of full leaf to bleed. Temp (² C): Winter <u>Z2oC</u> Ventilation <u>± 2oC</u>	Drainage HDPE Chem Resist	Shelving (non-lab)	- coustic consultant to advise on 000-1200 mm. Doors to have p Structural Loading - coursent - coursent	Sound Attenuation. Doo
Architectural Notes	Image: Second	Drainage HDPE Chem Resist 	Shelving (non-lab)	- coustic consultant to advise on 000-1200 mm. Doors to have p Structural Loading Equipment Data / AV / Comms	Sound Attenuation. Doo
Architectural Notes	- - - - - - - - - - - - - -	Drainage HDPE Chem Resist Electrical 230v, trunking Cleaners outlets	Shelving (non-lab)	- coustic consultant to advise on 000-1200 mm. Doors to have p Structural Loading Equipment Data / AV / Comms	Sound Attenuation. Doo
Architectural Notes VGINEERING HVAC Immg ¹ Co: Summer 220C Ventlation, supply Ventlation, supply Comfort Cooling Hummithy 504/-155% RH Ár filtration	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuotion: At ing of leaf and half between 10	Consultant to advise on ODD 1200 mm. Doors to have p Structural Loading Eulipment Data / AV / Comms Data / AV / Comms Comms	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC 22oC Temp Tolerance ± 2oC Ventilation, supply Confort Cooling Humility 504/-15% RH Air Filtration FS Supply	- - - - - - - - - - - - - -	Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuotion: At ing of leaf and half between 10	- coustic consultant to advise on 000-1200 mm. Doors to have p Structural Loading Equipment Data / AV / Comms	Sound Attenuation. Doo
Architectural Notes VGINEERING HVAC Imm_1 ^{clos} : Summer 220C Yentlation, supply Yentlation, supply Yentlation Arc Filtration F9 Supply Min.Arc Charges	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HDPE Chem Resist Electrical 230v, trunking Cleaners outlets	Shelving (non-lab) similar. Sound Attenuotion: At ing of leaf and half between 10	Consultant to advise on Consultant to advise on Const to have p Structural Loading Const to have p Data / AV / Comms	Sound Attenuation. Doo
Architectural Notes VGINEERING HVAC 22oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humility 504/-15% RH Air Fituation F5 Supply Min Ar Changes 17 AC/HR (Occupied)	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuotion: At ing of leaf and half between 10	Consultant to advise on ODD 1200 mm. Doors to have p Structural Loading Eulipment Data / AV / Comms Data / AV / Comms Comms	sound Attenuation. Doo
Architectural Notes VGINEERING HVAC Isong ¹ Cy: Summer 220C Yentlation, supply Yentlation, supply Yentlation, Supply Mar.Filtration F9 Supply Mar.AirCharges 17 AC/HR (Occupied) Piped Services	Will and ceiling coating to to Will and ceiling coating to to the second	Drahage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuotion: At ing of leaf and half between 10	Consultant to advise on Consultant to advise on Const to have p Structural Loading Const to have p Data / AV / Comms	sound Attenuation. Doo
Architectural Notes GINEERING HVAC Temp Tokrance 22oC Temp Tokrance 22oC VentBition, supply Confort Cooling Numikity 504/-155 RH Air Filtation F9 Supply Min.Ar Changes TA CL/HR (Occupied) Piped Services Water	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sogaly Zalow, trunking Cleaners outlets Escential (Sanday Power Escential (Sanday Power Entities) Escential (Sanday Power Entities) Utghting Utghting	Shelving (non-lab) isinilar. Sound Attenuation: An ing of leaf and half between 10	Structural Loading Structural Data / AV / Comms Structural Projection Structural Structura	sound Attenuation. Doo
Architectural Notes VGINEERING HVAC Imm_1 ^{clos} : Summer 220C Ventilation, supply Ventilation, supply Ventilation, supply Gon/fort Cooling Hummithy 50-/-15% RH Arr Filtration FP Supply Min.Arr Charges 17 AC/IR (Occupied) 17 AC/IR (Occupied) 17 AC/IR (Occupied)	Will and ceiling coating to to Will and ceiling coating to to the second	Drahage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: At ing of leaf and half between 10	Consultant to advise on Consultant to advise on Const to have p Structural Loading Euler Data / AV / Comms Constant Constant	Sound Attenuation. Doe seep holes only, to step 1 <u>Vibration Criteria </u>
Architectural Notes KGINEERING HVAC Temp Tolerance 220C Temp Tolerance 4 20C Ventation, supply Confort Cooling Humdity 50V-15% RH Air filtration F9 Supply Min.Air Changet JA C/HR (Occupied) Piped Services Water Lab CV & HW 	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HDPE Chem Resist Electrical Power Sogaly 2300, trunking Cleaners outlets Escettal / Sandby Power Eschertal / Sandby Power	Shelving (non-lab) similar. Sound Attenuation: An ing of leaf and half between 10	Structural Loading Structural Structu	sound Attenuation. Doo
Architectural Notes VGINEERING HVAC Temps ⁽² C): Summer 220C Temp of C): Summer 220C Temp of Constances 2 20C Ventilation.supply Ventilation.supply S04-1-55% RH 4/ Filtration F9 Supply Min Ar Charges 17 AC/HR (Occupied) 17 AC/HR (Occupied) Lab CV & HW	Will and ceiling coating to to Will and ceiling coating to to the second	Drahage HDPE Chem Resist 	Shelving (non-lab) similar. Sound Attenuation: At ing of leaf and half between 10	Consultant to advise on Consultant to advise on Const to have p Structural Loading Euler Data / AV / Comms Constant Constant	Sound Attenuation. Doe seep holes only, to step 1 <u>Vibration Criteria </u>
Architectural Notes VGINEERING HVAC Temms(°G): Summer 220C Temp Tolerance ± 20C Ventilation, supply Connort Cooling Humidity SOF JISSIAN BOD SOF Congress Min Alt Congress Value Lab CW & HW T Ded Services Value	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HDPE Chem Resist Electrical Power Sogaly 2300, trunking Cleaners outlets Escettal / Sandby Power Eschertal / Sandby Power	Shelving (non-lab) similar. Sound Attenuation: An ing of leaf and half between 10	Consultant to advise on Consultant to advise on Const to have p Structural Loading Euler Data / AV / Comms Constant Constant	Sound Attenuation. Doe seep holes only, to step 1 <u>Vibration Criteria </u>
Architectural Notes VGINEERING HVAC Temp ² C): Summer Z2oC Temp Tolerance 4 2 oC Vertilation, supply Vertilation, supply Vertilation, Supply Min Air Charges 17 AC/HR (Occupied) 17 AC/HR (Occupied) 17 AC/HR (Occupied) Lab CV & HW Piped Services Valer Lab CV & HW Piped Services	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HOPE Chem Resist HOPE Chem Resist Electrical Power Sought 230v, tranking Cleaners outlets Salv, tranking Cleaners outlets Minterference Uphting Uphting Uphting Salving Cleaners Uphting Salving Cleaners Cleaners Salving Cleaners Cleaners Salving Cleaners Salving Cleaners Salving Cleaners Salving Salvi	Shelving (non-lab) similar. Sound Attenuation: Ac ing of leaf and half between 10	Consultant to advise on Consultant to advise on Const to have p Structural Loading Const to have p Data / AV / Comms Security Constant Security / Life Safety Security / Life Safety Security / Systems Constant	Sound Attenuation. Doe seep holes only, to step 1 <u>Vibration Criteria </u>
Architectural Notes VGINEERING HVAC Temn [² O: Summer 220C Temp Toferance 4 20C Ventilation, supply Comfort Cooling Hummitity S0V-155K HH dir Illustoph Piped Services Valter Lab CW & HW	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sogaly Zalow, trunking Cleaners outlets Escential (Sanday Power Ent Interference Ent Interference Ent Interference Cleaners Uighting Uighting Uighting Satistichus Other Lighting Other Lighting	Shelving (non-lab) similar. Sound Attenuation: A ing of leaf and half between 10	Structural Loading Structural Structural	Sound Attenuation. Doe eep holes only, to stop 1 <u>Vibration Criteria</u> - - - - - - - - - - - - -
Architectural Notes NGINEERING HVAC Temen 2 ¹ °C): Summer 22oC Temp 1 ^o C): Summer 24 20C Wentlation, supply Comfort Cooling Humatily S04-1536tH S04-1536tH S04-1536tH Min Al Changel Min Al Changel Min Al Changel TA AC/HR (Occupied) Piped Services Water Lab CW & HW	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HOPE Chem Resist HOPE Chem Resist Electrical Power Sought 230v, tranking Cleaners outlets Salv, tranking Cleaners outlets Minterference Uphting Uphting Uphting Salving Cleaners Uphting Salving Cleaners Cleaners Salving Cleaners Cleaners Salving Cleaners Salving Cleaners Salving Cleaners Salving Salvi	Shelving (non-lab) similar. Sound Attenuation: At ing of leaf and half between 10	Consultant to advise on Consultant to advise on Const to have p Structural Loading Const to have p Data / AV / Comms Security Constant Security / Life Safety Security / Life Safety Security / Systems Constant	Sound Attenuation. Doe
Architectural Notes VGINEERING HVAC Temn [² O: Summer 220C Temp Toferance 4 20C Ventilation, supply Comfort Cooling Hummitity S0V-155K HH dir Illustoph Piped Services Valter Lab CW & HW	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sogaly Zalow, trunking Cleaners outlets Escential (Sanday Power Ent Interference Ent Interference Ent Interference Cleaners Uighting Uighting Uighting Satistichus Other Lighting Other Lighting	Shelving (non-lab) similar. Sound Attenuation: A ing of leaf and half between 10	Structural Loading Structural Loading Structural Loading Equipment Data / AV / Comms Data / AV / Comms Data / AV / Comms Comms Comma	Sound Attenuation. Doe eep holes only, to stop 1 Vibration Criteria
Architectural Notes NGINEERING HVAC Temn(² °C): Summer 220C Temn Toferance 4 20C Wentilation, supply Comfort Cooling Hummitily S04-155K HH dat Illustation Programmer 13 AC/HR (Coupled) Piped Services Vatar Lab CUW & HW	Will and ceiling coating to to Will and ceiling coating to to the second	Drainage HDPE Chem Resist HDPE Chem Resist Electrical Power Sogaly Zalow, trunking Cleaners outlets Escential (Sanday Power Ent Interference Ent Interference Ent Interference Cleaners Uighting Uighting Uighting Satistichus Other Lighting Other Lighting	Shelving (non-lab) similar. Sound Attenuation: At ing of leaf and half between 10	Structural Loading Structural Structural	Sound Attenuation. Doe

URE				
Type Bench, Movable	Benchtop Material Trespa Toplab Base	<u>Depth</u> - -	Notes	
Above Lab Bench Shelving, wall mtd -		Other Storage Units - -	-	
Sink Type	Water Source	Taps -	-	
		Hands-free (sonar)	Lab Safety Eye Wash	1
ALIAT (ASE / TETEL to MIKE I		* ASE = Architecturally (/Engin	eering) Significant Equipme	nt ** O = Owner C = Contr
Extract Equipment	Name/Model	Quantity	Size	Furnish - Install** - -
Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Type Bench, Movable Above Lab Bench Sheiving, wall mtd Sink Type Wash Hand Basin EXTY (ASE*) refer to MRC I Extract Equipment	Tuge Benchtop Material Bench, Movable Trespa Toplab Base Above Lab Bench - Sheking, wall mtd - Sink Truge Water Source Wash Hand Basin Lab CW & HW Ektra CASE"/ refer to MRC list - Extra C Supment Name/Model - -	Type Benchiop Material Degth Bench, Movable - - - Above Lab Bench Other Storage Units - - Shelving, wall mtd - - - - Sink Tripe Water Source Taps - - Sink Tripe Water Source Taps - - Wath Hand Basin Lab CW & HW Hands-free (sonar) REMT (ASE?) refer to MRC list * ASE = Architecturally (/Engin Extract Equipment Name/Model Quantity - -	Type Benchtion Material Death Notes Bench, Movable Trespa Toplab Base - - - Above Lab Bench Other Storage Units - - - Shelving, wall mtd - - - - Sink Trype Water Source Taps Accessories (assume 3) Wash Hand Basin Lab CW & HW Hands-free (sonar) Lab Safety Eye Wash AEEUT (ASE*) refer to MRC list * ASE = Architecturally (/Engineering) Significant Equipment Size Estrat Equipment Name/Model Guantity Size

ROOM CRITERIA SHEET					
Behavioural Procedu	re - Watermaze				
					CBS Procedure Roo
					First Floor
GENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	17 nsm	tbc	Full 24 hour use	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological	Noise	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	<u> </u>	Operation	Swinging	-
Floor Finish Skirting	Vinyl 150mm coved		Door Material Door Finish	Timber- Solid Core HPL	
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork	<u> </u>	Locks	Key Lock& Thumb Turn	<u>.</u>
Finish Protection	Sikaguard coating Wall + Corner Guards		Closers Vision Pnl	Closer Peep Hole Only	-
FIOLECCION	waii + comer duarus	<u> </u>	Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-
System	Special System	<u> </u>	Other	-	-
Finish Features	Special Details Washable	<u> </u>			
Height	wasnable		Window Coverings Type	At Façade Roller Blinds	Internal
neight			Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
	<u>-</u>		Manifestations / Film	-	-
	-		Shahina (non loh)	Sholf	Notos
			Shelving (non-lab)	Shelf	Notes
	- - -		- , ,	<u> </u>	
			iling coatings to be Liquid Plast	- ic/Sikaguard or similar. Blinds i	in this room needs to be
Architectural Notes	light tight and privacy shadin Doors: ** Clear opening of f	g ideally on the glass when b ull leaf 800 mm minimum. Cle	- , ,	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise	in this room needs to be on Sound Attenuation.
Architectural Notes	light tight and privacy shadin	g ideally on the glass when b ull leaf 800 mm minimum. Cle	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise	in this room needs to be on Sound Attenuation.
	light tight and privacy shadin Doors: ** Clear opening of f	g ideally on the glass when b ull leaf 800 mm minimum. Cle	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise	in this room needs to be on Sound Attenuation.
Architectural Notes	light tight and privacy shadin Doors: ** Clear opening of f	g ideally on the glass when b ull leaf 800 mm minimum. Cle	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise ween 1000-1200 mm. Doors to Structural	in this room needs to be on Sound Attenuation.
NGINEERING HVAC Temp (°C): Summer	light tight and privacy shadin Doors: ** Clear opening of f stop light bleed. Wall drain of Temp (°C): Winter	g ideally on the glass when bi ull leaf 800 mm minimum. Cle required.	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise ween 1000-1200 mm. Doors to	in this room needs to be on Sound Attenuation.
NGINEERING HVAC Temp([°] C): Summer 22oC	light tight and privacy shadin Doors: ** Clear opening of fi stop light bleed. Wall drain to Temp (^o C): Winter 22oC	g ideally on the glass when bi ull leaf 800 mm minimum. Cle equired. Drainage	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise ween 1000-1200 mm. Doors to Structural Loading	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
NGINEERING HVAC Temp(°C): Summer 22oC TempTolerance	light tight and privacy shadin Doors: ** Clear opening of f stop light bleed. Wall drain to Temp_ ^o C): Winter 22oC Temp Variation	g ideally on the glass when bi uil leaf 800 mm minimum. Cle equired. Drainage HDPE Chem Resist	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blindsi Acoustic consultant to advise ween 1000-1200 mm. Doors to Structural Loading - Equipment	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
HVAC <u>Temp(</u> ^o C): Summer <u>22oC</u> <u>Temp Tolerance</u> ± 2oC	light tight and privacy shadin Doors: ** Clear opening of fi stop light bleed. Wall drain of <u>Temp (°</u> C): Winter <u>220C</u> <u>Temp Variation</u> ± 20C	g ideally on the glass when b ull leaf 800 mm minimum. Cle equired. Drainage HDPE Chem Resist Electrical	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise ween 1000-1200 mm. Doors to Structural Loading	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
NGINEERING HVAC Temp(°C): Summer 22oC TempTolerance	light tight and privacy shadin Doors: ** Clear opening of f stop light bleed. Wall drain to Temp_ ^o C): Winter 22oC Temp Variation	g ideally on the glass when bi uil leaf 800 mm minimum. Cle equired. Drainage HDPE Chem Resist	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blindsi Acoustic consultant to advise ween 1000-1200 mm. Doors to Structural Loading - Equipment	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
INGINEERING HVAC <u>Temp (</u> ^o C): Summer <u>220C</u> <u>Temp Tolerance</u> <u>4 20C</u> <u>Yentilation, supply</u> <u>Comfort Cooling</u> <u>Humidity</u>	light tight and privacy shading Doors: ** Clear Opening of fl atop light bleed. Wall drain in Temp (² C): Winter <u>22oC</u> <u>Temp Variation</u> <u>4 2oC</u> <u>Veriflation, enhauti</u> <u>General & Dedicated</u> <u>Air Pressure</u>	g ideally on the glass when bi ull leaf 800 mm minimum. Cle required. Drainage HDPE Chem Resist 	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	- Construction of the second s	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
INGINEER/ING HVAC Temp 20C 22oC Hernp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity Solv/-15% RH	light tight and privacy shading poors: ** Clear opening of f stop light bleed. Wall drain of <u>ZooC</u> <u>Yenslation</u> <u>± 2oC</u> <u>Yenslation</u> <u>± 2oC</u> <u>Yenslation</u> <u>± 2oC</u> <u>Air Pressure</u> <u>Negative Airflow</u>	gi deally on the glass when bi leaf 800 mm minimum. Cle equired. Drainage HDPE Chem Resist 	ling coatings to be Liquid Plast linds open. Sound Attenuation: ar opening of leaf and half bet 	- Crossing of a similar. Blinds: Crossite consultant to advise ween 1000-1200 mm. Doors to Structural Loading - Equipment - Data / AV / Comms	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
Instruction Immediation Construction 22oC Immediation 1 and Construction Construction 2 and Construction Immediation Comfort Cooling Immediation Marriel Research Solv-155% RH Addr Filtration Solver	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	g ideally on the glass when b uil leaf 800 mm minimum. Cle equired. Drainage HDPE Chem Resist 	iling coatings to be Liquid Plasti inds open. Sound Attenuation:	Kostaguard or similar. Blinds: Kostak: consultant to advice ween 1000-1200 mm. Doors to Structural Loading Eulopment Data / AV / Comms Data / AV / Comms	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
NGINEERING HVAC Temps 120C, Summer 220C Temps 1derance # 23C Comfort Cooling Humidity 50/-15% RH Air Fitration PS Supply	light tight and privacy shading poors: ** Clear opening of f stop light bleed. Wall drain of <u>ZooC</u> <u>Yenslation</u> <u>± 2oC</u> <u>Yenslation</u> <u>± 2oC</u> <u>Yenslation</u> <u>± 2oC</u> <u>Air Pressure</u> <u>Negative Airflow</u>	gi deally on the glass when bi leaf 800 mm minimum. Cle equired. Drainage HDDPE Chem Resist Electrical Power Supply 230w, trunking Cleaners outlets Essential / Standby Power	ling coatings to be Liquid Plast linds open. Sound Attenuation: ar opening of leaf and half bet 	- Crossing of a similar. Blinds: Crossite consultant to advise ween 1000-1200 mm. Doors to Structural Loading - Equipment - Data / AV / Comms	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
Instruction Immediation Construction 22oC Immediation 1 and Construction Construction 2 and Construction Immediation Common Cooling Immediation Main Filtration Solv-15% RH Addr Filtration Solver	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi deally on the glass when bi leaf 800 mm minimum. Cle equired. Drainage HDPE Chem Resist 	ling coatings to be Liquid Plast linds open. Sound Attenuation: ar opening of leaf and half bet 	Kostaguard or similar. Blinds: Kostak: consultant to advice ween 1000-1200 mm. Doors to Structural Loading Eulopment Data / AV / Comms Data / AV / Comms	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
NGINEERING HVAC Temmg1 ² C): Summer <u>22oC</u> //writilation.supply Comfort Cooling Humidity Sol-1/5% RH Humidity Sol-1/5% RH Humidity Min.Al/Charges <u>17 AC/HR (Occupied)</u> Piped Services	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealiy on the glass when b li li del 800 nm minimum. Ce equired. Drahage HDPE Chem Resist - Electrical Permit Supply 230y, trunking Cleaners outlets - Essential / Slandby Power - HinterFerence	ling coatings to be Liquid Plast linds open. Sound Attenuation: ar opening of leaf and half bet 	- Acoustic consultant to advice kc/skaguard or similar. Blindsi Acoustic consultant to advice ween 1000-1200 mm. Doors to Structural Loading 	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
INGINEERING HVAC Temma [°C): Summer 2200 Temma Universite 4 200 Contrort Cooling Humility Solv-135% RH Air Filtration 79 Supply Min Air Changes Min Ar Changes JA AC/HR (Occupied) Piped Services Watter	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealij on the glass when bi li deal 300 nm minimum. De equired.	ling coatings to be Linuid Plasti indis open. Sound Attenuation ar opening of leaf and half bet 	Cislaguard or similar. Blinds Acoustic consultant to addres ween 1000-1200 mm. Doors to Doda / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Cigital Projection Cigital Projection Cigital Projection	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
NGINEERING HVAC Temmg1 ² C): Summer <u>22oC</u> //writilation.supply Comfort Cooling Humidity Sol-1/5% RH Humidity Sol-1/5% RH Humidity Min.Al/Charges <u>17 AC/HR (Occupied)</u> Piped Services	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealiy on the glass when bill likel 480 nm minimum.Ce Parknage HDPE Chem Resist 	ling coatings to be Liquid Plasts indo open. Sound Attenuation: ar opening of leaf and half bet 	- Acoustic consultant to advice kc/skaguard or similar. Blindsi Acoustic consultant to advice ween 1000-1200 mm. Doors to Structural Loading 	in this room needs to be on Sound Attenuation. have peep holes only, to <u>Wbration Criteria</u>
INGINEERING HVAC Temma [°C): Summer 2200 fmm tiderance fmm	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealij on the glass when bi li deal 300 nm minimum. De equired.	Iing coatings to be Livid Plasti Iings open. Sound Attenuation ar opening of leaf and half bet 	Cislaguard or similar. Blinds Acoustic consultant to addres ween 1000-1200 mm. Doors to Doda / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Data / AV / Comms Cigital Projection Cigital Projection Cigital Projection	in this room needs to be on Sound Attenuation. 5 have peep holes only, to
Instruction Instr	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealij on the glass when bi li deal 300 nm minimum. De equired.	ling coatings to be Liquid Plasts indo open. Sound Attenuation: ar opening of leaf and half bet 	- Acoustic consultant to advice kc/skaguard or similar. Blindsi Acoustic consultant to advice ween 1000-1200 mm. Doors to Structural Loading 	in this room needs to be on Sound Attenuation. have peep holes only, to <u>Wbration Criteria</u>
NGINEERING HVAC Temp1 ⁽² C): Summer <u>22oC</u> Imm Toferance <u>4 2oC</u> Writtlation.supply Comfort Cooling Humidity Sol-1/5% RH Humidity Sol-1/5% RH Humidity BinAir Charges <u>17 AC/HR (Occupied)</u> Piled Services Water Lab CW & HW	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealij on the glass sheh i ule slaso me minimum. Di li del 800 me minimum. Di Poralnage HOPE Chem Resist Electrical Electrical Electrical Electrical Electrical Electrical Essential / Sandby Power Essential / Sandby Power Estimation General Lighting Sectional Electrical	ling costings to be Liquid Plasts indo open. Sound Attenuation: ar opening of leaf and half bet 	- Acoustic consultant to advice kc/skaguard or similar. Blindsi Acoustic consultant to advice ween 1000-1200 mm. Doors to Structural Loading 	in this room needs to be on Sound Attenuation. have peep holes only, to <u>Wbration Criteria</u>
Instruction of the second seco	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealij on the glass when bi li deal 300 nm minimum. Ce equired.	ling coatings to be Linuid Plasti infos opens. Sound Attenuation: ar opening of leaf and half bet 	- Acoustic consultant to advice kc/skaguard or similar. Blindsi Acoustic consultant to advice ween 1000-1200 mm. Doors to Structural Loading 	In this room needs to be on Sound Attenuation. In have peep holes only, to <u>VBration Criteria</u>
Instruction Instr	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealij on the glass sheh i ule slaso me minimum. Di li del 800 me minimum. Di Poralnage HOPE Chem Resist Electrical Electrical Electrical Electrical Electrical Electrical Essential / Sandby Power Essential / Sandby Power Estimation General Lighting Sectional Electrical	ling costings to be Liquid Plasts indo open. Sound Attenuation: ar opening of leaf and half beet 	- Acoustic consultant to advice kc/skaguard or similar. Blindsi Acoustic consultant to advice ween 1000-1200 mm. Doors to Structural Loading 	in this room needs to be on Sound Attenuation. have peep holes only, to <u>Wbration Criteria</u>
Instruction Instr	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealij on the glass when bi li deal 300 nm minimum. Ce equired.	Iling coatings to be Likeld Plasti Infos opens. Sound Attenuation: ar opening of leaf and half bet 	Construction of similar. Blinds: Acoustic consultant to address Acoustic consultant to address Acoustic consultant to address Structural Loading 	His room needs to be or Sound Attenuation. in this room needs to have prepholes only, to vibration Criteria -
NGINEERING HVAC Temma[¹ C): Summer <u>22oC</u> <u>1 20C</u> <u>2 </u>	light tight and privacy shadil poor: ** Clear opening of f top light bleed. Wall drain n <u>ZaoC</u> V. Winter <u>ZaoC</u> V. Winter <u>ZaoC</u> Ventilation <u>± 2oC</u> Ventilation <u>drift pressure</u> <u>Negative Airflow</u> <u>Eudopment</u>	gi dealij on the glass when bi li deal 300 nm minimum. Ce equired.	ling costings to be Liquid Plasts indo open. Sound Attenuation: ar opening of leaf and half beet 	- Acoustic consultant to advice kc/skaguard or similar. Blindsi Acoustic consultant to advice ween 1000-1200 mm. Doors to Structural Loading 	In this room needs to be on Sound Attenuation. In have peep holes only, to <u>Vibration Criteria</u>

Lab Benching	Type Bench, Movable	Benchtop Material Trespa Toplab Base -	Depth 750mm -	Notes	
Other LF Elements	Above Lab Bench		Other Storage Units -	. <u>-</u>	
Lab Sinks	- <u>Sink Type</u> Wash Hand Basin	- Water Source Lab CW & HW	- <u>Taps</u> Hands-free (sonar)	- Accessories (assume SD, PT Lab Safety Eye Wash	- ID included) -
LABORATORY EQUIPM	MENT (ASE*) refer toMRC		* ASE = Architecturally (/Engin	eering) Significant Equipment	** Q = Owner C = Contra
	Extract Equipment - -	Name/Model	Quantity	<u>Size</u>	Furnish - Install**
	Equipment Other Lab Equip	Name/Model Watermaze Pool	Quantity	<u>Size</u> 1500 dia.	Furnish - Install** -

Note: RCSs are preliminary, with detail to be agreed with the Users during RIBA Stage 3. V1.00

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Behavioural Procedure - Watermaze

ROOM CRITERIA SHE					
Behavioural Procedu	re - Behavioural App	aratus			
	Desription of Lab and its ope	rations			CBS Procedure Roc
					First Floor
ENERAL	Nominal Area 16 nsm	Occupants tbc	Hours in Use Full 24 hour use	Equality Act Compliance Compliant	Natural Light Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
caboratories only.	ACDP CL2	No	Biological	Noise	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Туре	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	<u>.</u>	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	150mm coved	-	Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork	-	Locks	Key Lock& Thumb Turn	-
Finish	Sikaguard Coating	-	Closers	Closer	-
Protection	Wall + Corner Guards	-	Vision Pnl	Peep Hole Only	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-
System	Special System	<u>.</u>	Other	Light-tight	-
Finish	Special Details	-			
Features	Washable	-	Window Coverings	At Façade	Internal
Height	-	-	Туре	Roller Blinds	
			Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
Accessories (non-Lab)	Items	Notes			-
Accessories (non-Lab)	<u>Items</u> - -	Notes	Operation		-
Accessories (non-Lab)	<u>Items</u> - -	Notes	Operation		- - Notes
	- - - Wall and ceiling coatings to b ** Clear opening of full leaf 8	be Liquid Plastic/Sikaguard or	Operation Manifestations / Film	Manual Shelf coustic consultant to advise on	Sound Attenuation. Doc
Architectural Notes	- - - - Wall and ceiling coatings to b	be Liquid Plastic/Sikaguard or	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual Shelf coustic consultant to advise on	Sound Attenuation. Doc
Architectural Notes	- - - Wall and ceiling coatings to b ** Clear opening of full leaf 8	be Liquid Plastic/Sikaguard or 800 mm minimum. Clear open	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual 	Sound Attenuation. Doc
Architectural Notes NGINEERING HVAC	- - - Wall and celling coatings to t ** Clear opening of full leaf a bleed.	be Liquid Plastic/Sikaguard or 800 mm minimum. Clear oper Drainage	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual Shelf Shelf Shoustic consultant to advise on Structural	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp (² C): Summer	- - - Wall and celling costings to t ** Clear opening of full leaf a bleed. Temp (^o C): Winter	be Liquid Plastic/Sikaguard or 800 mm minimum. Clear open	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual 	Sound Attenuation. Doc
Architectural Notes	- Wall and ceiling coatings to b We Clear opening of full leaf to bleed. Temp_PCD: Winter Z2bC	be Liquid Plastic/Sikaguard or 800 mm minimum. Clear oper Drainage	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp [² O]: Summer 22oC Temp Tolerance	- - Wall and celling coatings to b the Clear opening of full leaf to bleed. Temp (² C): Winter <u>Z2oC</u> Temp Variation	De Liquid Plastic/Sikaguard or 800 mm minimum. Clear oper Drainage HDPE Chem Resist	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual Shelf Shelf Shoustic consultant to advise on Structural	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp (² C): Summer 220C Temp Tolerance + 20C	- - - -	Drainage HDPE Chem Resist	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp (² C): Summer 22oC Ventilation, supply	- - Wall and celling coatings to 1 ** Clear opening of full leaf to bleed. Temp (² C): Winter <u>Z2oC</u> Ventilation + 2 oC	Drainage HDPE Chem Resist Electrical Power Supply	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp2 ⁶ C): Summer 22oC Temp Tolerance + 2oC Ventilation, supply Comfort Cooling	- - - - - - Wall and celling coatings to the second secon	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual Stheff Structural Loading Loading Structural Loading Data / AV / Comms	Sound Attenuation. Doo
Architectural Notes	Will and celling coatings to to We claim opening of full leaf is bleed. Termp (² C): Winter Z20C Ventilation, exhaust 4 20C Air Pressing Air Pressing	Drainage HDPE Chem Resist Electrical Power Supply	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp2 ⁶ C): Summer Z2oC Temp Tolerance 4 20C Ventilation, supply Comfort Cooling Humility Solv/-15% RH	- - - Wall and ceiling coatings to to the Clear opening of full leaf I bleed. Temp (² C): Winter 220C Temp Valiation + 20C Ventilation, achaust General & Decitated Alf Pressure Negative Alflow	Drainage HDPE Chem Resist Electrical Power Sought Electrical Clamers outlets	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation Action ing of leaf and half between 10	Manual Stheff Structural Loading Loading Structural Loading Data / AV / Comms	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp_1Cpt, Summer 220C Temp_Toterang 1 20C Ventilation, supply Comfort Cooling Hummility S0/+.15% RH Arc Filtration	Image: Second	Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac	Manual	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp2 ^C C): Summer 22oC Temp Tolerance 4 2oC Ventilation, supply Confrort Cooling Humility Solv/_15% RH Alr_Fituation F9 Supply	- - - Wall and ceiling coatings to to the Clear opening of full leaf I bleed. Temp (² C): Winter 220C Temp Valiation + 20C Ventilation, achaust General & Decitated Alf Pressure Negative Alflow		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation Action ing of leaf and half between 10	Manual Stheff Structural Loading Loading Structural Loading Data / AV / Comms	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Immg Cor, Summer 220C WentBation, supply Comfort Cooling Humdity Solv-15% RH Jumdity Solv-15% RH Min Air Charges	Image: Second	Drainage HDPE Chem Resist Electrical Power Sought Electrical Clamers outlets	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation Action ing of leaf and half between 10	Manual Annual Start Consultant to advise on D00-1200 mm. Doors to have p Structural Loading Guidenent Data / AV / Comms Data / AV / C	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp2 ^C C): Summer 22oC Temp Tolerance 4 2oC Ventilation.supply Confort Cooling Humidity Solv/-15% RN Alt/Effaction PS Supply Min.Alt/Changes JA AC/HR (Occupied)	Image: Second		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation Action ing of leaf and half between 10	Manual	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Iama_CC, Summer Z20C WentBation, supply Comfort Cooling Humdity S04-155% RH Humdity S04-155% RH Min Arc Charges 17 AC/HR (Occupied) Piped Services	Image: Second		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation Action ing of leaf and half between 10	Manual Annual Start Consultant to advise on D00-1200 mm. Doors to have p Structural Loading Guidenent Data / AV / Comms Data / AV / C	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp. ¹² C): Summer 22aC Temp Tolerance 4 2aC Ventilation, supply Comfort Cooling Humility Solv-155% RN Alt_Fitration F9 Supply Min.AtC.charges 17.AC/HR (Cocupied) Piped Services Water	Image: Second		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation Ac	Manual	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Temp Tolerance 1 20C Ventilation, supply Comfort Cooling Hamility S0V-15% RH Arr Filtration P9 Supply Min Arc Charges 17 AC/HR (Occupied) Piped Services	Image: Second		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac imiga of leaf and half between 10	Manual Annual Statutural Consultant to advise on Door 1200 mm. Doors to have p Structural Loading Cultural Data / AV / Comms Cultural Security / Life Safety	Sound Attenuation. Doc Beep holes only, to stop I Vibration Criteria
Architectural Notes NGINEERING HVAC Temp_1 ^C O: Summer 22aC Temp Tolerance 4 2aC Ventilation, supply Comfort Cooling Humidity Solv-155% RH Alt_Fitration F9 Supply Mn.At/Changes TA CA/HR (Occupied) Fiped Services Water Lab CW & HW	Image: Second		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation Ac ing of leaf and half between 10	Manual	Sound Attenuation. Doo
Architectural Notes NGINEERING HVAC Tamag ¹ C(r): Summer Z2oC Term Toferance ± 2oC WentRation.supply WentRation.supply Min.ArChargess 17 AC/HR (Occupied) 17 AC/HR (Occupied) 17 AC/HR (Occupied) Lab CW & HW - Paped Services	Image: Second		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac imiga of leaf and half between 10	Manual Annual Statutural Consultant to advise on Door 1200 mm. Doors to have p Structural Loading Cultural Data / AV / Comms Cultural Security / Life Safety	Sound Attenuation. Doc Beep holes only, to stop I Vibration Criteria
Architectural Notes NGINEERING HVAC Temp[² C): Summer Z2oC Temp Toferance # 2oC Ventilation, supply Comfort Cooling Humility Sol-/15% RH Air Filtration F9 Supply Mn Air Changes TA AC/HR (Occupied) Filed Services Water Lab CW & HW Filed Services Compressed Air Filed Services	Image: Second		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation Ac ing of leaf and half between 10	Manual Annual Statutural Consultant to advise on Door 1200 mm. Doors to have p Structural Loading Cultural Data / AV / Comms Cultural Security / Life Safety	Sound Attenuation. Doc Beep holes only, to stop I Vibration Criteria
Architectural Notes NGINEERING HVAC Tamag ¹ C(r): Summer Z2oC Term Toferance ± 2oC WentRation.supply WentRation.supply Min.ArChargess 17 AC/HR (Occupied) 17 AC/HR (Occupied) 17 AC/HR (Occupied) Lab CW & HW - Paped Services	Image: Second		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac Anima of leaf and half between 10	Manual Shelf Structural Loading Structural Loading Structural Loading Data / AV / Comms Comma Digital Projection Projector Screen Security Systems	Sound Attenuation. Doc Beep holes only, to stop I Vibration Criteria
Architectural Notes NGINEERING HVAC Temp_1°C: Summer Z2oC Temp_1°C: Summer Z2oC Hermitation supply Comfort Cooling Hamility S04/15/5K RH Air Fittation P9 Supply Ref Hermitation P9 Supply Ref Hermitati	Image: Second	Liquid Plastic/Slagaard or Drainage Hople Chem Resist - Electrical Power/Sugaly 2300, trunking Cleaners outlets Euterical Eutrology Cleaners outlets Electrical Eutrology Cleaners outlets Electrical Eutrology Cleaners outlets Electrical Eutrology Electrical Elec	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation Acting ing of leaf and half between 10	Manual Annual Statutural Consultant to advise on Door 1200 mm. Doors to have p Structural Loading Cultural Data / AV / Comms Cultural Security / Life Safety	
Architectural Notes NOINEERING HVAC Temp/2C): Summer 22oC Temp Toterance 4 2oC Ventilation, supply Comfort Cooling Humidity Solv/.15% RH Air Fituation F9 Supply Mm.Ar(Changes TA.C/HR (Occupied) F)Eqd Services Water Lab CV& & HV	Image: Second		Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac ing of leaf and half between 10	Manual Shelf Structural Loading Structural Loading Structural Loading Data / AV / Comms Comma Digital Projection Projector Screen Security Systems	Sound Attenuation. Doc Beep holes only, to stop I Vibration Criteria
Architectural Notes NOINEERING HVAC Temp_Co: Summer Z2CC Temp_Co: Summer A 20C WentBation, useby Comfort Cooling Humidity S04/135% RH Auf Iltration P9 Supply RG Arc (Cocupied) D104/04/R (Occupied) D104/04/R (Occupied) Lab CW & HW Piped Bervices Water Lab CW & HW	Image: Second	Liquid Plastic/Slagaard or Drainage Hople Chem Resist - Electrical Power/Sugaly 2300, trunking Cleaners outlets Euterical Eutrology Cleaners outlets Electrical Eutrology Cleaners outlets Electrical Eutrology Cleaners outlets Electrical Eutrology Electrical Elec	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation A	Manual Manual heref heref heref	
Architectural Notes NOINEERING HVAC Temp_Co: Summer Z2CC Temp_Co: Summer A 20C WentBation, useby Comfort Cooling Humidity S04/135% RH Auf Iltration P9 Supply RG Arc (Cocupied) D104/04/R (Occupied) D104/04/R (Occupied) Lab CW & HW Piped Bervices Water Lab CW & HW	Image: Second	Liquid Plastic/Slagaard or Drainage Hople Chem Resist - Electrical Power/Sugaly 2300, trunking Cleaners outlets Euterical Eutrology Cleaners outlets Electrical Eutrology Cleaners outlets Electrical Eutrology Cleaners outlets Electrical Eutrology Electrical Elec	Operation Manifestations / Film Shelving (non-lab) similar. Sound Attenuation: Ac ing of leaf and half between 10	Manual Shelf Structural Loading Structural Loading Structural Loading Data / AV / Comms Comma Digital Projection Projector Screen Security Systems	

LABORATORY FURNIT	URE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	-				
	-		-		
Other LF Elements	Above Lab Bench		Other Storage Units		
					-
	-		-	-	
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SE	0, PTD included)
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	<u> </u>
LABORATORY EQUIPM	MENT (ASE*) refer to MRC	list			
			* ASE = Architecturally (/Engin	eering) Significant Equipme	nt ** O = Owner C = Cor
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
					-
	-				
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				

ROOM CRITERIA SHEET						
Behavioural Procedu	re - Feeding Cage Sy	stem				
	Desription of Lab and its op	erations			CBS Procedure Roo	
					First Floor	
IENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light	
	11 nsm	tbc	Full 24 hour use	Compliant	Not Acceptable	
Laboratories Only:	Containment	Fumigation	Safety Risks			
	ACDP CL2	No	Biological	-	-	
RCHITECTURAL						
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2	
Sound Attendation	See arch. note below	See arch. note below	Туре	Door + Half Leaf	-	
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-	
Construction	50mm Screed	-	Operation	Swinging	-	
Floor Finish	Vinyl	<u> </u>	Door Material	Timber- Solid Core	-	
Skirting	150mm coved	<u> </u>	Door Finish	HPL		
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Material Frame Finish	Timber Painted	-	
Construction	Blockwork	Type 2 - Not Osed	Locks	Key Lock& Thumb Turn	-	
Finish	Sikaguard Coating		Closers	Closer	-	
Protection	Wall + Corner Guards	-	Vision Pnl	Vistamatic VP	-	
			Protection	Kick Plates	-	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-	
System	Special System	<u> </u>	Other	Light-tight	-	
Finish Features	Special Details		Window Coverines	At Facade	late and	
Height	Washable	÷	Window Coverings Type	Roller Blinds	Internal	
inciBite						
Accessories (non-Lab)	Items	Notes	Light Control Operation	Solar & Grey-out Manual	-	
Accessories (non-Lab)	Items	Notes	Light Control Operation Manifestations / Film	Solar & Grey-out Manual -		
Accessories (non-Lab)	<u>Items</u> - -	Notes	Operation Manifestations / Film	Manual -	-	
Accessories (non-Lab)	<u>Items</u> - - -	Notes	Operation		- - Notes	
Accessories (non-Lab)			Operation Manifestations / Film Shelving (non-lab)	Manual 		
Accessories (non-Lab)	- - - - - - - - - - - - - - - - - - -	be Liquid Plastic/Sikaguard or :	Operation Manifestations / Film Shelving (non-lab) similar. Must ensure external	Manual Shelf - noise does not affect room occ	upants (when used for	
Accessories (non-Lab) Architectural Notes	- - - Wall and ceiling coatings to reverse cycle experiments).	be Liquid Plastic/Sikaguard or Room to be Home office comp	Operation Manifestations / Film Shelving (non-lab) similar. Must ensure external pliant for holding of rodents, 2	Manual 	upants (when used for ion: Acoustic consultant	
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Behavioural Procedure - Feeding Cage System

Lab Benching	Type	Benchtop Material	Depth	Notes	
	-	-	<u> </u>		
	·	- <u>-</u>	<u> </u>		
Other LF Elements	Above Lab Bench		Other Storage Units		
	-	-	-	-	-
	-	-	<u> </u>	-	. <u>-</u>
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD,	PTD included)
	Dbl Sink- Epoxy (int)	Lab CW & HW	Lever Handle (mixer)	Splash Pnl & Dry Rack	-
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	
LABORATORY EQUIPN	1ENT (ASE*) refer to MRC li	st			
			* ASE = Architecturally (/Engine	eering) Significant Equipment	** O = Owner C = Contr
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	IVC Rack	Biodaq	4 units	16 cages	-
	-				
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-