

CMP - June 2023

Module: Health, Safety and Welfare

Question 1

Refer to your drawings and scenario.

The stored artefacts within the storage facility are valuable, and the client wants maximum protection from fire and any ancillary damage to the artefacts. In addition, the building must be fully compliant with UK legislation.

Your company is the Main Contractor for the scheme and will need to develop the outline drawings into a fire strategy.

TASK:

- A) Identify the applicable UK fire legislation appropriate for the storage facility. **(5 Marks)**
- B) Produce an illustrated report explaining how both the client's requirements and legislative requirements for fire safety can be met. **(25 Marks)**

Indicative answers

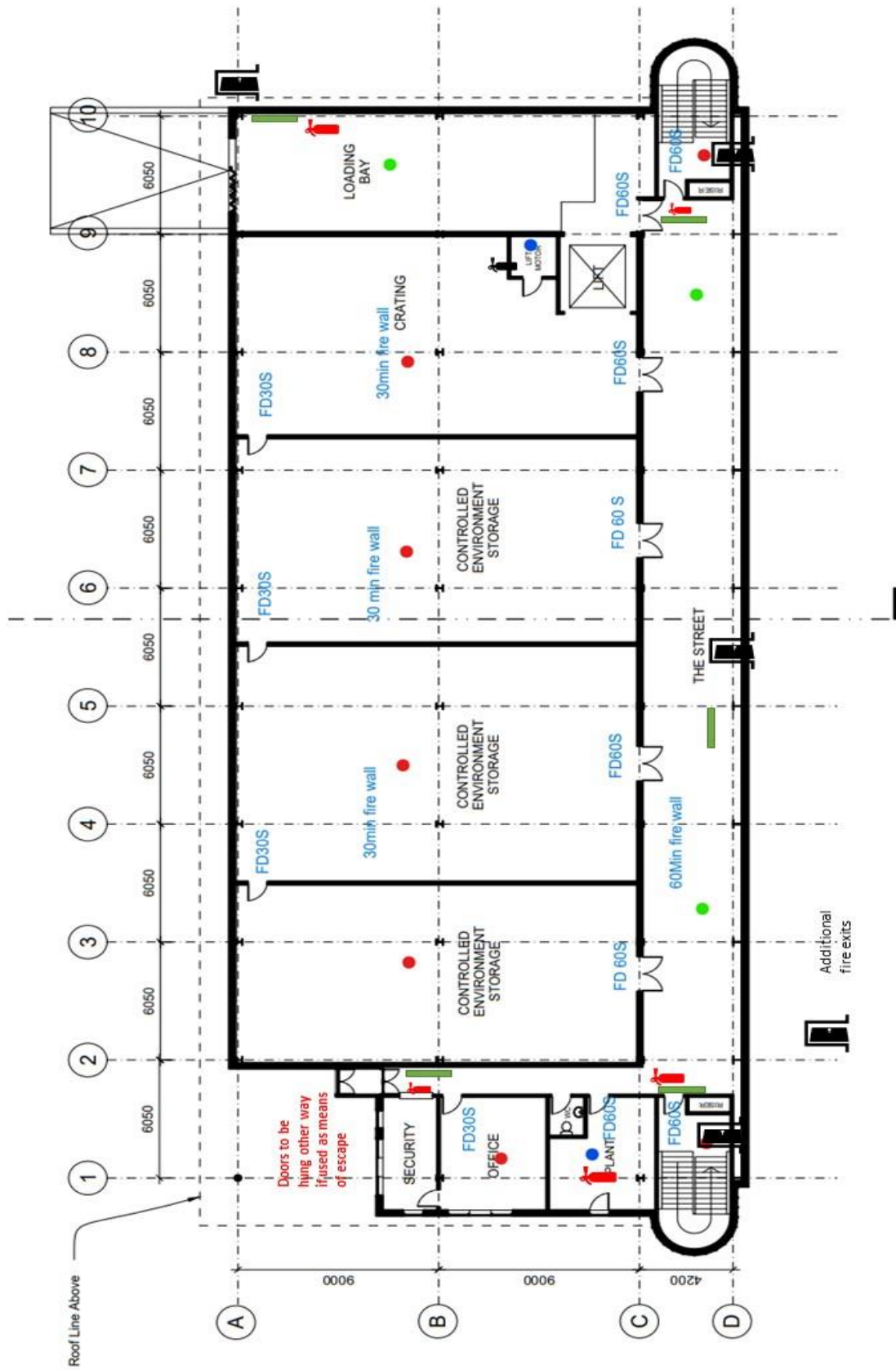
Markers – Please refer to the marking descriptors.

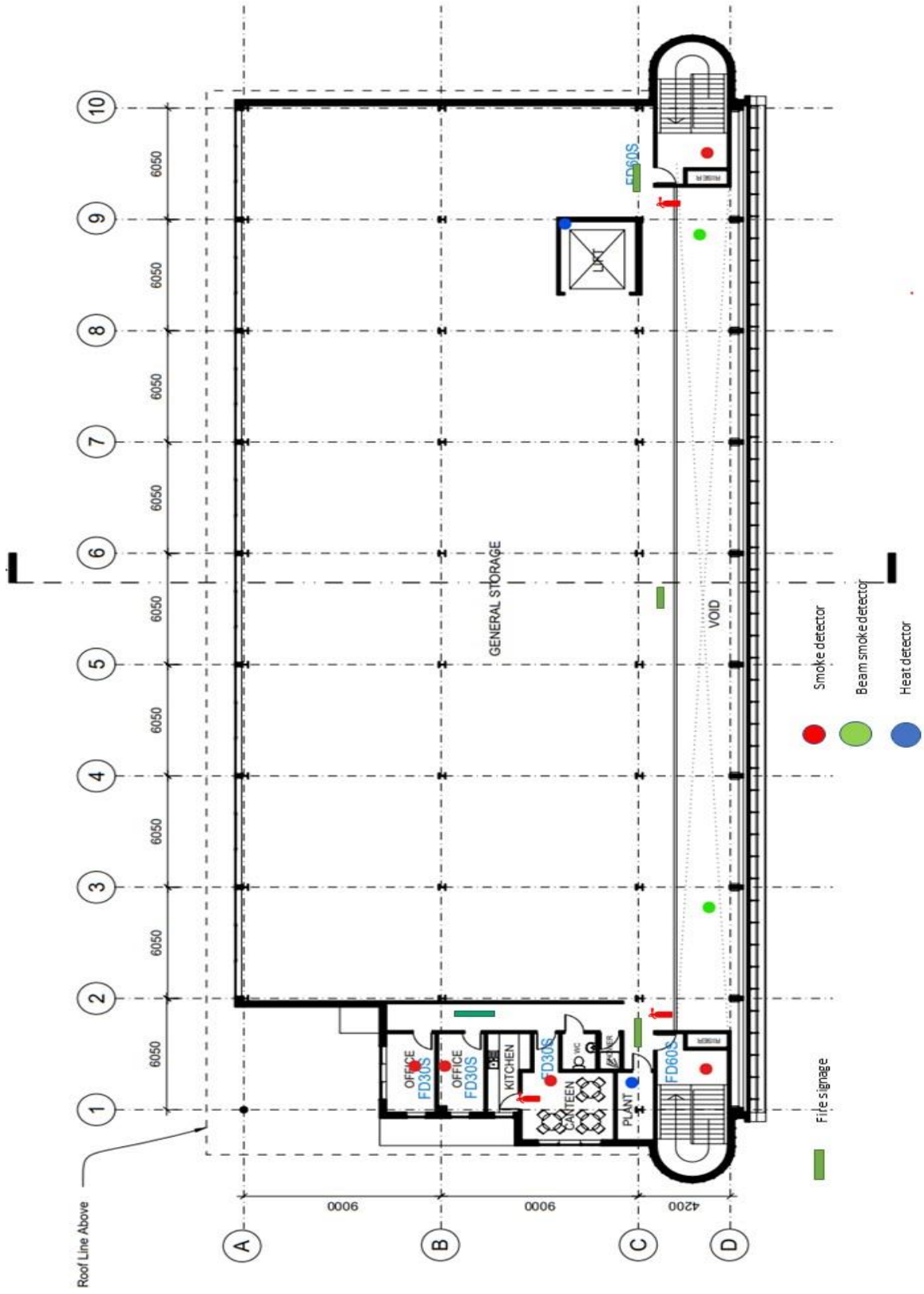
- A) Health and safety at work act 1974
Regulatory Reform Order (Fire Safety) 2007
Approved document B2 Building regulations 2020
BS9999
Safety Signs and Signals Regulations 1996
Approved document M2
Relevant legislation in other parts of the UK such as 'Building Standards technical handbook 2022 non-domestic section 4' (Scotland)
- B) Refer to the attached sketches for guidance – ideally candidates will submit something along these lines.

Candidates need to be able to describe both passive fire control measures (compartments, fire doors, Fire resisting construction, signage) and active control measures (Fire alarm systems, smoke venting, sprinkler systems, extinguishers and emergency lighting)

(5 Marks)

<p>Normal sprinkler systems are not suitable for this scenario; consider water misting for the first floor and inert gas system for the ground floor.</p> <p>Candidates should recognise that the building as drawn is not compliant with Approved document B in terms of travel distances and means of escape.</p> <p>Fail</p> <p>No drawings/sketches Sprinkler systems Not all aspects covered</p> <p>Pass Grade</p> <p>At least 2 of the relevant statutes Identify and differentiate between active/passive fire safety Relevant fire suppression method Basic sketch /drawings – hand annotation permissible All aspects covered</p> <ul style="list-style-type: none"> • Alarm systems • Compartmentation of fire stairs • Recognition that there are at least 4 additional fire exits required • Fire extinguisher points • Clear signage and emergency lights <p>Merit Grade</p> <p>All the above plus</p> <p>More than 2 of the relevant statutes Clear understanding of different systems, and fire separation methods. Appreciation of different fire detection systems and how they work Justification for choice of systems Enhanced drawings / sketches not hand annotated Refuge areas for disabled</p> <p>Distinction Grade</p> <p>All the above plus</p> <p>Fully annotated drawing showing different types of fire detection, call points signage extinguisher points fire exits and emergency lighting Clear knowledge of construction methods for escape routes</p>	<p>(25 Marks)</p>
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Question 2

Refer to your drawings and scenario.

The Client has indicated that the building will need to be 'accessible' (Disability Discrimination Act).

TASK:

A) Identify the legal framework underpinning accessibility. **(5 Marks)**

B) Prepare an illustrated report explaining how relevant legislative requirements can be met to ensure that the building is compliant with UK legislation and safe for all users.

(25 Marks)

Indicative answers

Markers – Please refer to the marking descriptors.

A) Statutory requirement of the Disability Discrimination Act 1995
Equality Act 2010
Workplace Regulations
Also Approved Document M Building regulations 2010
The Town and Country Planning (Development Management Procedure) (England) (Amendment) Order 2013
Relevant legislation in other parts of the UK such as 'Building Standards technical handbook 2022 non-domestic section 4' (Scotland)

(5 Marks)

B) Candidates should identify the following:

- Minimum dimensions for doors and passageways
- Ramps and entrance ways
- Toilet facilities
- Critical dimensions for lifts
- Refuge areas on first floor
- Interface with fire safety – Means of escape as per Approved document B2
- Compliance with Approved document M2
- Reference to BS 8300
- Will need to include external as well as internal works
- The need to include accessibility matters in the Design and access statement submitted to the planning authority.

(25 Marks)

<p>Candidates who use illustrations and extracts from the BS/Doc M should be awarded higher marks</p> <p>Candidates who recognise that a design and access statement will need to be incorporated within the planning process should be awarded a merit</p> <p>Candidates who produce a report that approaches the subject holistically by incorporating DDA with fire safety should achieve distinction status.</p>	
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