

Dyson Centre for Engineering Design

Communications Meeting

12th March 2015

Agenda

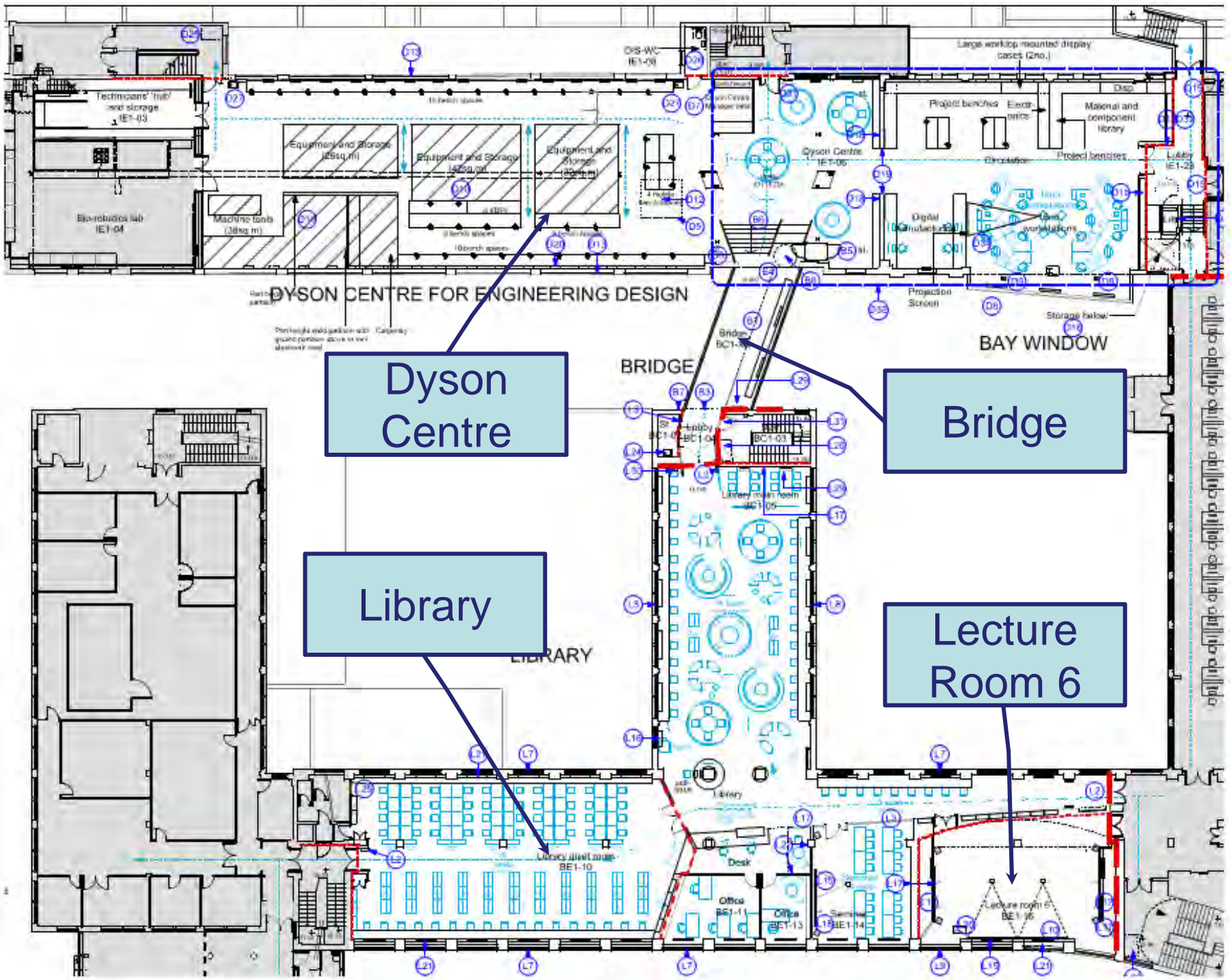
- Introduction
- The Scheme
 - Dyson Centre for Engineering Design
 - Library & Lecture Room 6
- Programme
- Enabling Works
 - Temporary Buildings
 - Baker Building Basement
 - Mill Lane
- Departmental Process and Future Plans
- Questions and Answers

Introduction

“A modern workspace where engineering students can come together outside of the classroom to think, experiment, design, build and exchange ideas”

- Funding from:
 - James Dyson Foundation
 - Higher Education Funding Council for England (HEFCE)
 - Department of Engineering
 - Oatley Family
 - Estates Management
- For completion by start of Michaelmas Term 2015

THE SCHEME



Dyson Centre

Bridge

Library

Lecture Room 6





Dyson Centre for Engineering Design

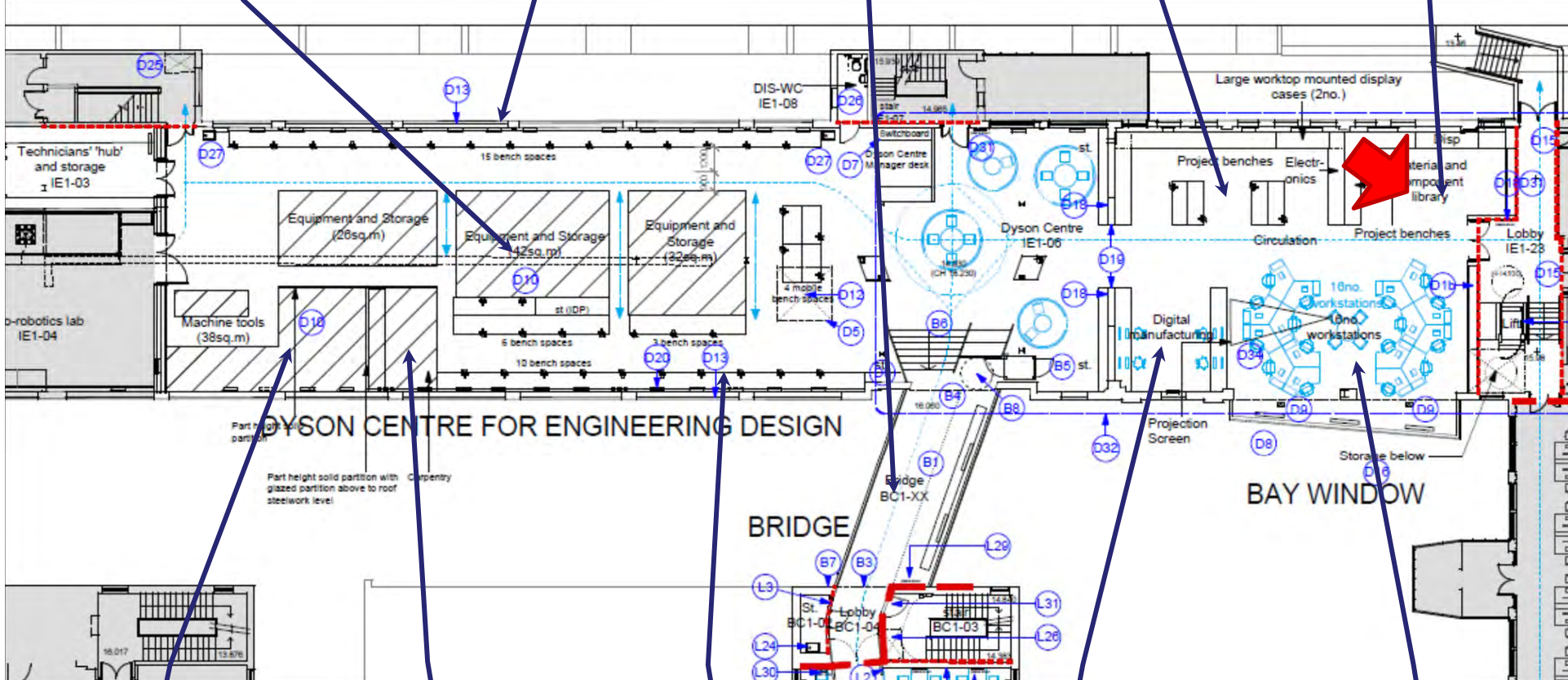
Sheet Metal
Machines/Tools

SDC Benches

Bridge link to
Library

Project Area

Component
Library



Lathes/
Milling m/cs

Carpentry

IDP Benches

Rapid Prototyping/
Digital Manufacturing

CAD
Workstations



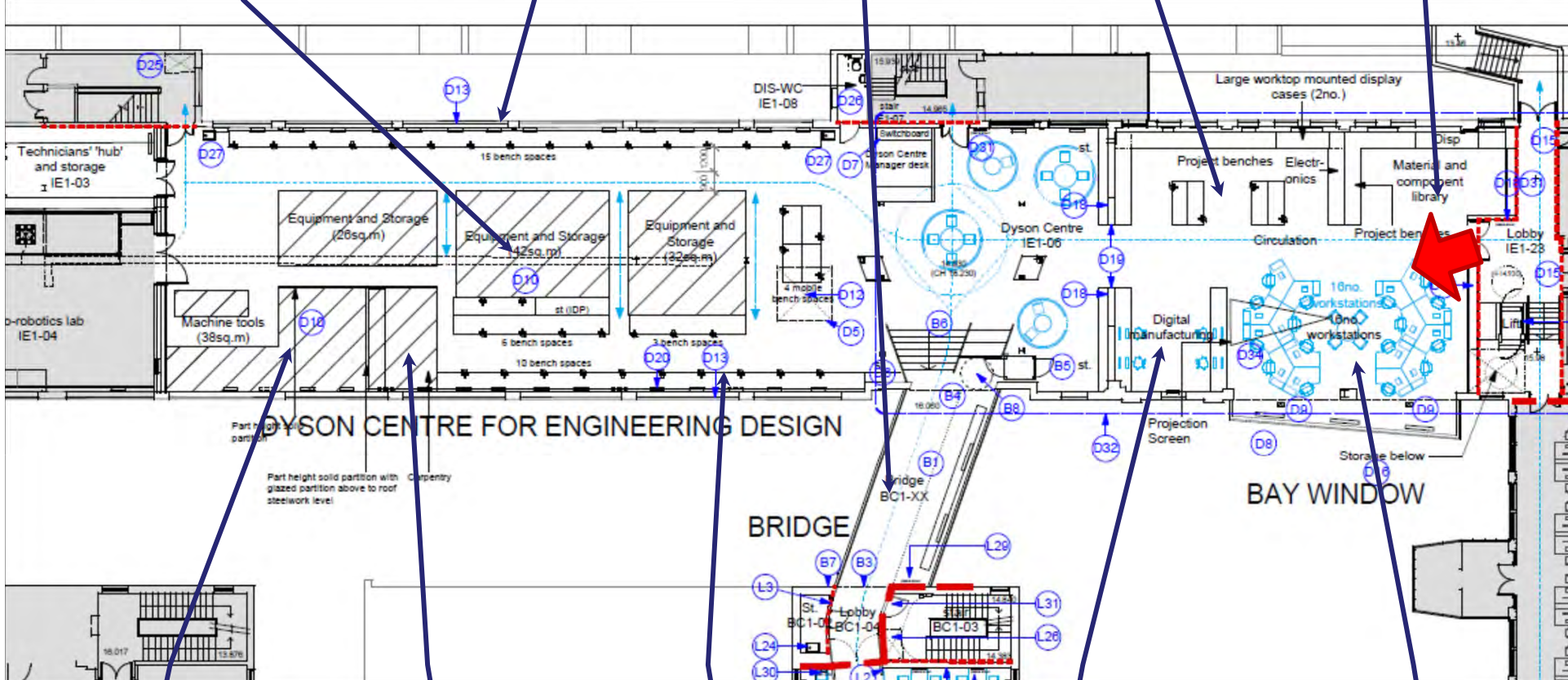
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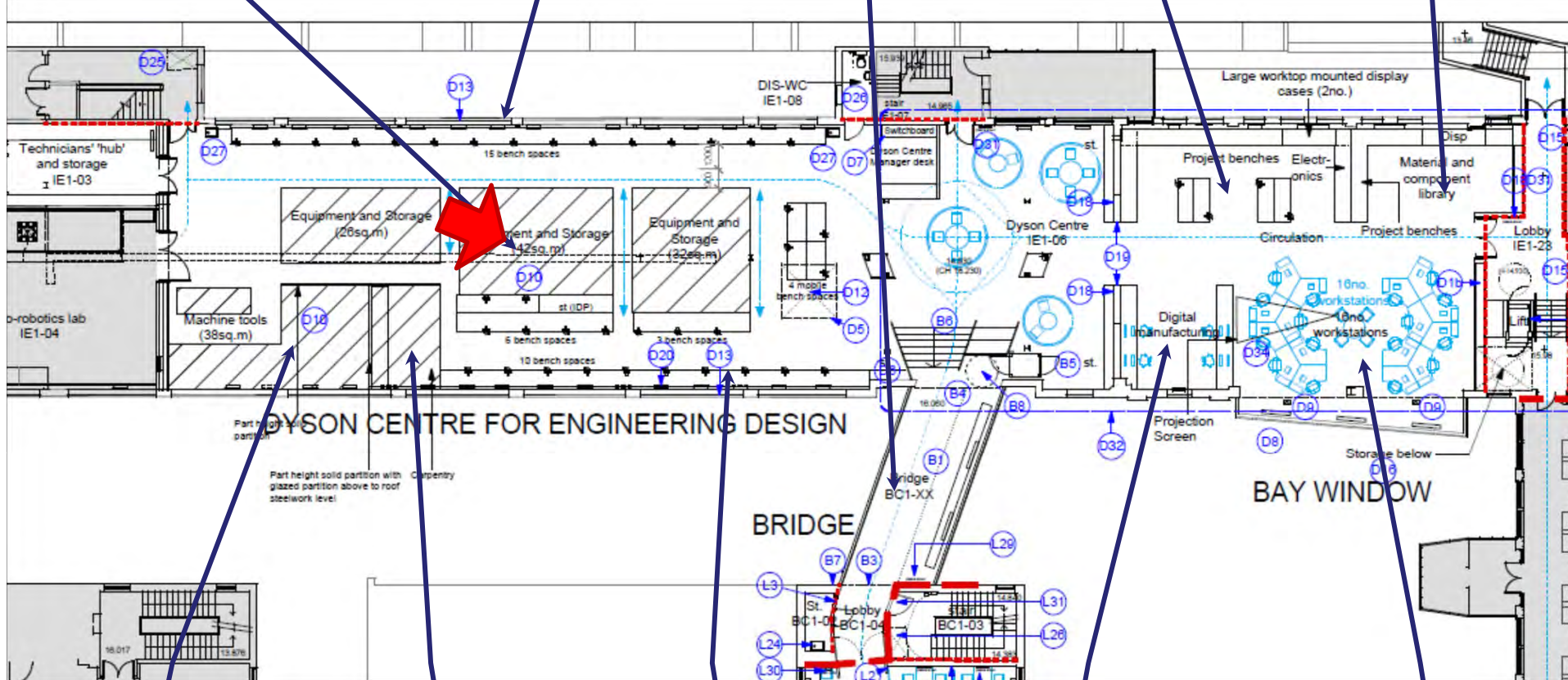
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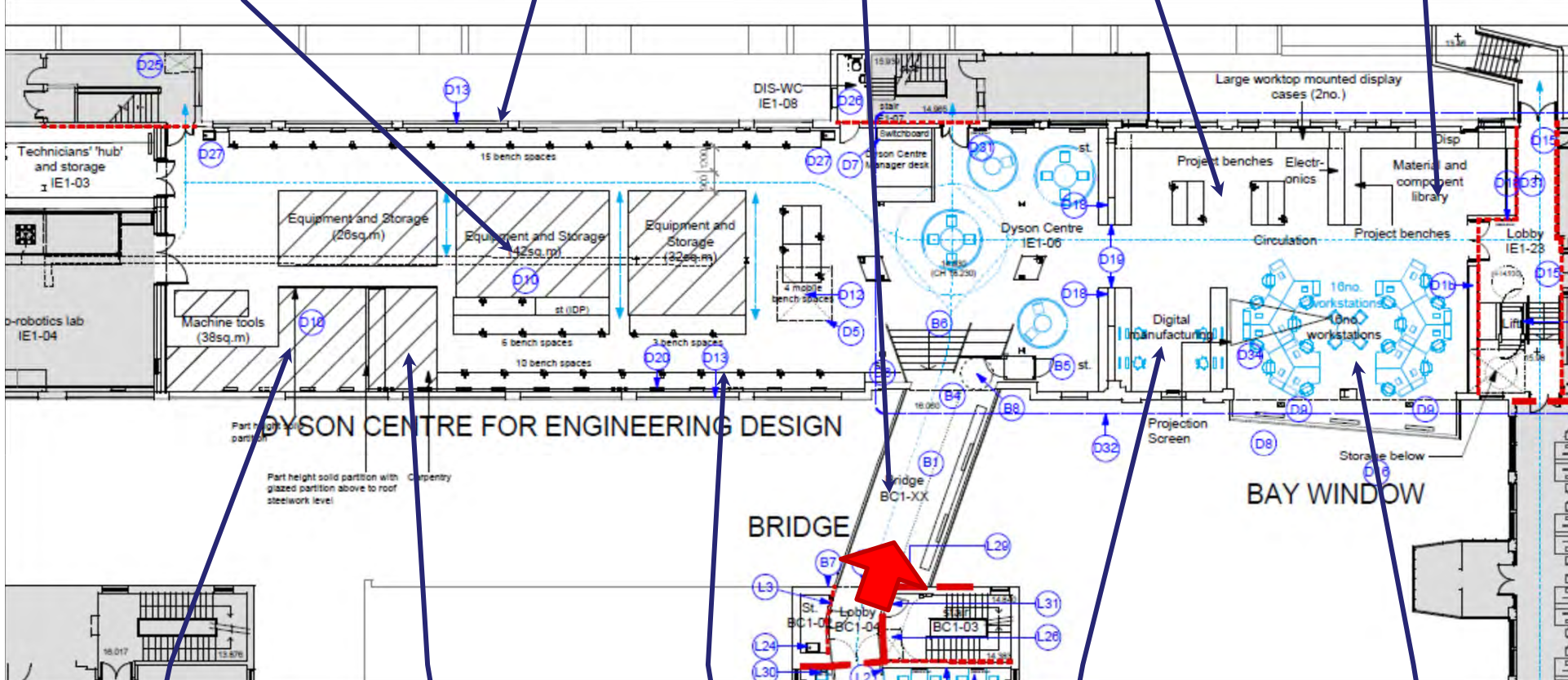
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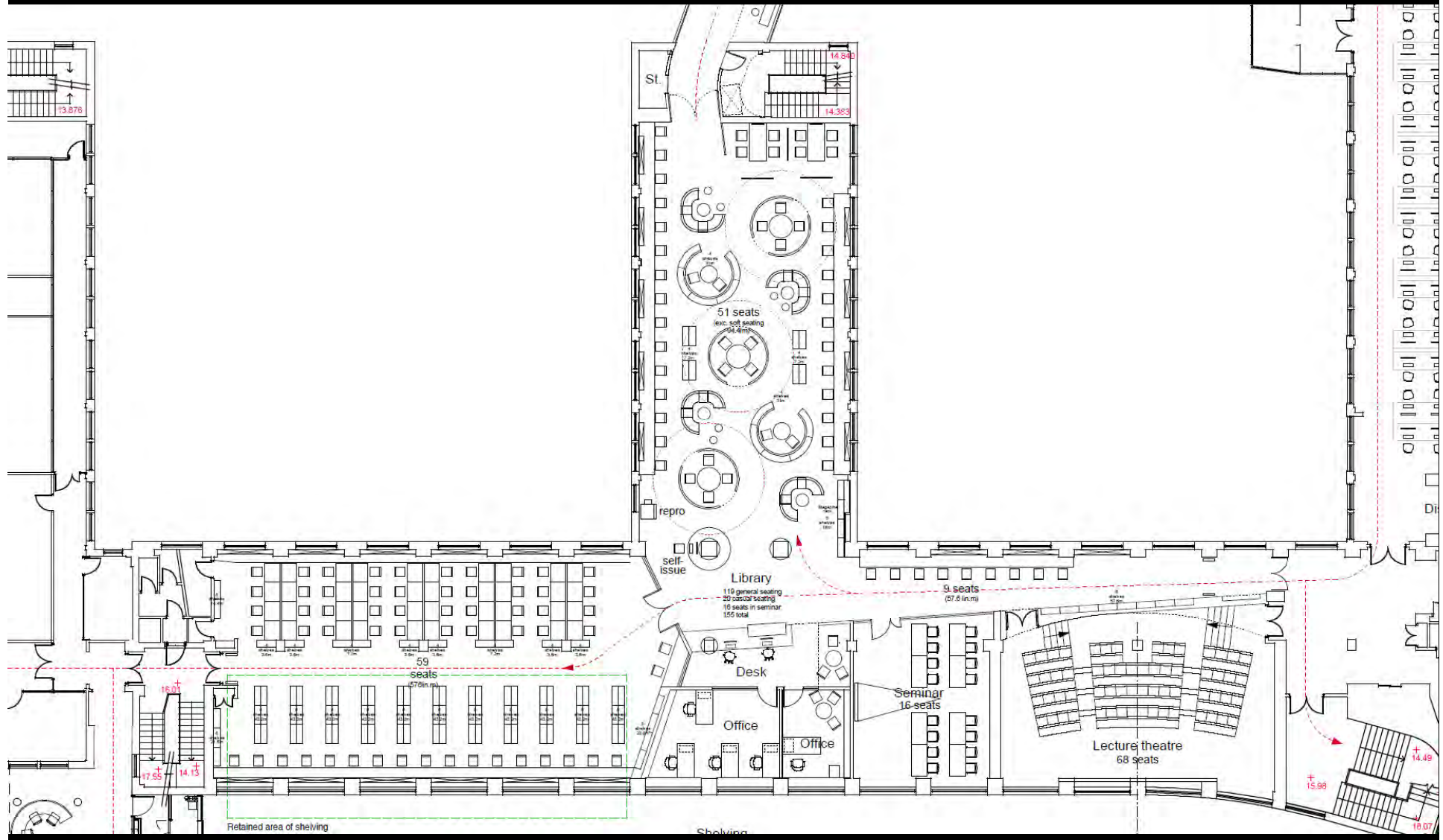
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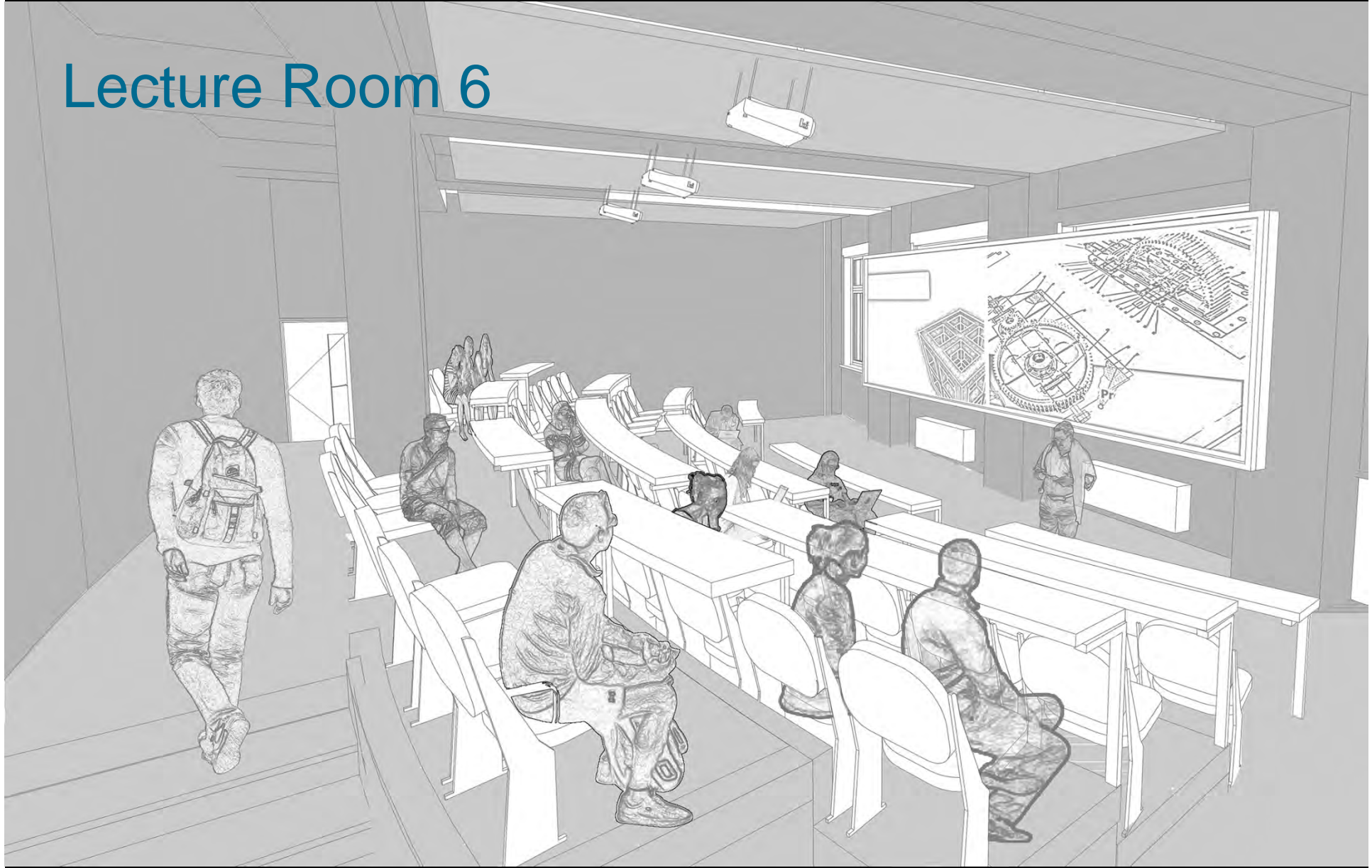
Library & Lecture Room 6

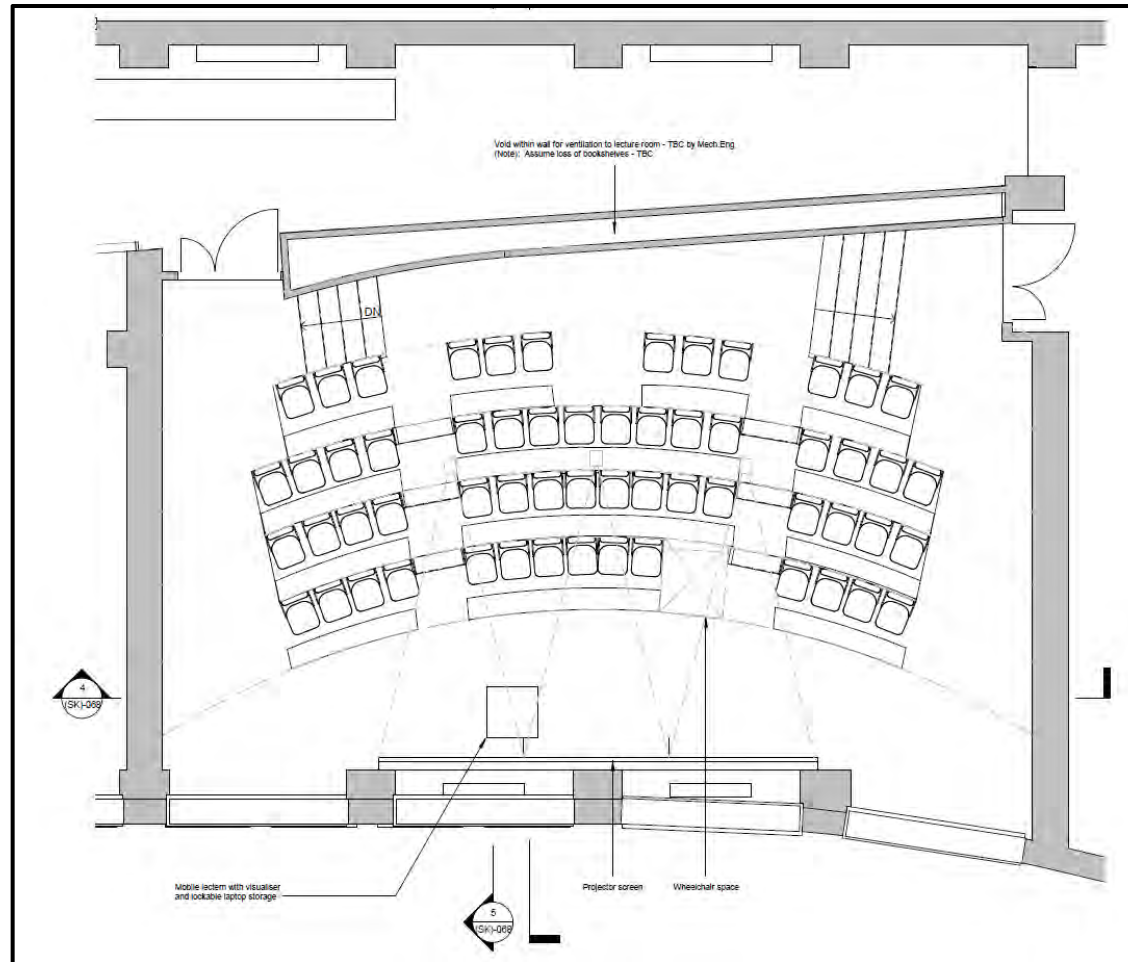


Library Layout

- Access to library from Baker Main Stairs, Baker South Stairs, Baker Central Stairs and across new Bridge Link to Dyson Centre for Engineering Design
- ‘Quiet’ area with main book stock and formal seating at large tables and window seats
- ‘Informal’ area with a more relaxed seating arrangement encouraging group work and collaboration
- New small Seminar Room for library teaching sessions and bookable for teaching small groups

Lecture Room 6





- Premium lecture space for up to 60 people
- New orientation
- Fixed, tiered seating
- Improved ventilation
- 3 projection options

PROGRAMME

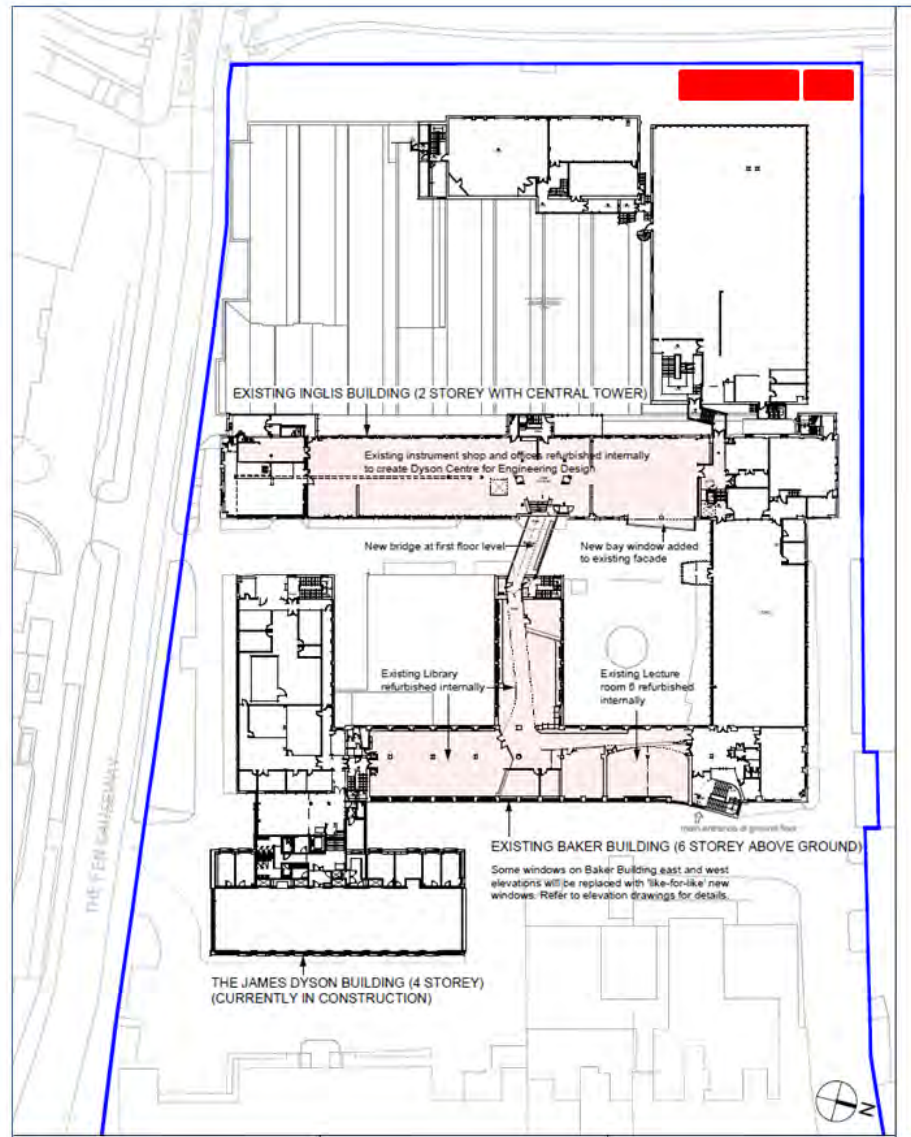
Dyson Centre Outline Programme	2015											2016			
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
	Appoint Contractor for Stage 1	◆													
Reconfigure Workshop & Relocate SPIPs	■														
Vacate Instrument Shop	◆														
Contract Enabling Works		■	■	■											
Procure and Install Portakabins	■	■													
Relocate Workshop Offices & Purchasing		■													
Vacate Workshop Offices		◆													
Appoint Contractor for Stage 2			◆												
Contract Works				■	■	■	■	■							
Construct Archive in Baker Basement		■	■	■	■										
Relocate Library and Staff				■											
Vacate Library				◆											
CUED Completion and Occupation								■							
Dyson Centre, Library and Lecture Room 6 Complete								◆							
Dyson Building Complete										◆					
Progressive Relocation of Displaced Staff											■	■	■	■	

Key Dates (TBC)

- Workshops Vacated 25 Mar 2015
- Portakabins Available for Use 15 Apr 2015
- Workshop Offices Vacated 22 Apr 2015
- Basement Store Completed 29 May 2015
- Library Vacated 15 Jun 2015
- Building work Completed 25 Sep 2015
- Library and Dyson Centre Occupied 06 Oct 2015
- Dyson Building Completed Nov 2015
- Portakabins Vacated Mar 2016

ENABLING WORKS

Temporary Buildings

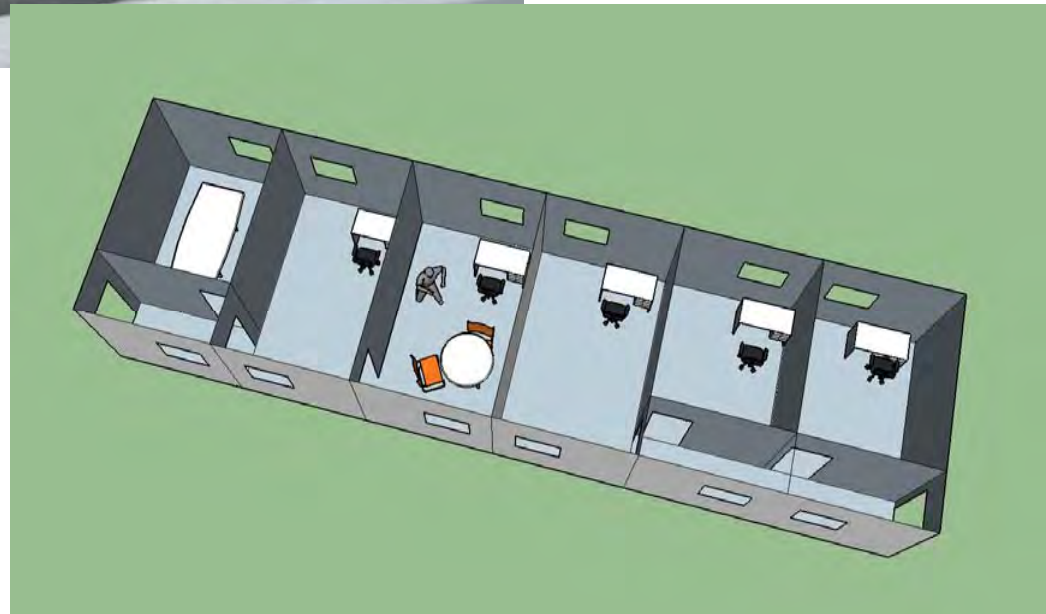


- Located in NW corner of site
- One single-storey block
- One two-storey block

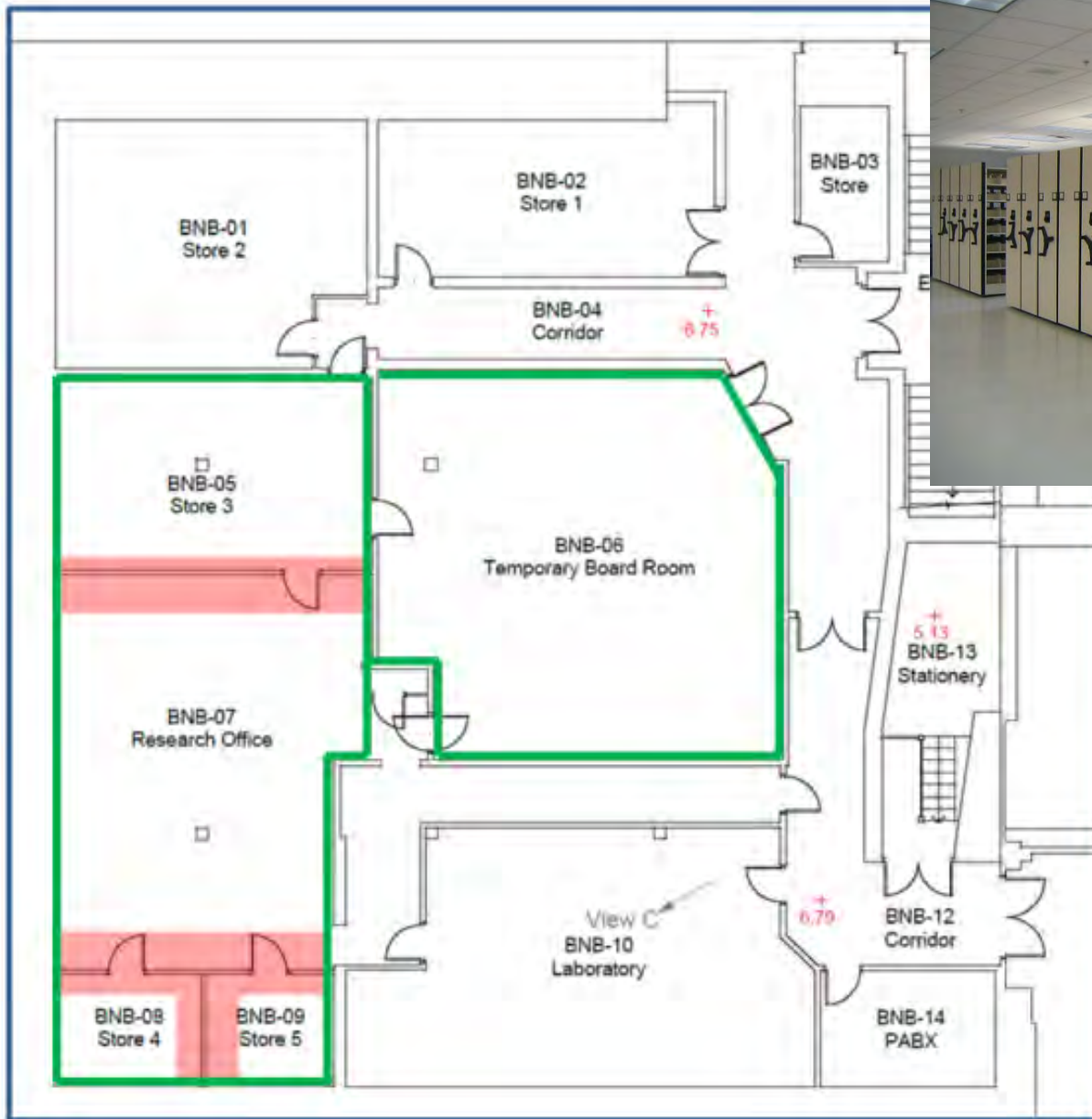


- Modular construction
- Office partitions

- Insulated
- Electric radiators
- Carpets
- Automatic lighting

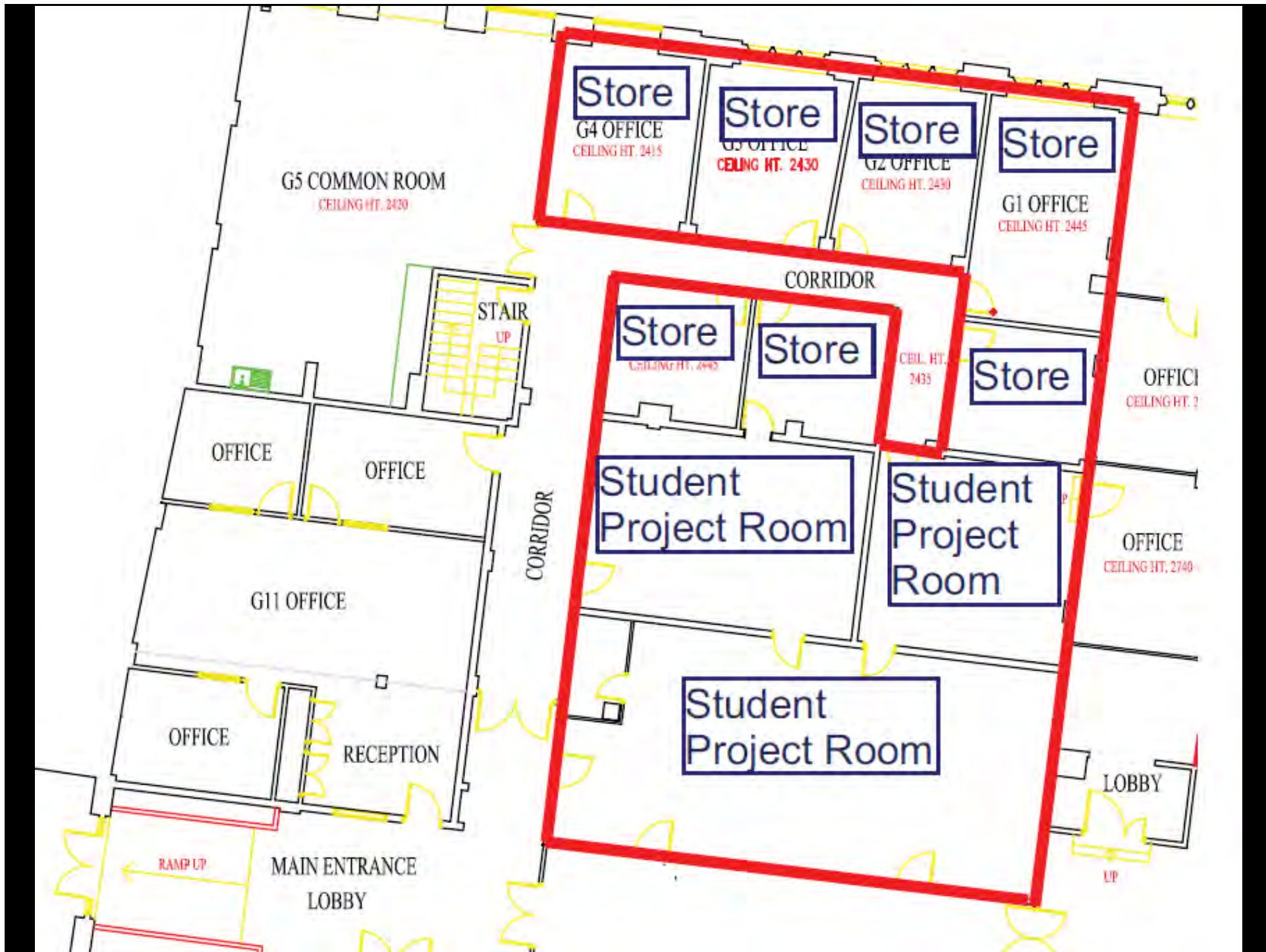


Baker Building Basement



- Two large store rooms
- Rolling racks and fixed shelving

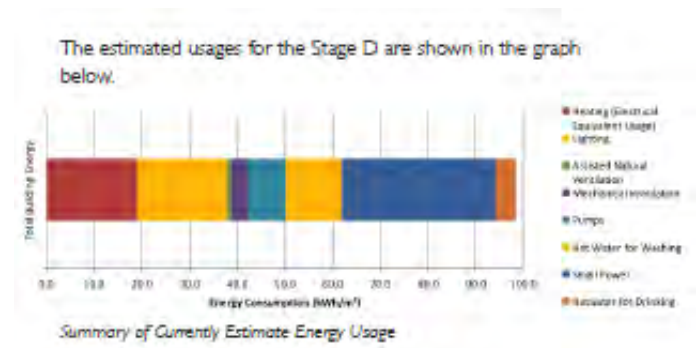
Mill Lane



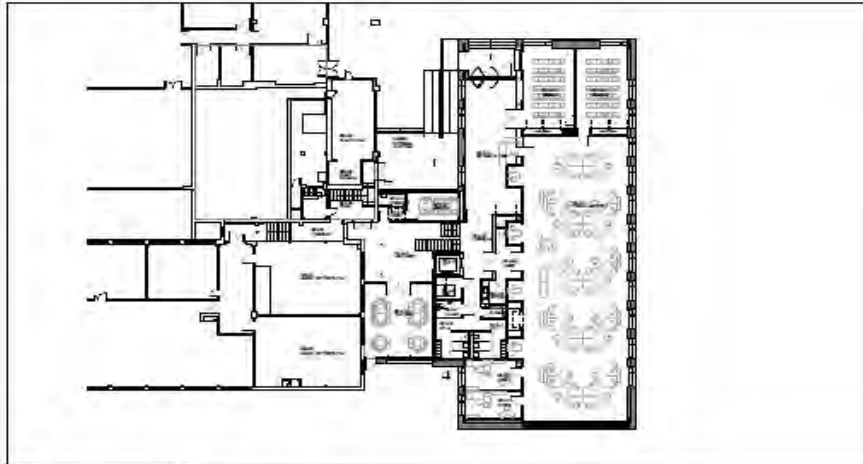
DEPARTMENTAL PROCESS AND FUTURE PLANS

James Dyson Building – Design Objectives

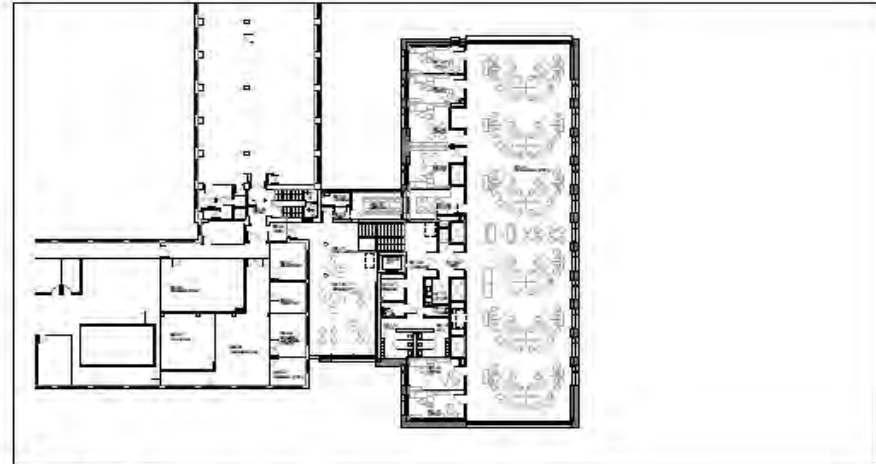
- Cellular and open plan offices
- Seminar and meeting rooms
- Link with adjacent laboratories, space optimisation, utilisation
- Sustainability, energy target 100kWh/m² per annum
- Natural ventilation strategy
- Design life, 100 years for structure
- Project budget £13.2M



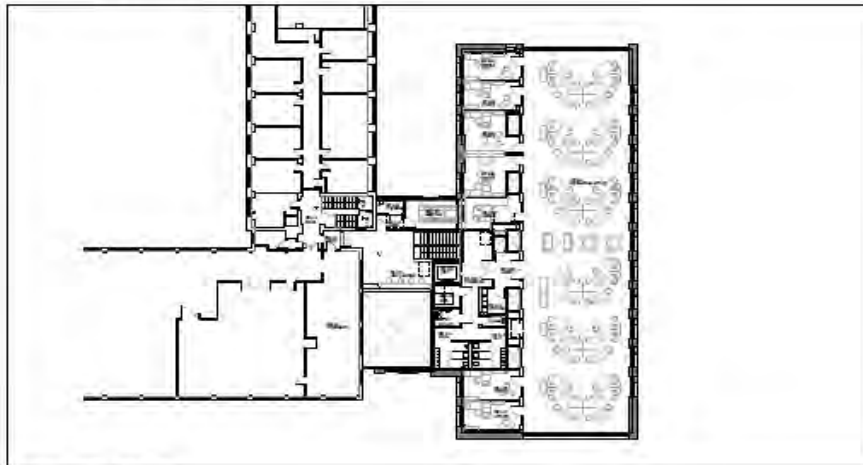
James Dyson Building – floor plans



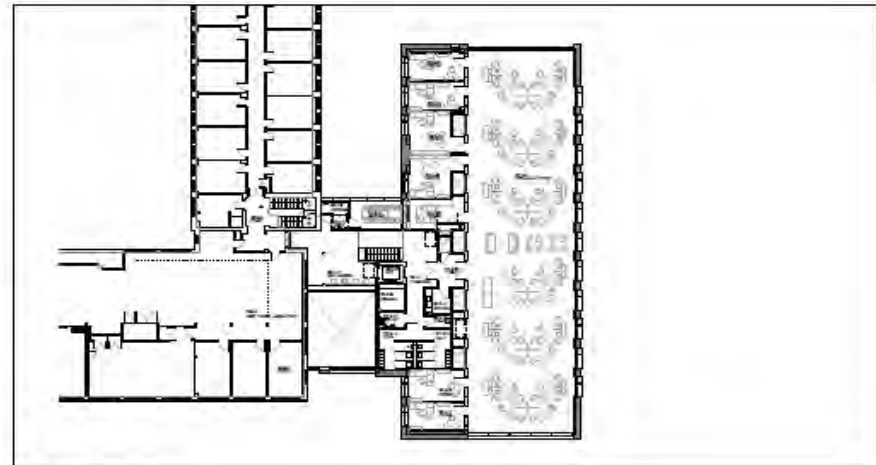
GROUND FLOOR PLAN



FIRST FLOOR PLAN



SECOND FLOOR PLAN

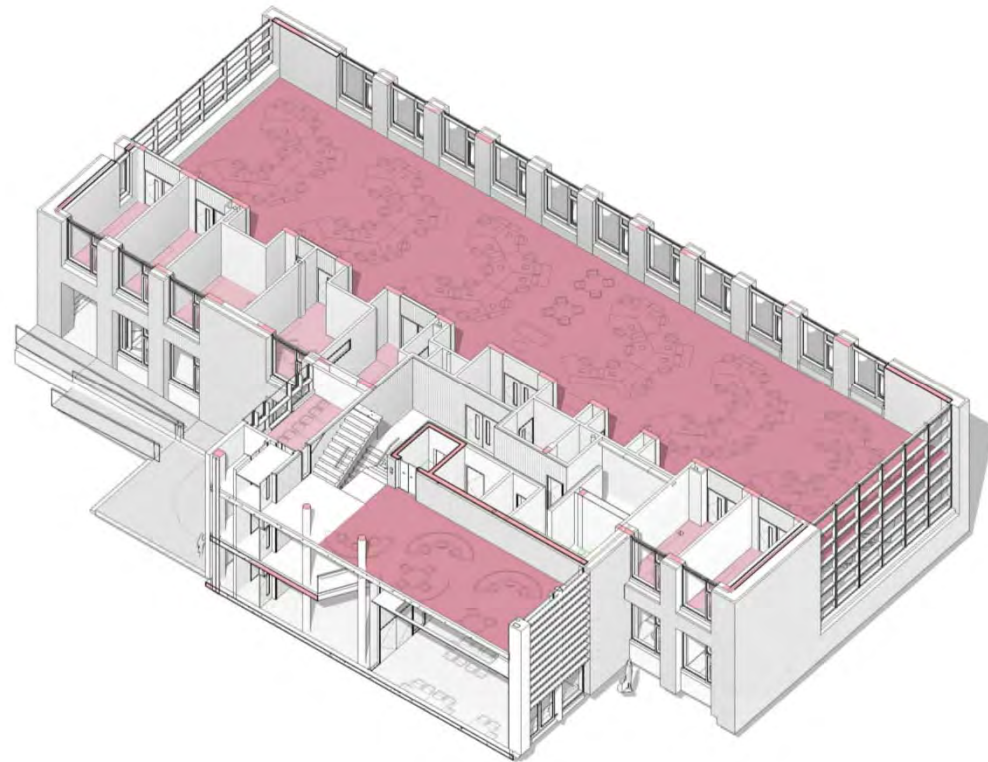


THIRD FLOOR PLAN

Typical floor plan configuration

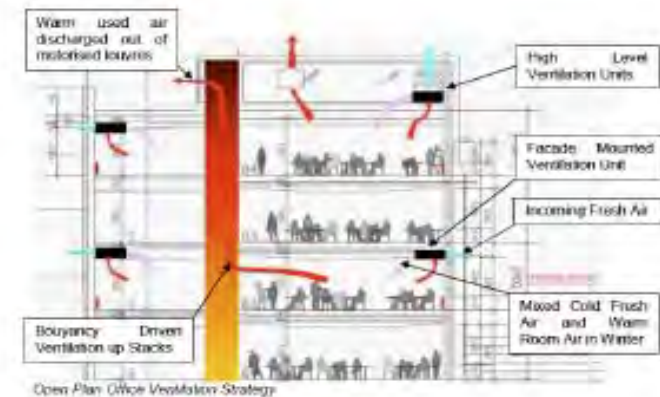
1st Floor

- Cellular offices (7)
- Open plan office (1)
- Central core area
- Meeting room(s)
- Breakout space
- Vertical transportation
- 4 storeys, 2,900m²
- 246 w/s, 21 offices



Links with Engineering's research activity

- Substructure (pile) sensing
- Instrumentation of superstructure (frame, thermal mass)
- Natural ventilation, breathing buildings
- Re-cycled steel
- Low carbon blocks
- Energy dashboard
- 'Living Lab' environment



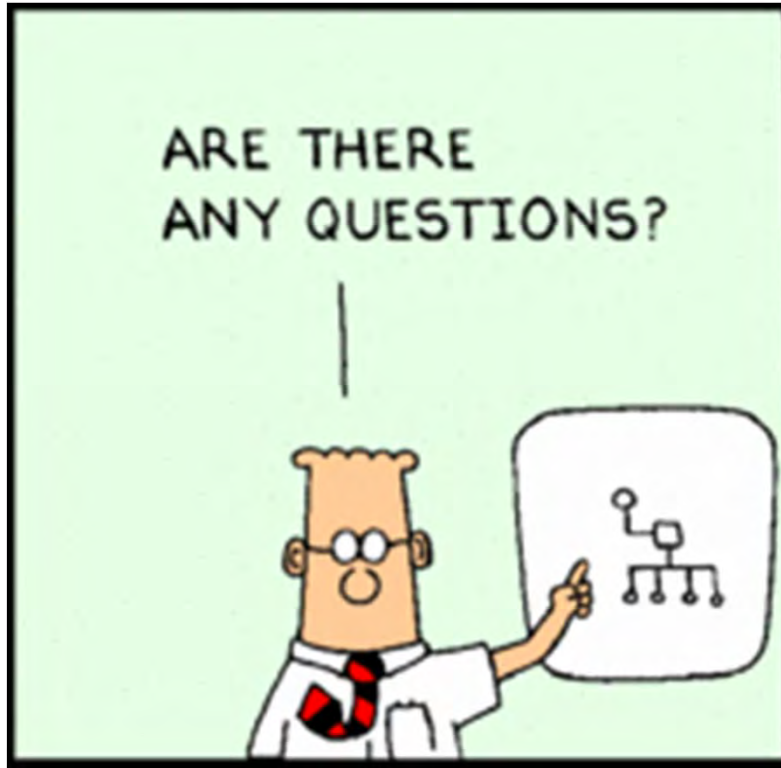
James Dyson Building – Occupation

Floor	Group	Release
Ground	Superconductivity	BSB
	Vehicle Dynamics	BEO
First	Laing O'Rourke Research Group	IN1
	Centre for Smart Infrastructure & Construction	IEG
	Future Infrastructure & Built Environment	IEG
Second	Fluids Group	BS3
	Acoustics	BS2
Third	Computational Biological Learning	-
	Regius Professor Group	BN4
	Low Carbon Material Processing	ISG/ISO
	Sustainable Development Group	IN3

Assignment of released space

- Review of released space/group co-location
- Assignment to activities that have been displaced
- Reinstatement of Meeting Rooms and laboratories
- Removal of temporary building and reinstatement of car parking
- FM and Dep HoD (Teaching) to review and assign released space





www.dilbert.com scottadams@aol.com



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Questions?

Contacts

- David Green
- Charis Fairhead
- Paul Heffernan

dsg1000@cam.ac.uk

clf46@cam.ac.uk

pbh24@cam.ac.uk