

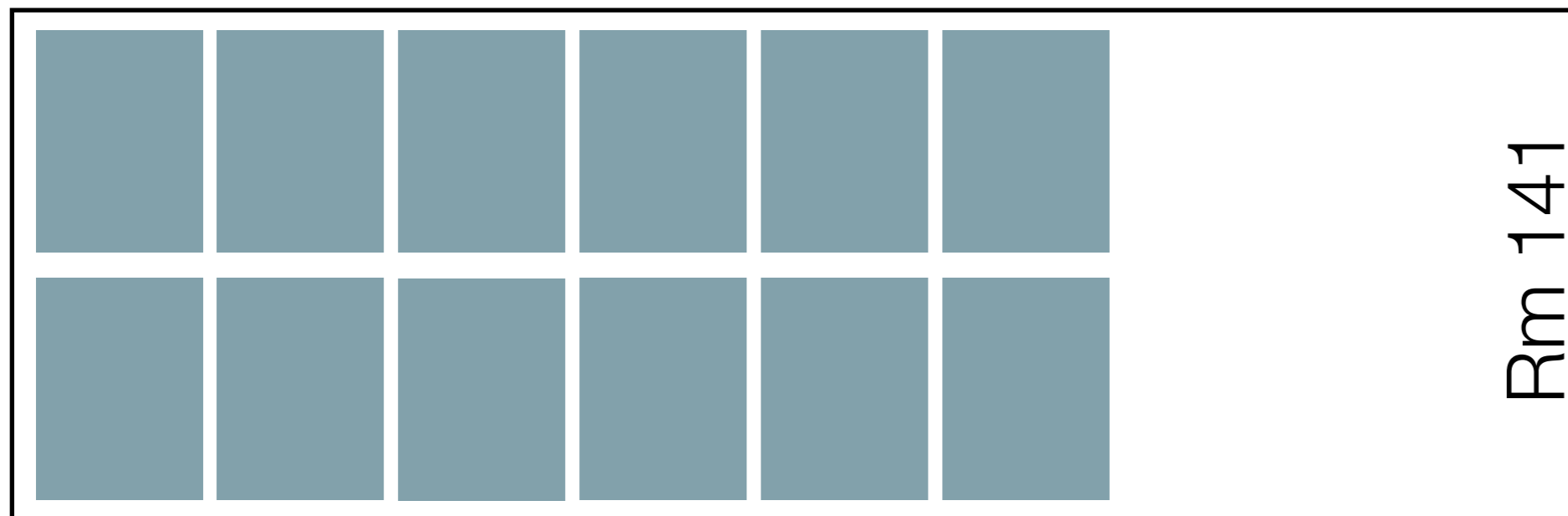
Glasgow Data Centre Update

Gareth Roy
HEPSYSMAN 16/1/2018

Glasgow's Current Setup (ScotGrid)

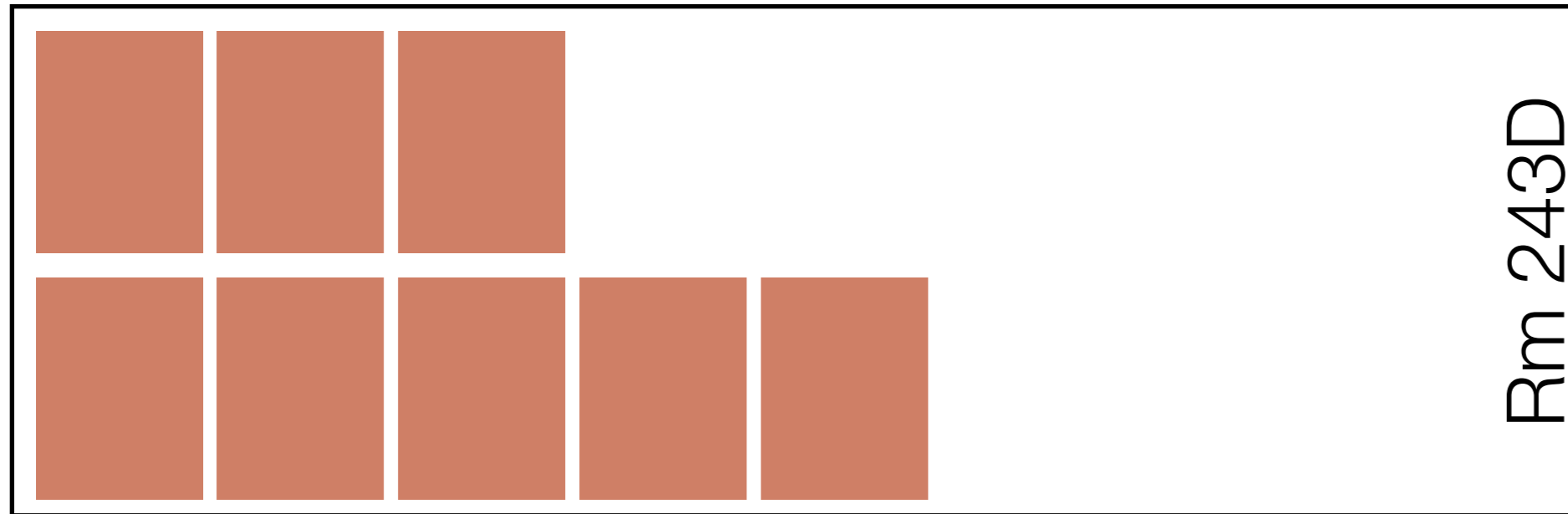


Level 2



Level 1

Glasgow's Current Setup (School)



Rm 243D

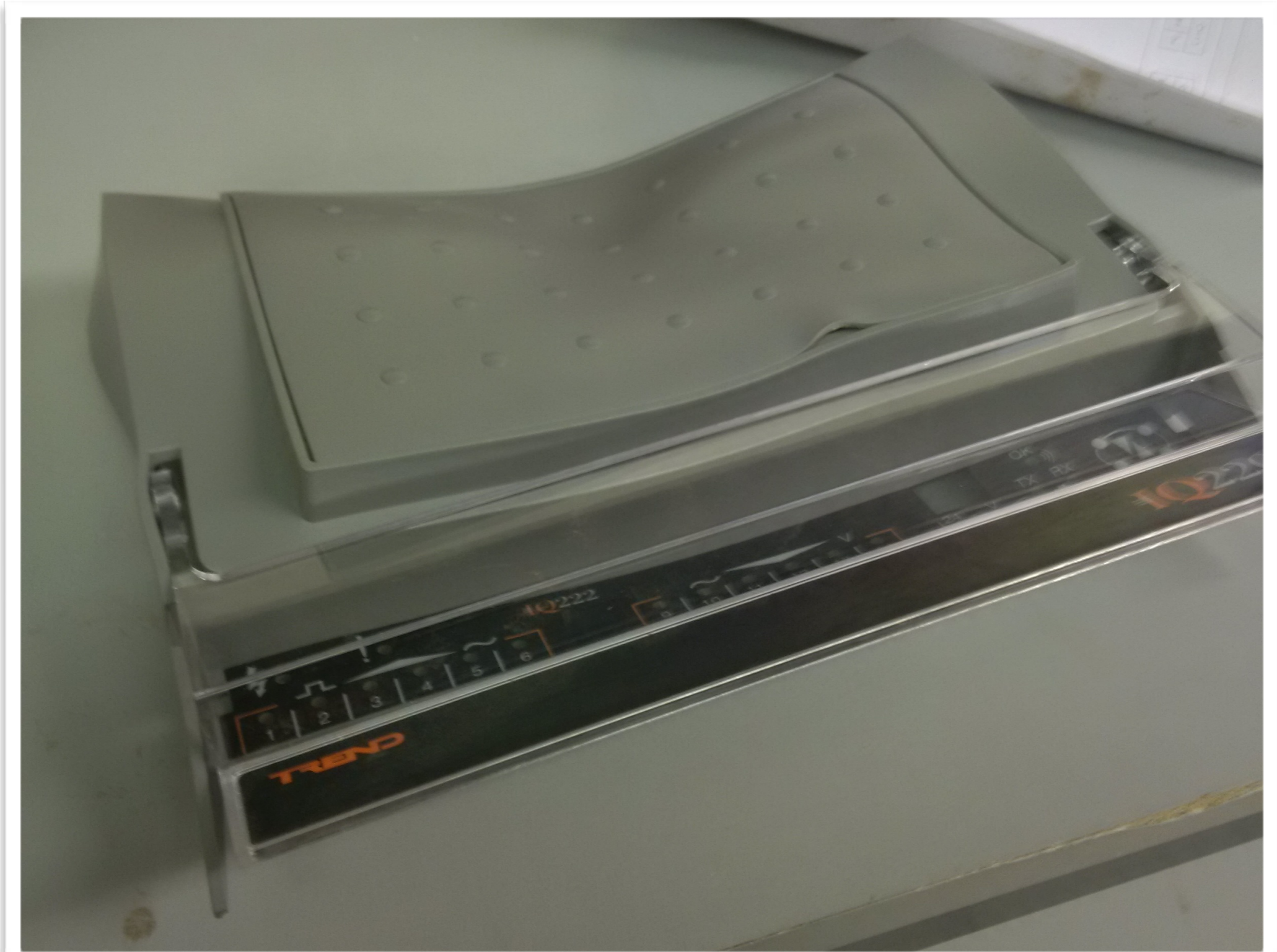
Level 2



Rm 141

Level 1

Infrastructure - Fire



Infrastructure - Surprises



Infrastructure - Power



Infrastructure - Power

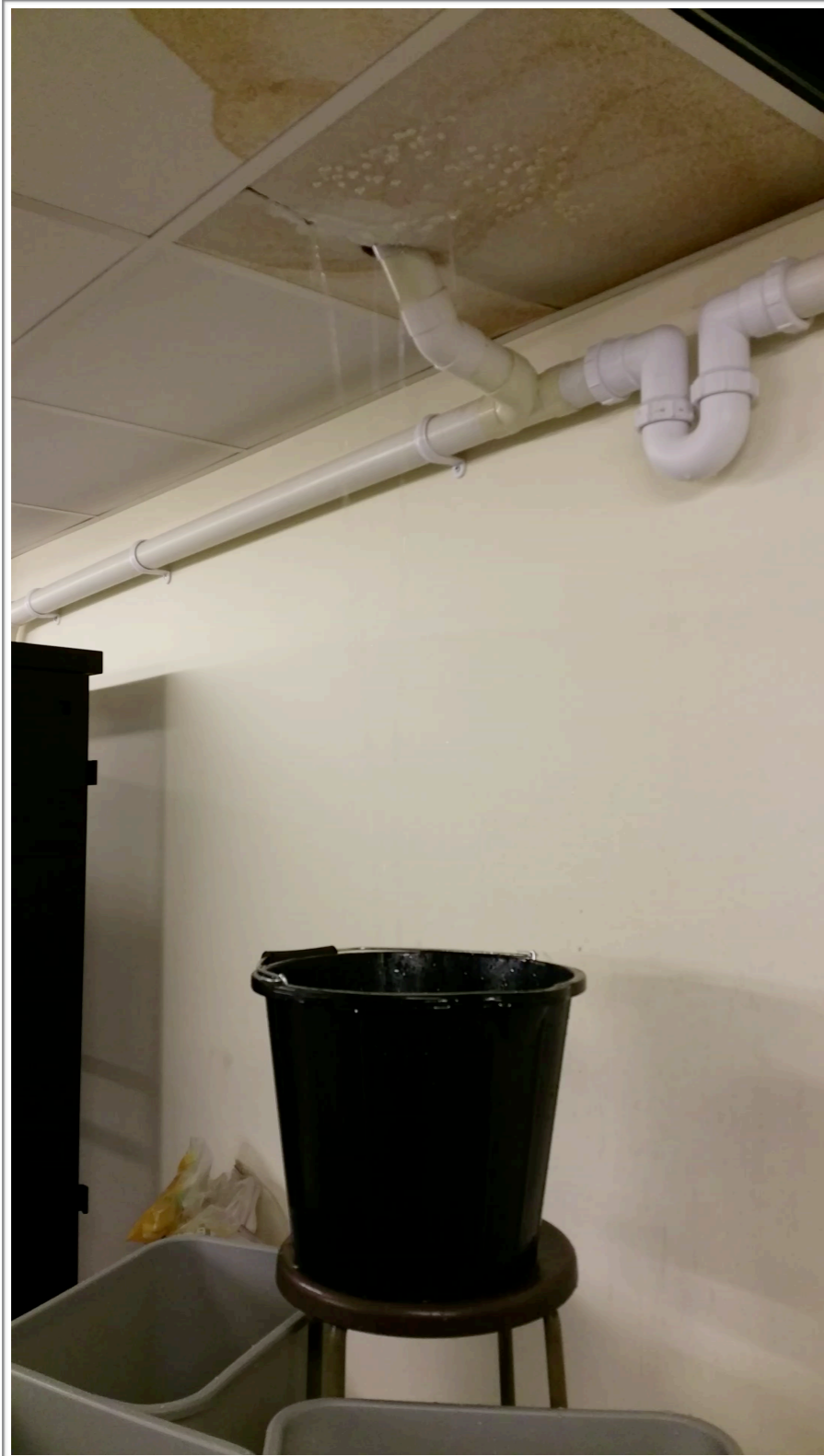


Infrastructure - Power



- Upgrades to Electrical & Protection infrastructure in 141 and 243D. Installation of:
 - New BMS
 - New Electrical Contractor
 - New Thermal cut-out & monitoring
- Triggered October to drop power when AC failed.

Infrastructure - Fire Water... Pestilence?



- Heavy rain, leading to backed up pipes caused water to push up via Waste pipe
- This entered into the server room in a number of ways



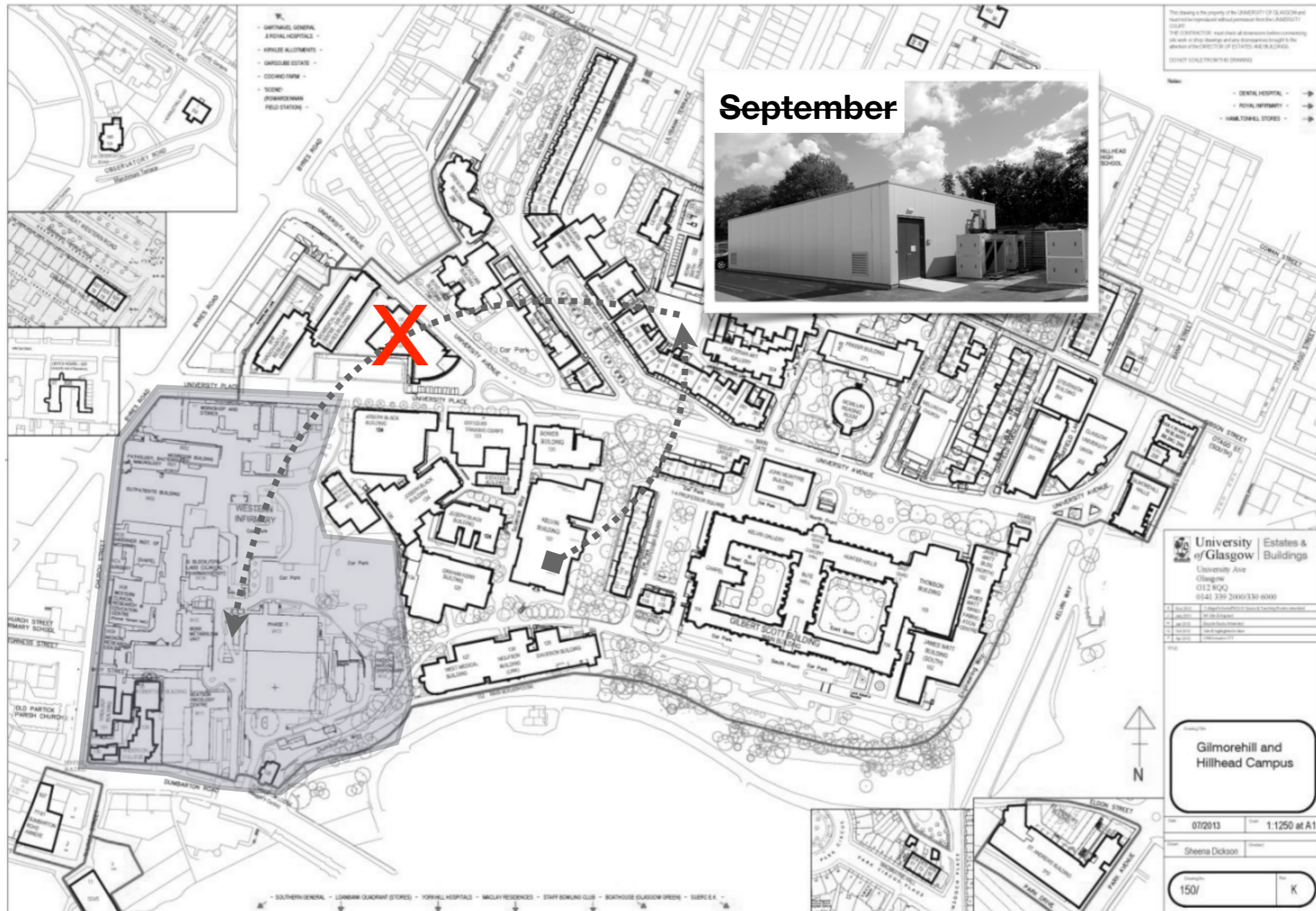
By the end of the week....



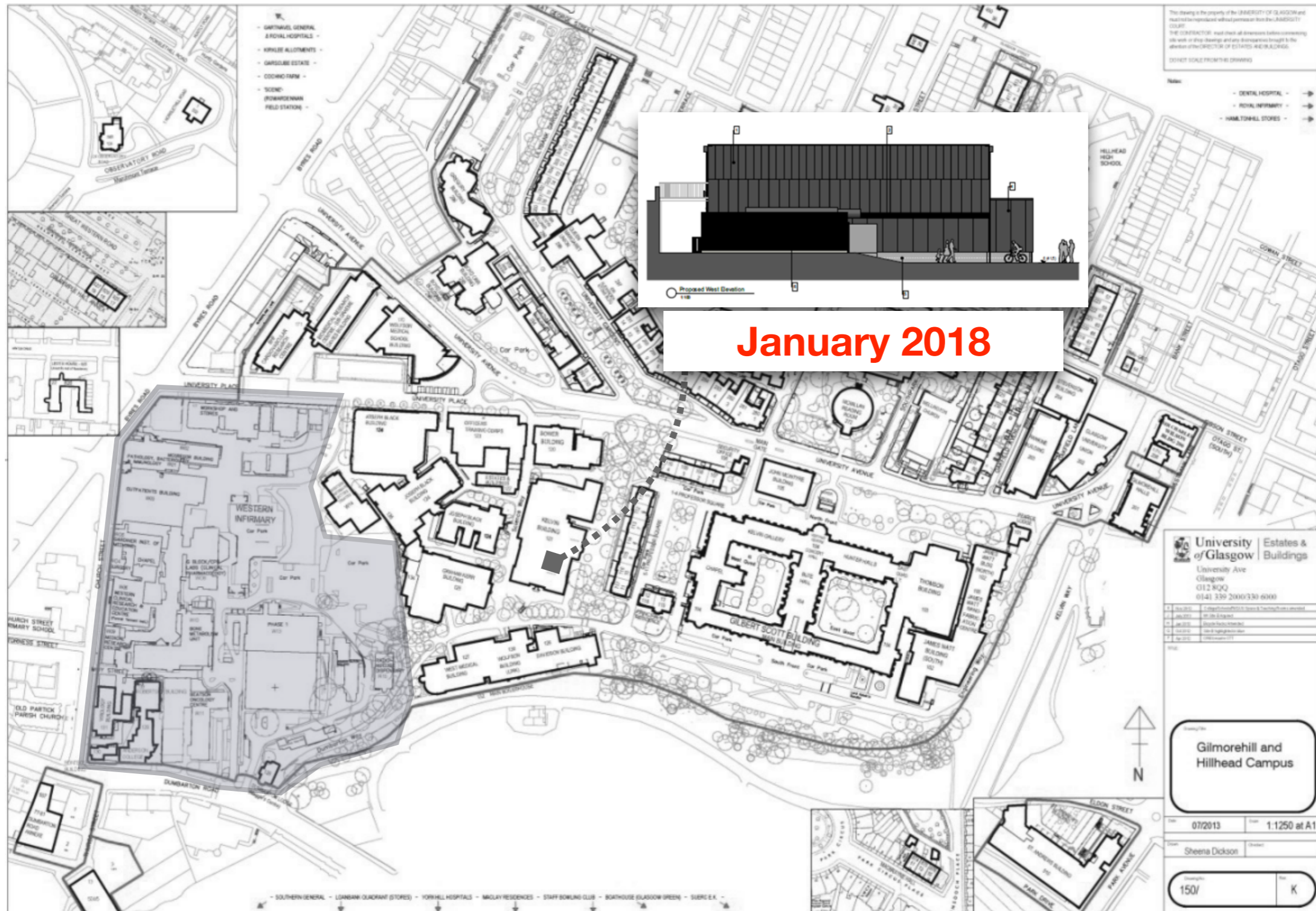
- Due to E&B's rapid response the following happened.

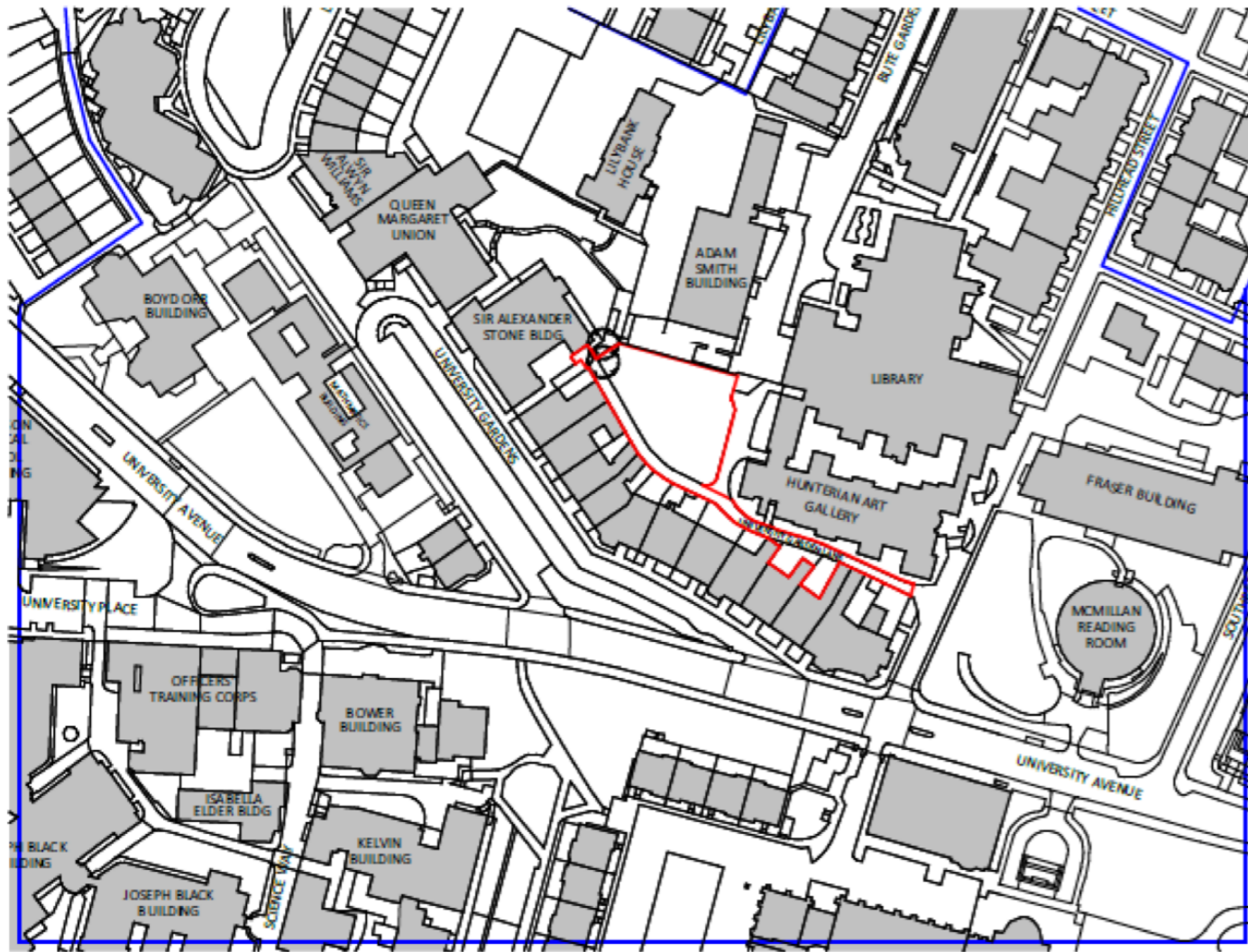


Kelvin Data Annexe

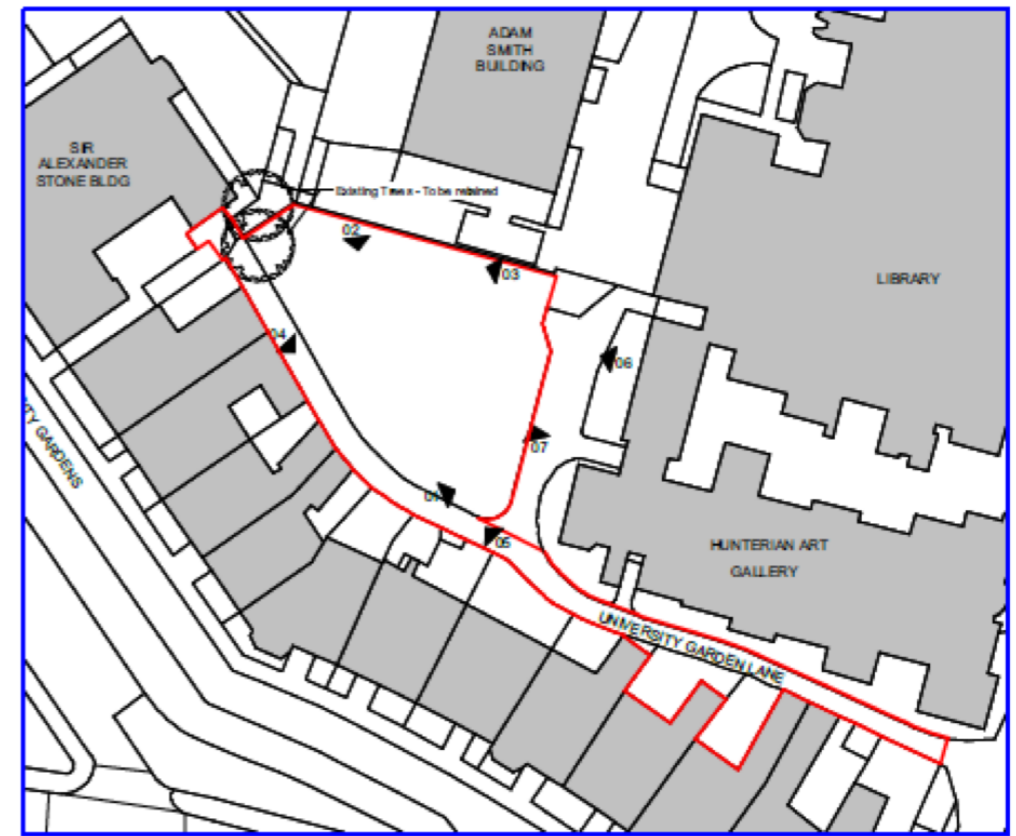


Kelvin Data Annexe





Site Location Plan
1:1000



Site Plan and Site Views
1:500



Application site
Other land controlled by the applicant
(Expands beyond drawing)



View 01



View 04



View 05



View 06

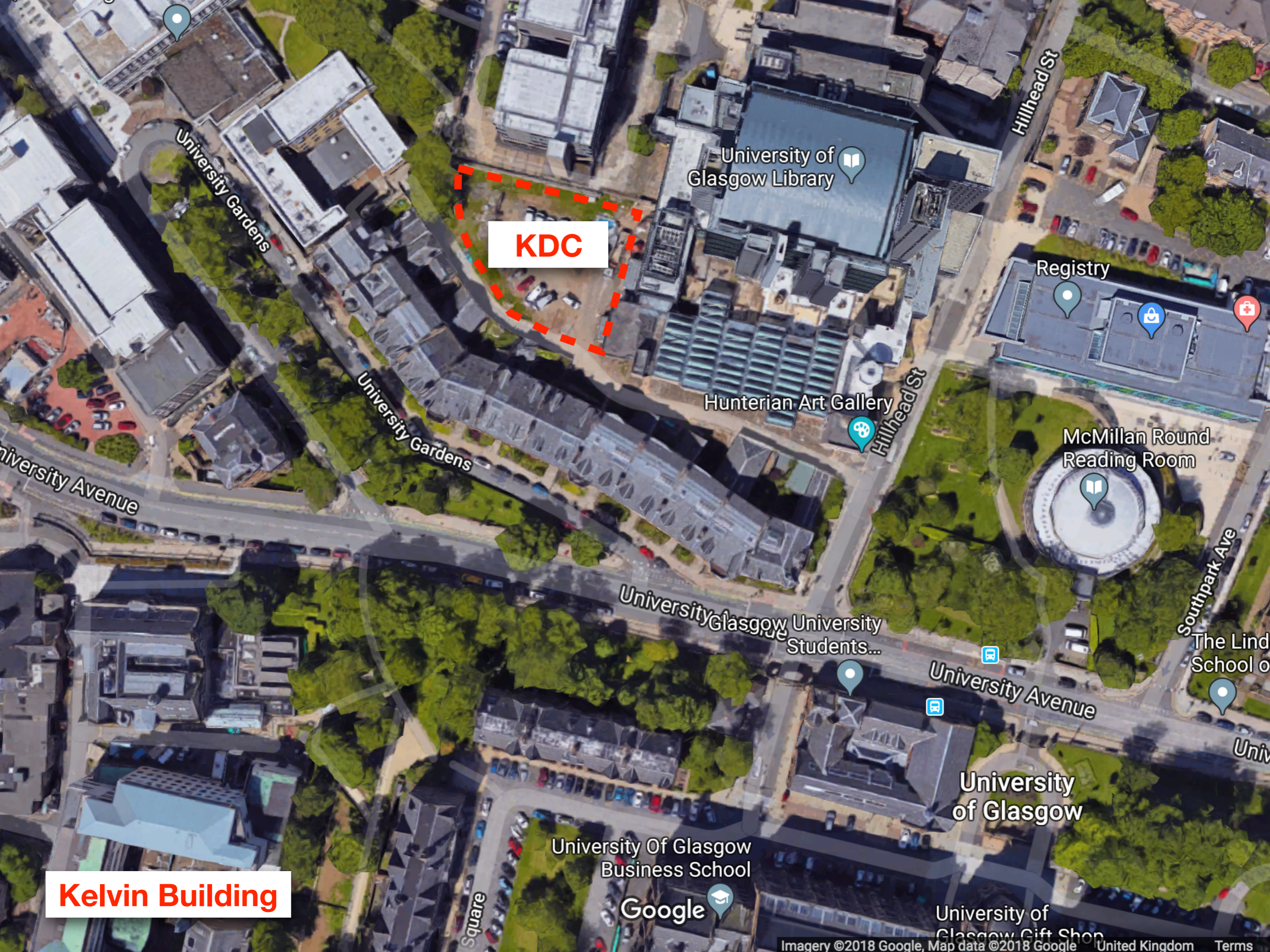


View 02



View 03

View 07



KDC

University of Glasgow Library

Hunterian Art Gallery

Registry

McMillan Round Reading Room

University of Glasgow Students...

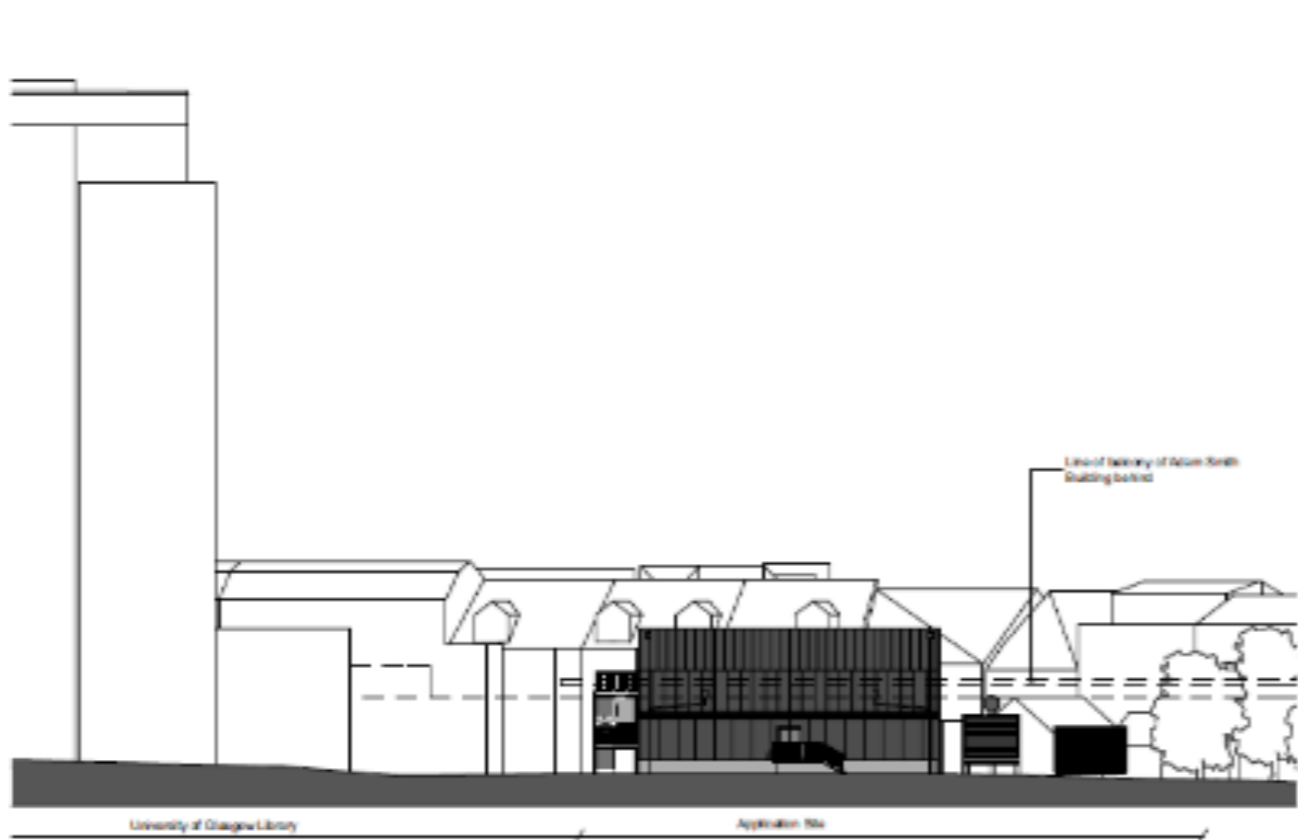
University of Glasgow

University Of Glasgow Business School

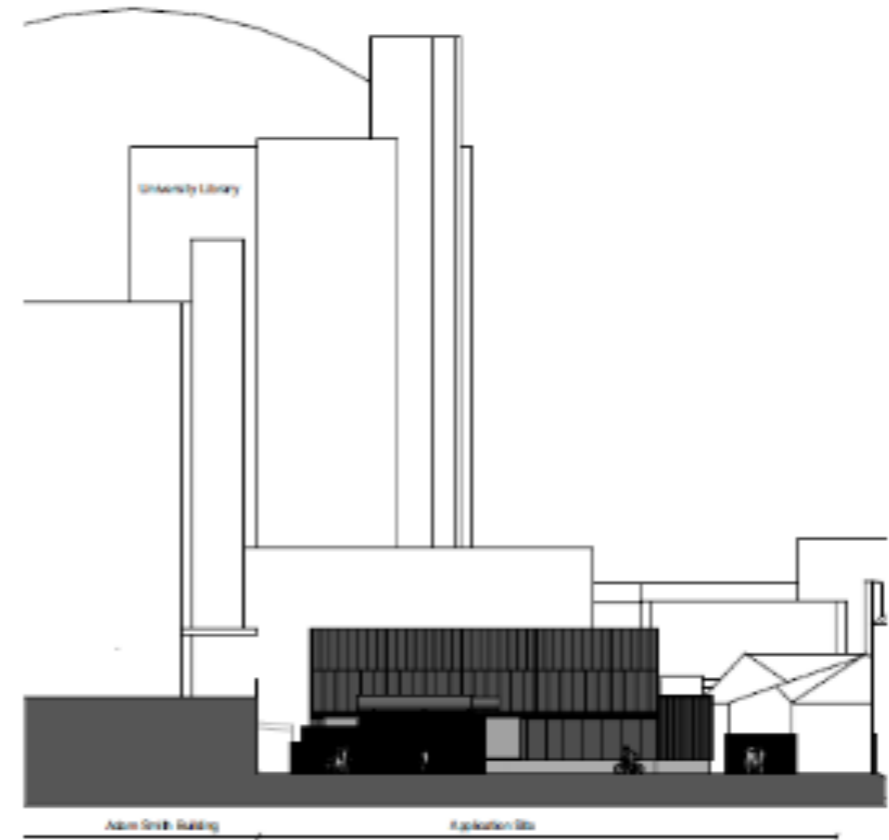
University of Glasgow Gift Shop

Kelvin Building

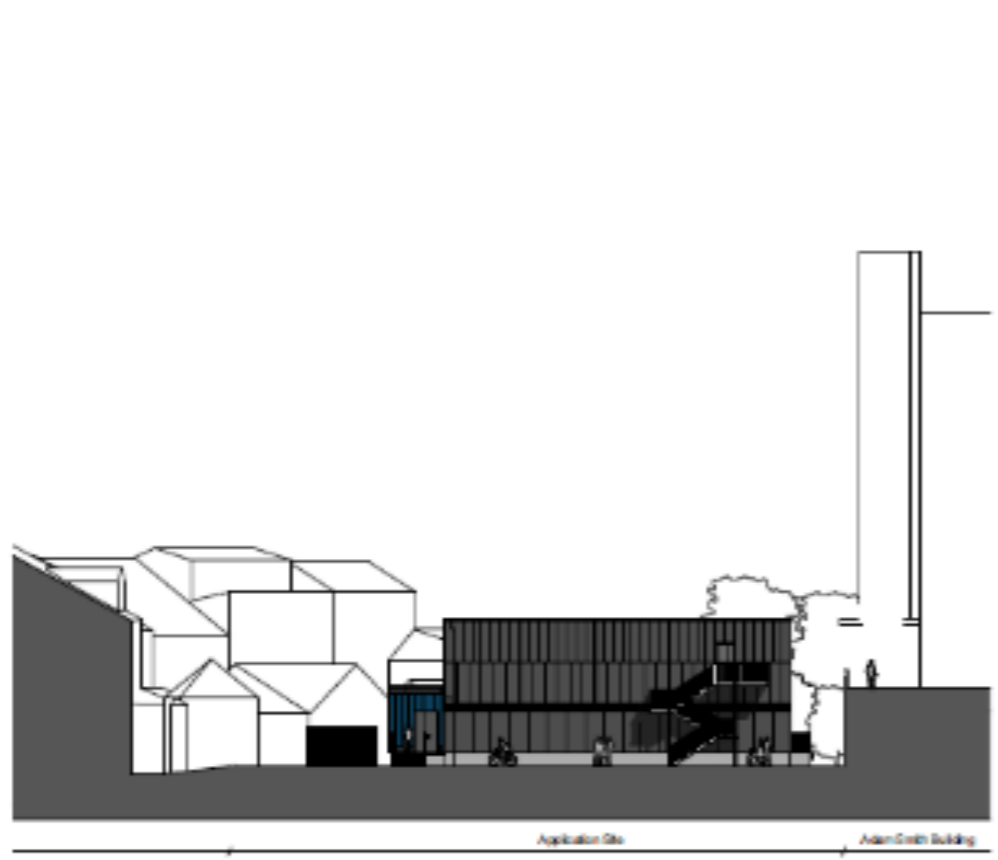
Google



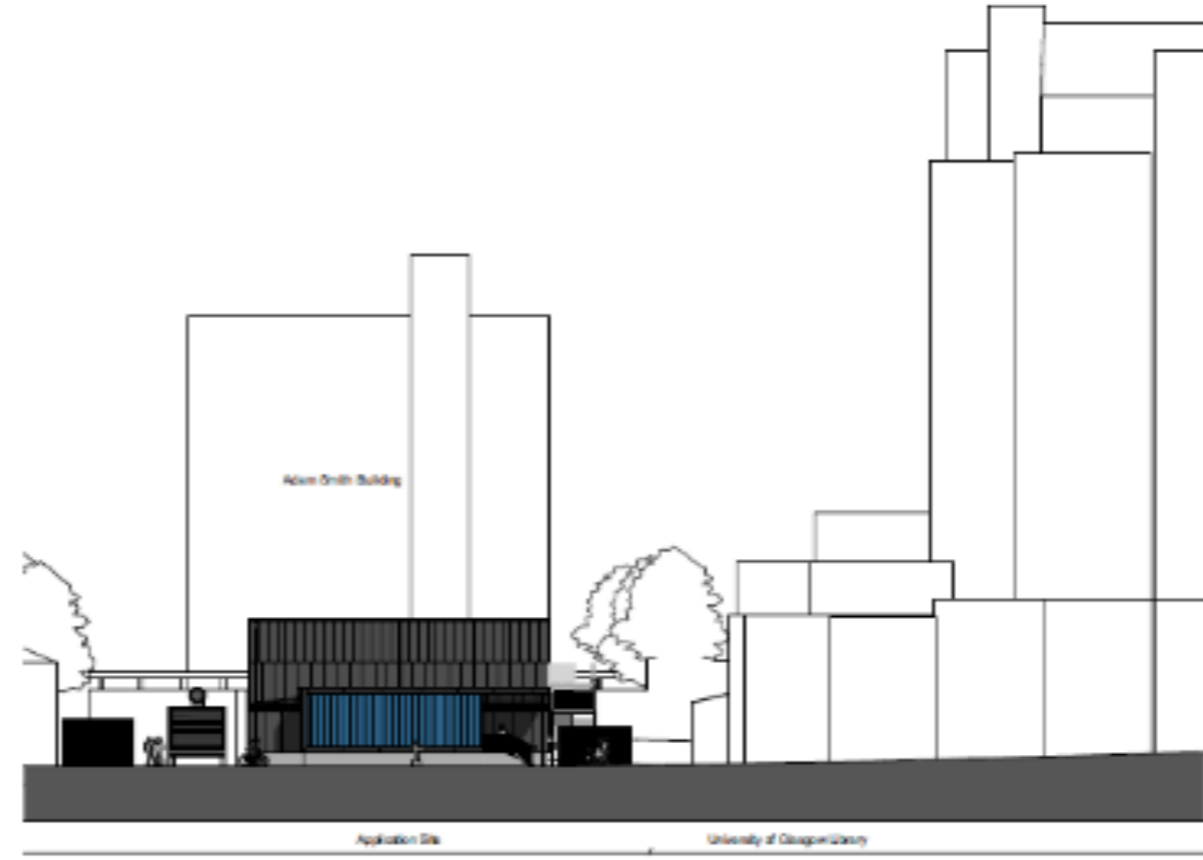
North Contextual Section
1:200



West Contextual Section
1:200



East Contextual Section
1:200

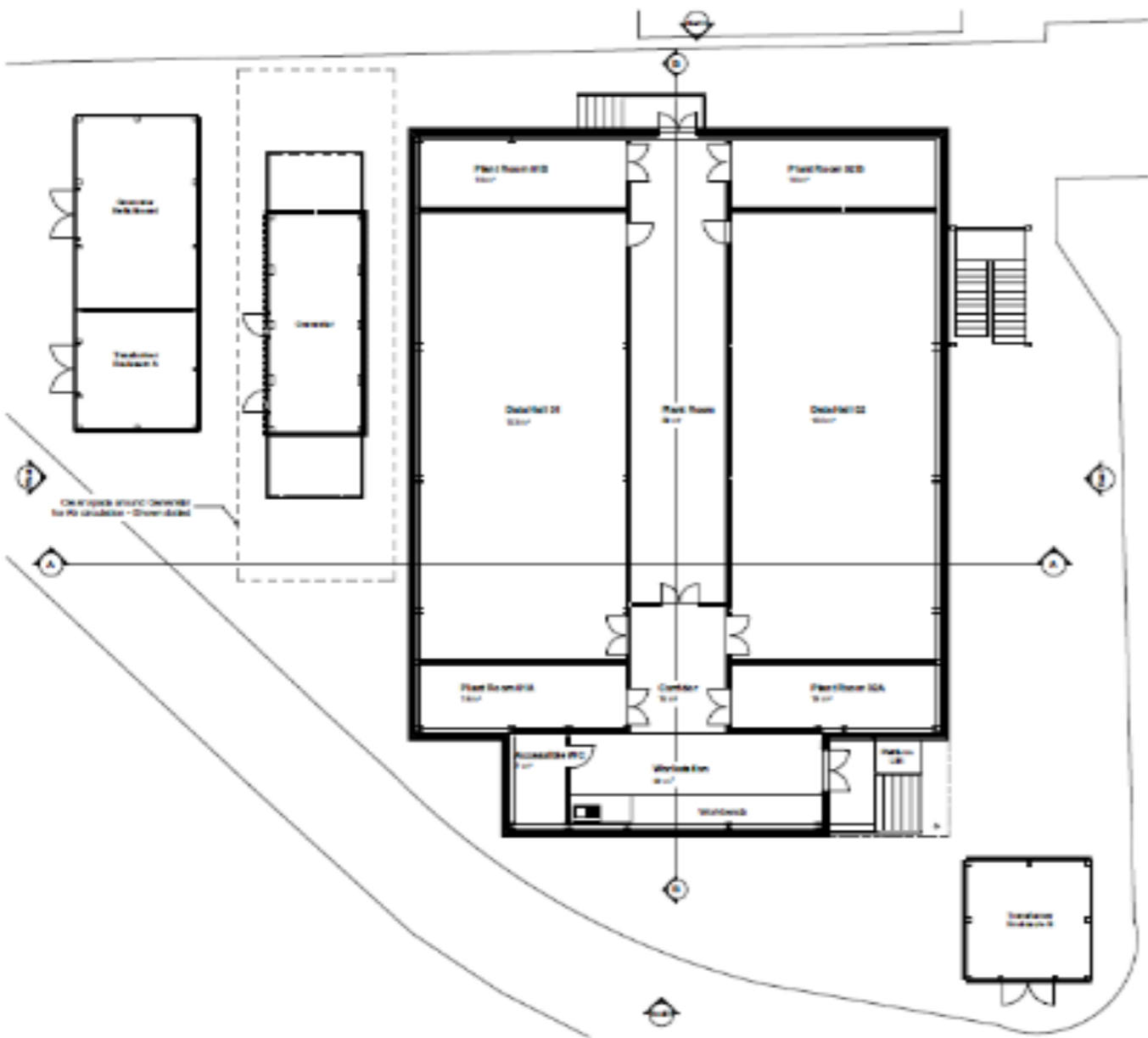


South Contextual Section
1:200

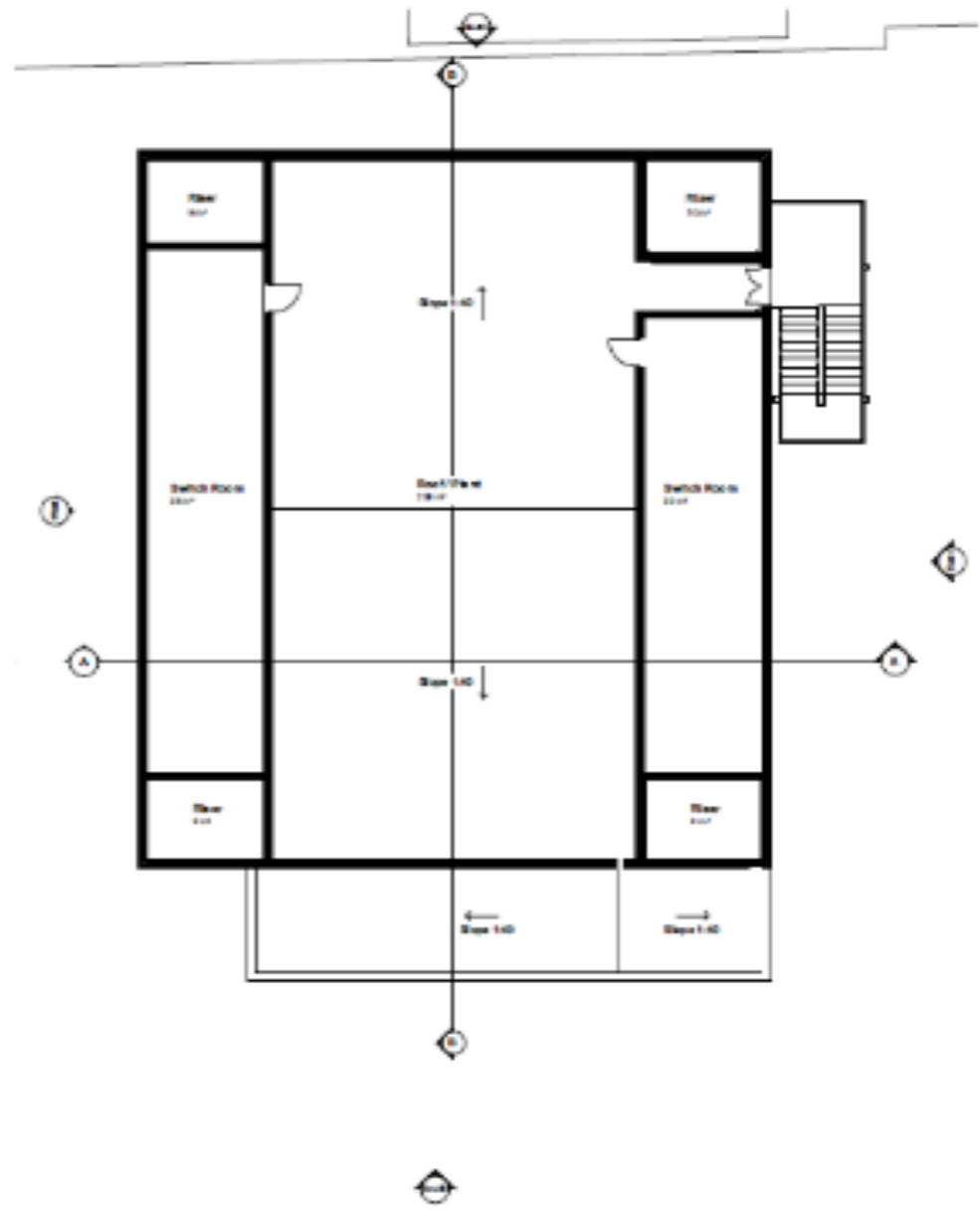
1:200
 Date of Issue: 14.01.2017
 Drawn by: HLM
 Checked by: HLM
 Project: KDC-HLM-V1-ZZ-DR-A-0021

Project Name	DATA CENTRE BUILDING
Client	University of Glasgow
Section Title	CONTEXTUAL SECTIONS
Project No.	KDC-HLM-V1-ZZ-DR-A-0021
Scale	1:200
Date	27.03.2017
Author	HLM

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 WWW.HLMARCHITECTS.COM



Ground Floor Plan
1:100



First Floor Plan
1:100



Section A - A
1:100



Section B - B
1:100

Scale:
Plan at 1:100 scale
Section at 1:100 scale
Elevation at 1:100 scale

Client:
Project:
Date:

DATA CENTRE BUILDING

Client:
University of Glasgow

PLANS AND SECTIONS

Project No:	Rev:
KDC-HLM-V1-00-DR-A-000	01
Scale:	Status:
1:100	OK
Date:	Author:
21/03/2017	HLM

HLM

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DATE: 2017-03-21 10:00:00

Transformer A

Gen 2

Gen 1

ScotGrid &
PHAS

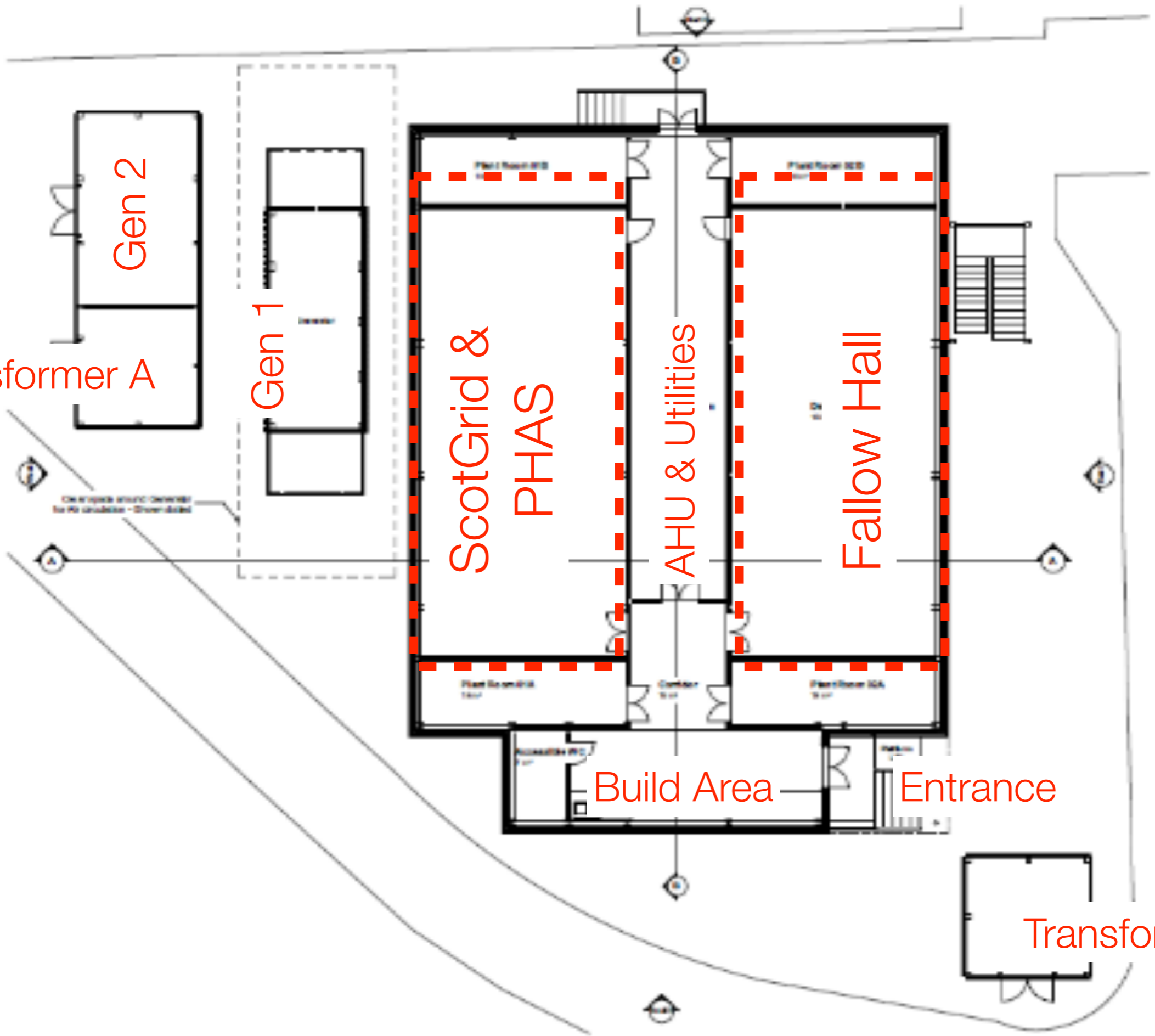
AHU & Utilities

Fallow Hall

Build Area

Entrance

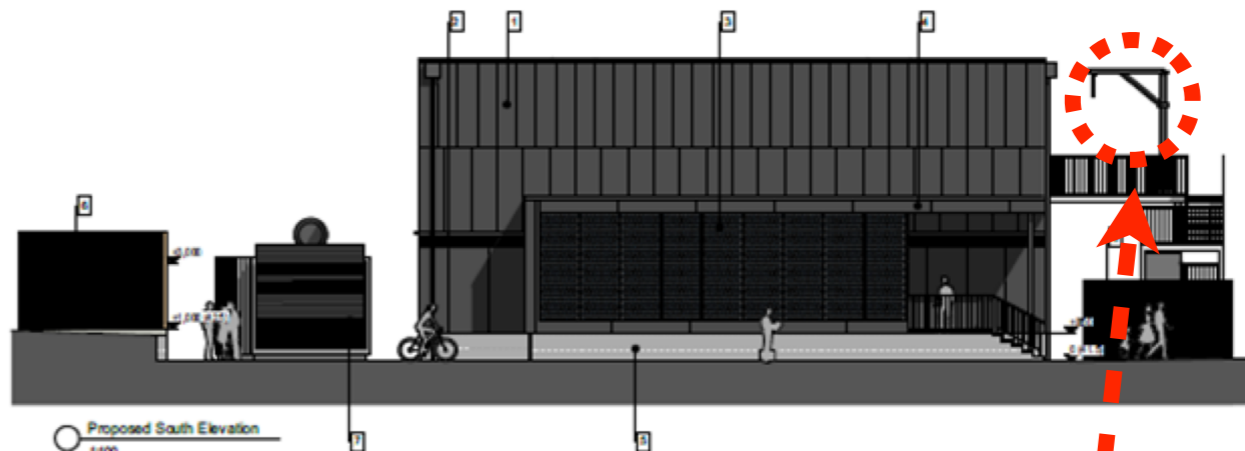
Transformer B



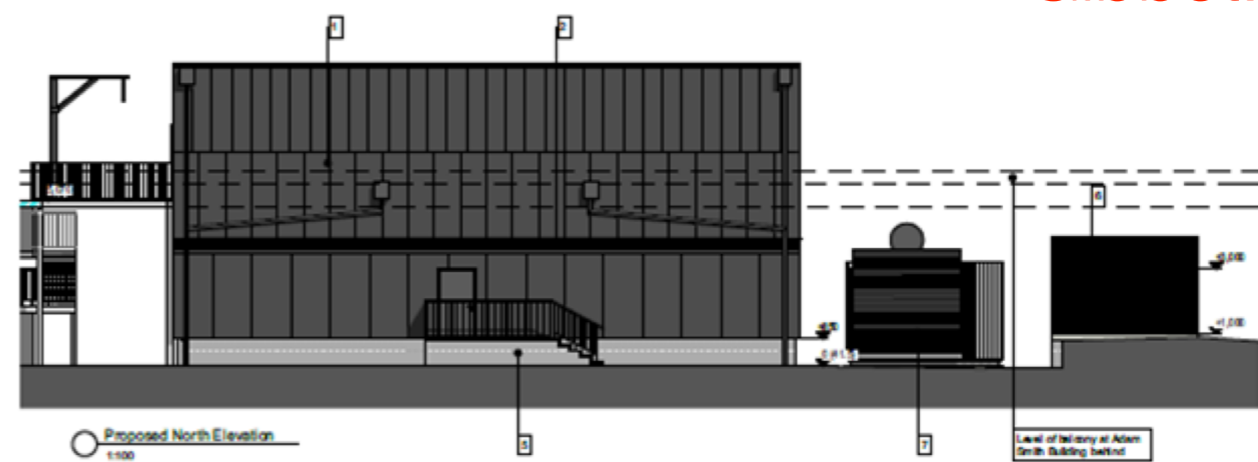
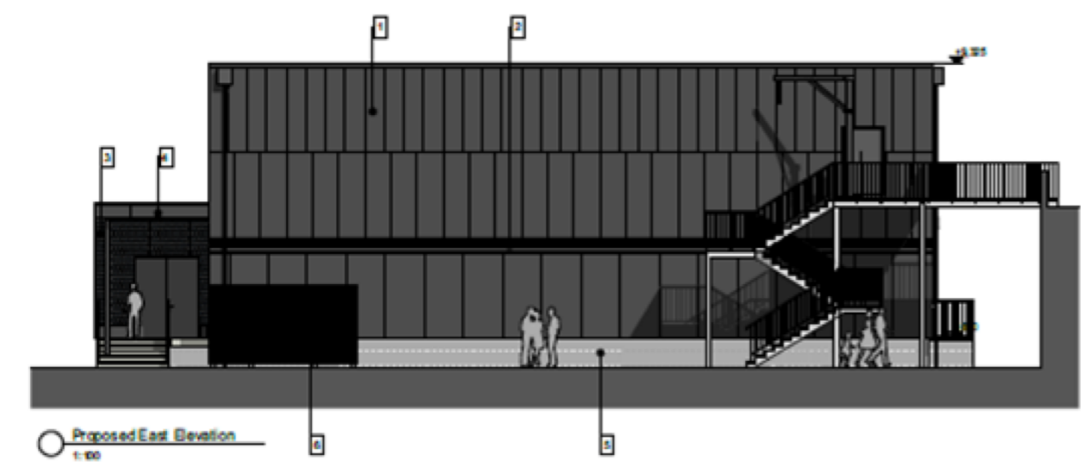
Note:
Check all dimensions on site. Do not scale from this drawing.
Refer to all drawings and sections to HLM & HLM.
This Drawing is Copyright ©

External Materials Key

- 1 Metal cladding system (dark grey)
- 2 Louvre / cladding system (dark grey)
- 3 Perforated metal cladding / (dark grey) over metal cladding (dark blue)
- 4 Canopy cladding (dark grey / black)
- 5 Brick base course
- 6 Timber screen to plant enclosures
- 7 Generator Switchboard (Steel Container)



Gibbet!?! (with red dashed arrow pointing to detail)



NO.	DESCRIPTION	DATE	BY
01	ISSUED FOR PERMITS	15/03/17	HLM
02	ISSUED FOR PERMITS	15/03/17	HLM
03	ISSUED FOR PERMITS	15/03/17	HLM

DATA CENTRE BUILDING

University of Glasgow

ELEVATIONS

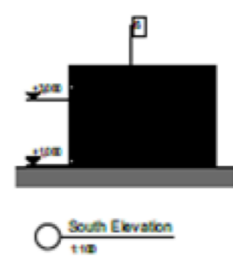
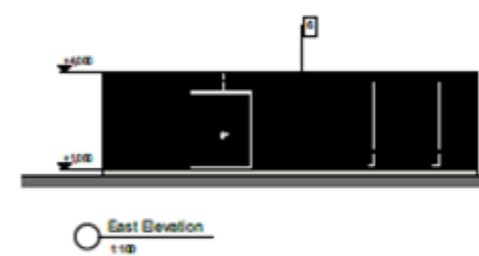
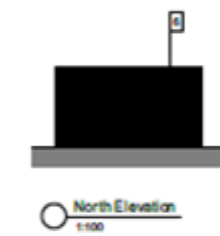
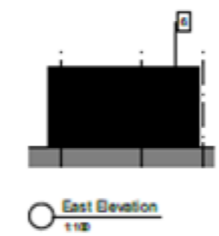
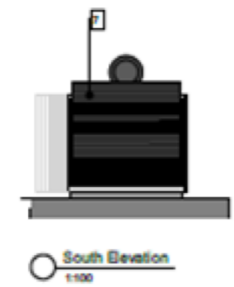
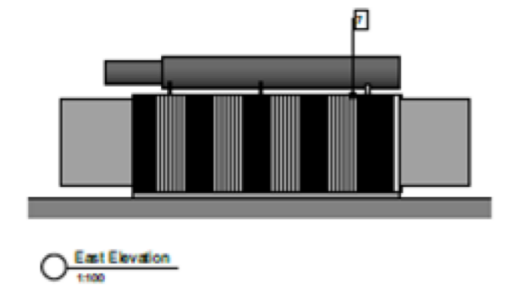
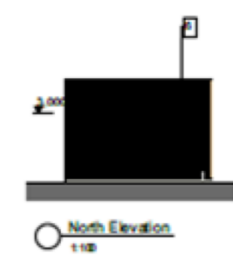
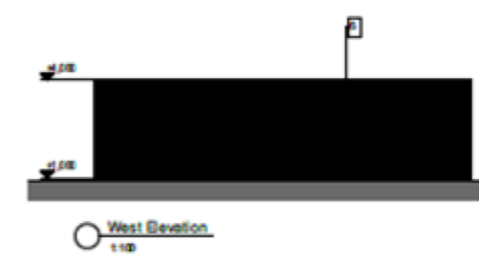
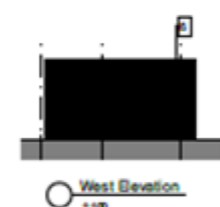
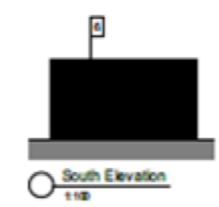
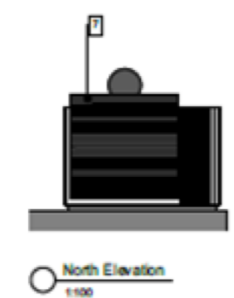
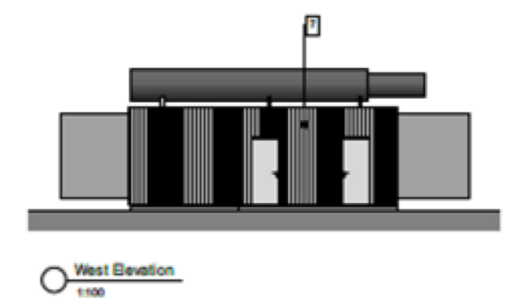
Drawing No.	Revision
KDC-HLM-V1-ZZ-DR-A-5011	03

Scale	Client
1:100	OK
Date	Checked
21/03/2017	HLM

HLM

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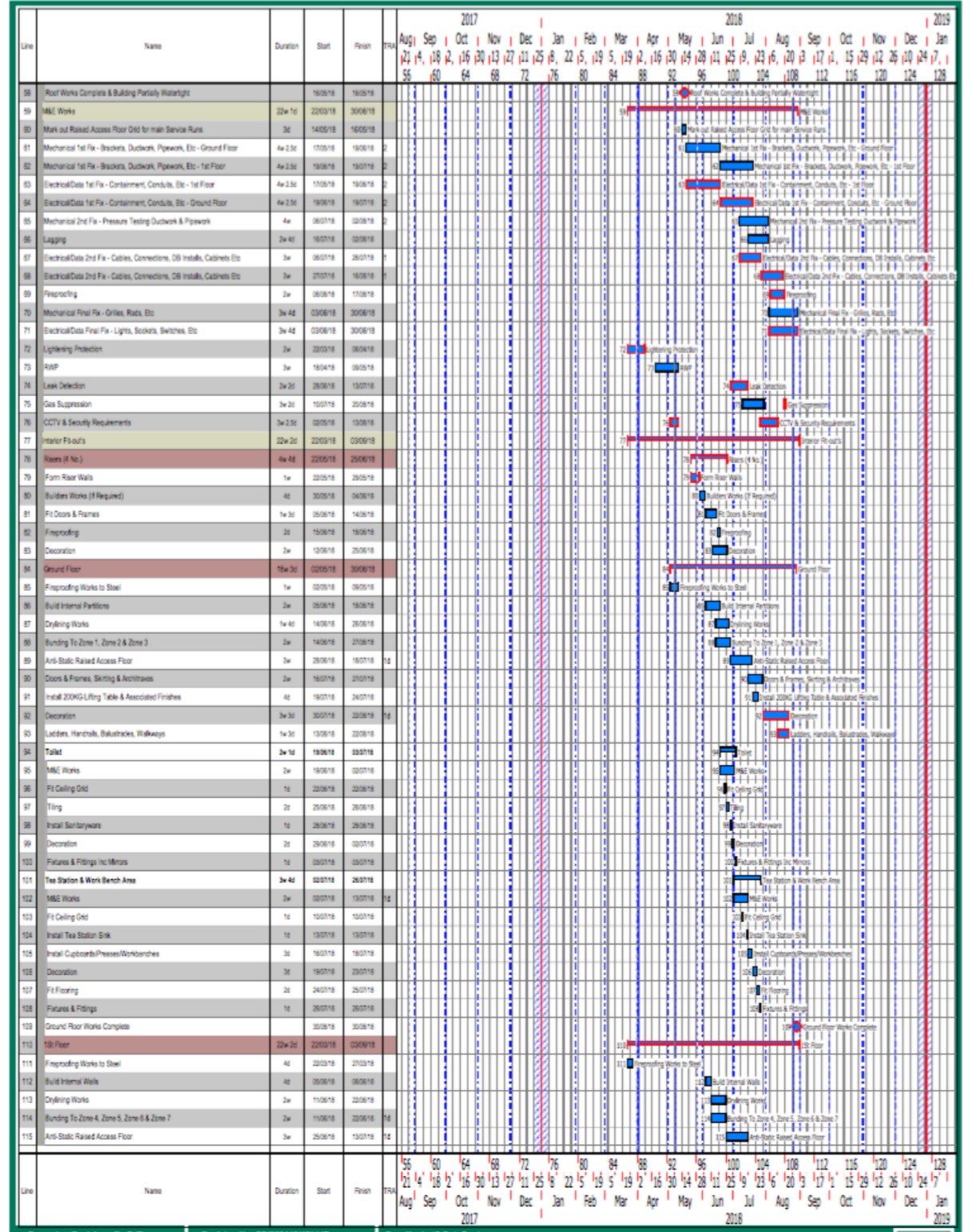
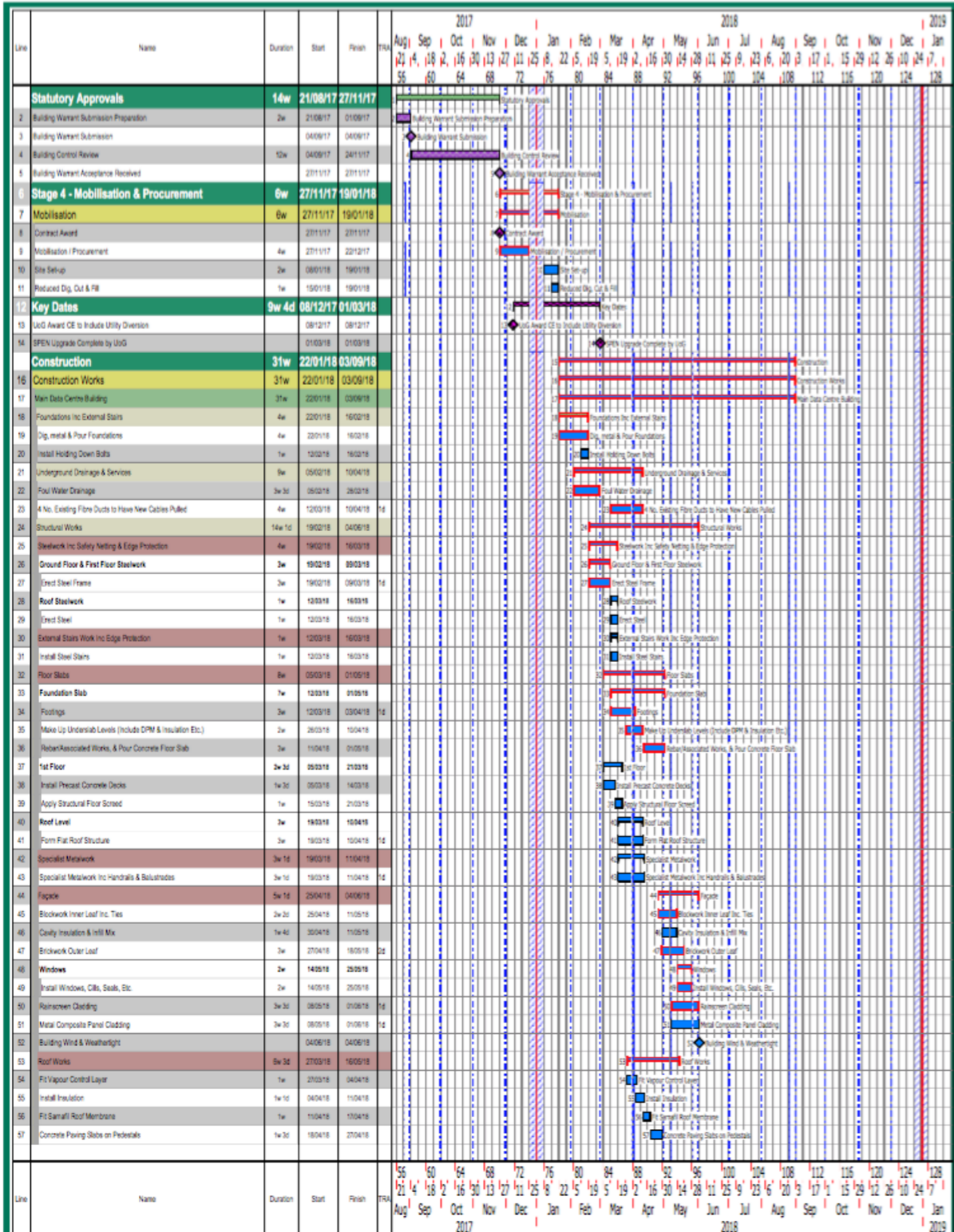


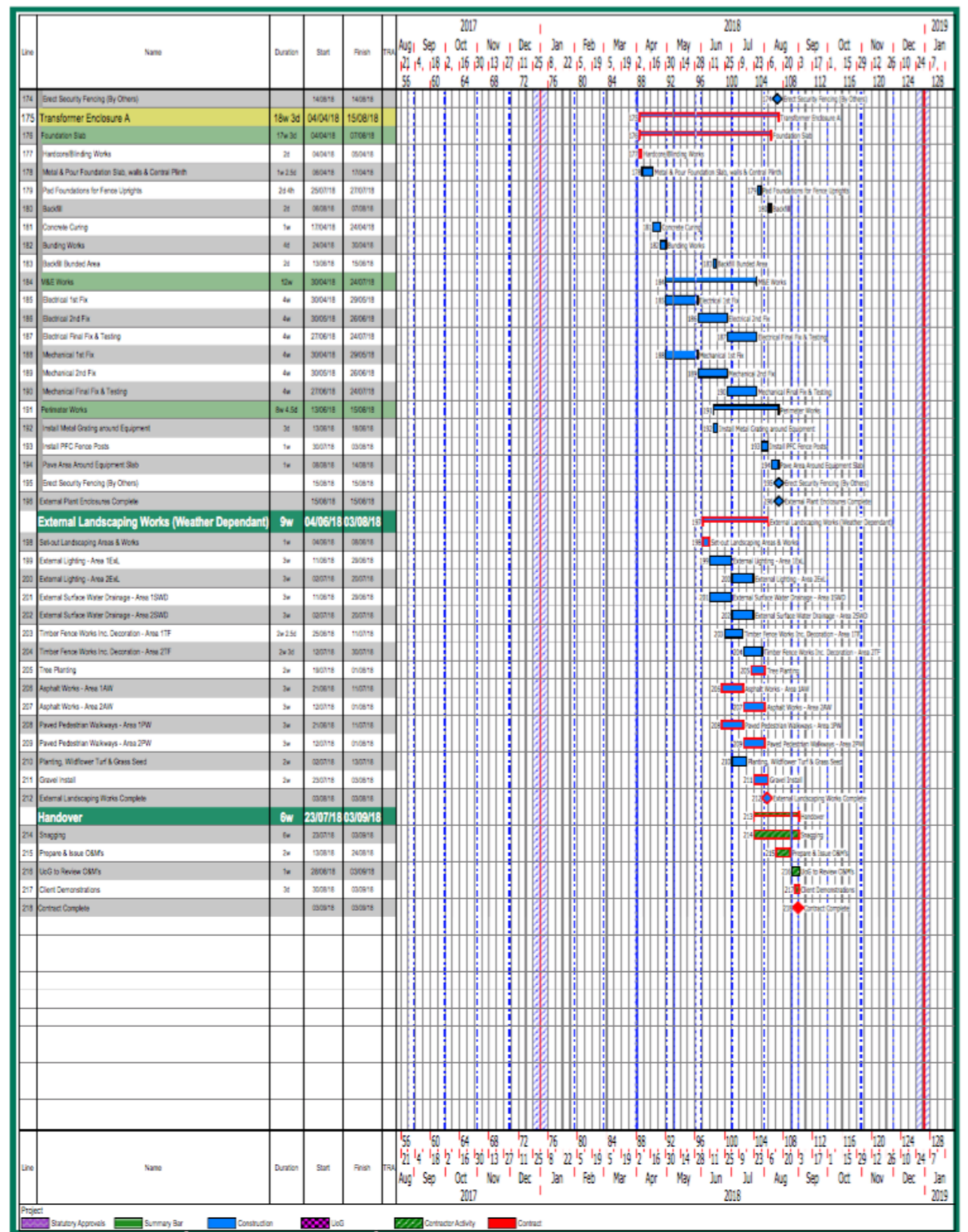
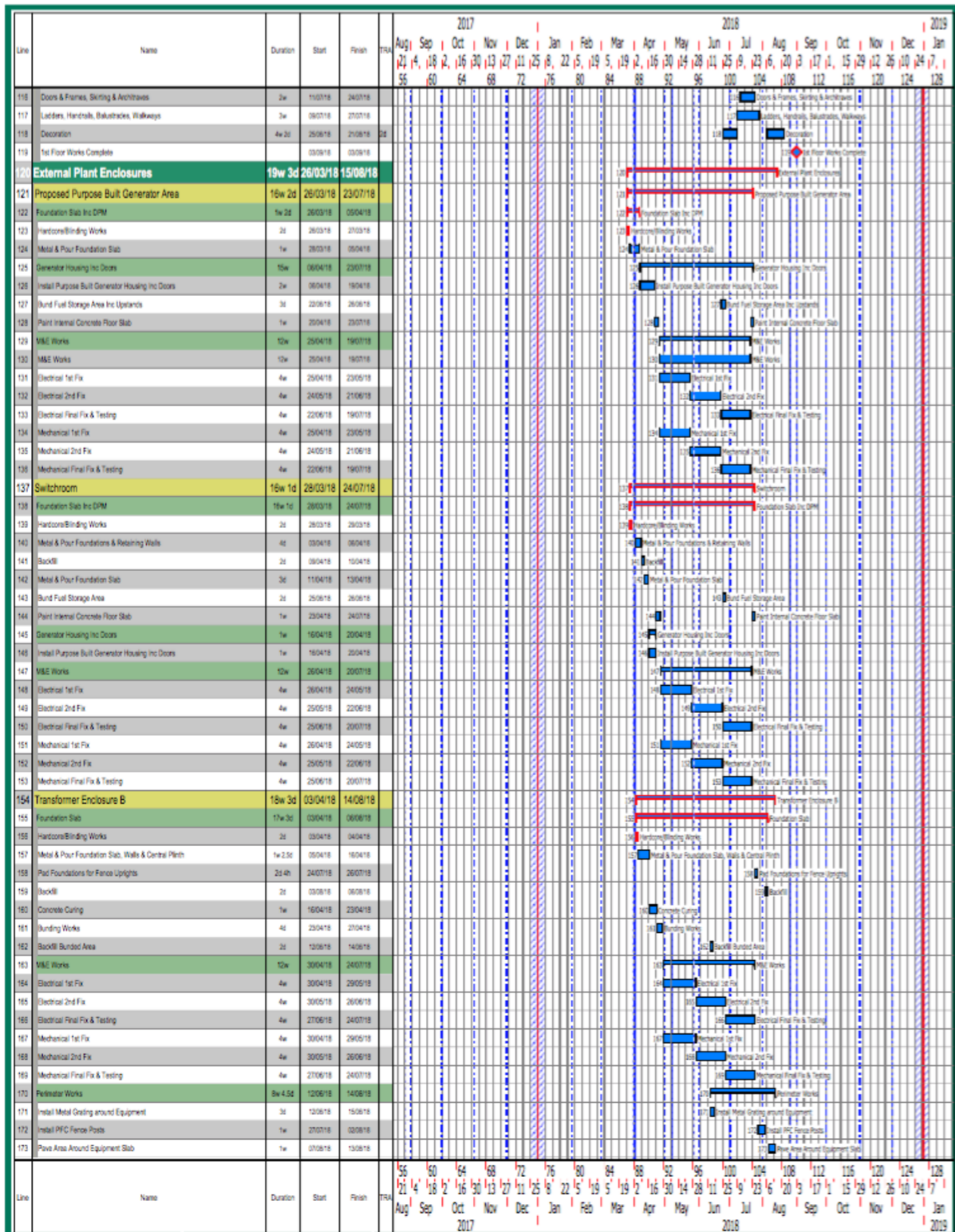
Proposed Generator (Steel Container)

Proposed Transformer Enclosure B

Proposed Transformer Enclosure A and Generator Switchboard







Timeline

- **22/1 - 03/9: Main Building Construction**

- 19/2 - 16/3: Steelwork & Edge Protection
- 12/3 - 16/3: External Stairs
- 19/3 - 11/4: Specialist Metalwork
- 5/3 - 1/5: Floor Slabs
- 25/4 - 4/6: Facade
- 27/3 - 16/5: Roof Works
- 22/5 - 25/6: Risers
- 2/5 - 30/8: Ground Floor
- 22/3 - 3/9: First Floor

- **26/3 - 15/8: External Plant Enclosures**

- 26/3 - 23/7: Generator Built Area
- 28/3 - 24/7: Switchroom
- 3/4 - 14/8: Transformer Enclosure A
- 4/4 - 15/8: Transformer Enclosure B

- **4/6 - 3/8: External Landscaping**

First work (9/1/2018)



2018

- No more disasters!!!
- Plan Migration to new DC in 2018:
 - New build system
 - Storage migration
 - IPv6 networking
 - Container WN



matt Dixon .co.uk