

Archer Humphryes Architects

142 Central Street
LONDON EC1V 8AR

17.06.2021

DESIGN INTENT – INDICATIVE SPECIFICATION FOR :

Koko Dome – Cupola maintenance access mansafe system

NOTE :

AHA architectural design intent specification only – all information below is indicative.
Final design by specialist engineers only, system installation by accredited specialists only.

This document should be read in association with the following architectural plans :

AHA-KKR-DET-050 Dome Overall Section
AHA-KKR-DET-051 Dome Copper Cladding Details (Sheet 1)
AHA-KKR-DET-052 Dome Copper Cladding Details (Sheet 2)
AHA-KKR-DET-053 Dome Copper Cladding Details (Sheet 3)
AHA-KKR-DET-054 Dome Ladder Details (Sheet 1)
AHA-KKR-DET-055 Dome Ladder Details (Sheet 2)_Rev A

AIMS :

To provide indicative design information and specifications with the following objectives :

- Devise an access to the dome cupola for general maintenance
- Devise an access so that all maintenance tasks can be discharged safely
 - Clear possible debris clogging windcatcher
 - Maintain cupola (repairs to paint work, weather proofing)
 - Maintain lightening rod
 - Clear any debris accumulating in cupola
 - Regular inspections
- A system for 2 operatives working at once
- A safe access system fully compliant with current Regulations and Standards

The system is envisaged as composed of 4 elements :

1. The access ladder
2. The access ladder's vertical mansafe system
3. The horizontal mansafe system (access around the cupola)
4. End user PPE (2 operatives)

All elements must be designed as a complete coordinated access system delivered with appropriate certifications.

1. THE ACCESS LADDER

The ladder is to be fixed at the head and base.
Intermediate fixings to the ladder stiles to be avoided if possible.

Design criteria :
BS 4211:2005

Material :
Mill finish Aluminium (or equal approved).

Ladder height :
6965mm approx.

Exact dome dimensions to be verified on site prior to fabrication.
For indicative ladder length dimensions refer to AHA-KKR-DET-050.

Fixing details to head :
Fixed back to structural element.
Refer to the following S.E. documents :

HTS-1444-GGS-01 29/05/20 Koko – Comments on Dome Connections
HTS Comments date 19.01.21 – AHA Dome Drawings – AHA/KKR/DET/055

Fixing details to base :
Design intent : Base plate fixed to dome structural slab.
Refer to AHA/KKR/DET/055 Detail 2

Fixing details to ladder stiles :
Design intent : fixed back to structural steel

Structural Engineer to confirm dome structural elements on to which ladder is to be fixed.

2. THE ACCESS LADDER'S VERTICAL MANSAFE SYSTEM

Vertical mansafe to be fixed to the ladder.

Specialist contractor to supply, install and test Ladderlatch vertical fall protection systems (or approved equal).

Tested in line with European and British standards, and tested and approved by manufacturers.

Can be designed for use for 1no. operative at any one time with a maximum free-fall distance of 0.5m.

Fixing background :

Permanently fixed steel or aluminium ladder

Design criteria :

EN353-2:2002 and equivalent current British Standard.

Loading :

max. 10 kN indicative (to be confirmed by S.E.)

Post Material :

Galvanised mild steel

Component material :

316 stainless steel

Wire rope :

8mm 316 S16 stainless steel BS MA29

Int. centres :

4m max.

Fixing details :

Mechanically fixed to existing ladder

3. THE HORIZONTAL MANSAFE SYSTEM

Specialist contractor to design, supply, install and test penetrative traditionally fixed Latchways fall protection systems.

System is to be mechanically fixed back to structural members as indicated by S.E.
If suitable steelwork is not available, alternative fixing methods will be required.

All should be tested in line with European and British Standards and designed for use for up to 2no. operatives working at once with a maximum free-fall distance of 2.0m.

Design criteria :
BS EN795:2012

Loading (top of post) :
max. 38kN factored

Post Material :
Galvanised mild steel

Component Material :
316 stainless steel

Wire rope :
8mm 316 S16 stainless steel BS MA29

Post centres :
10m max.

Post height :
400mm

Fixing details :
Mechanical to structural elements – verified by S.E.

4. END-USER PERSONAL PROTECTION EQUIPMENT

Plan for 2no. operatives.

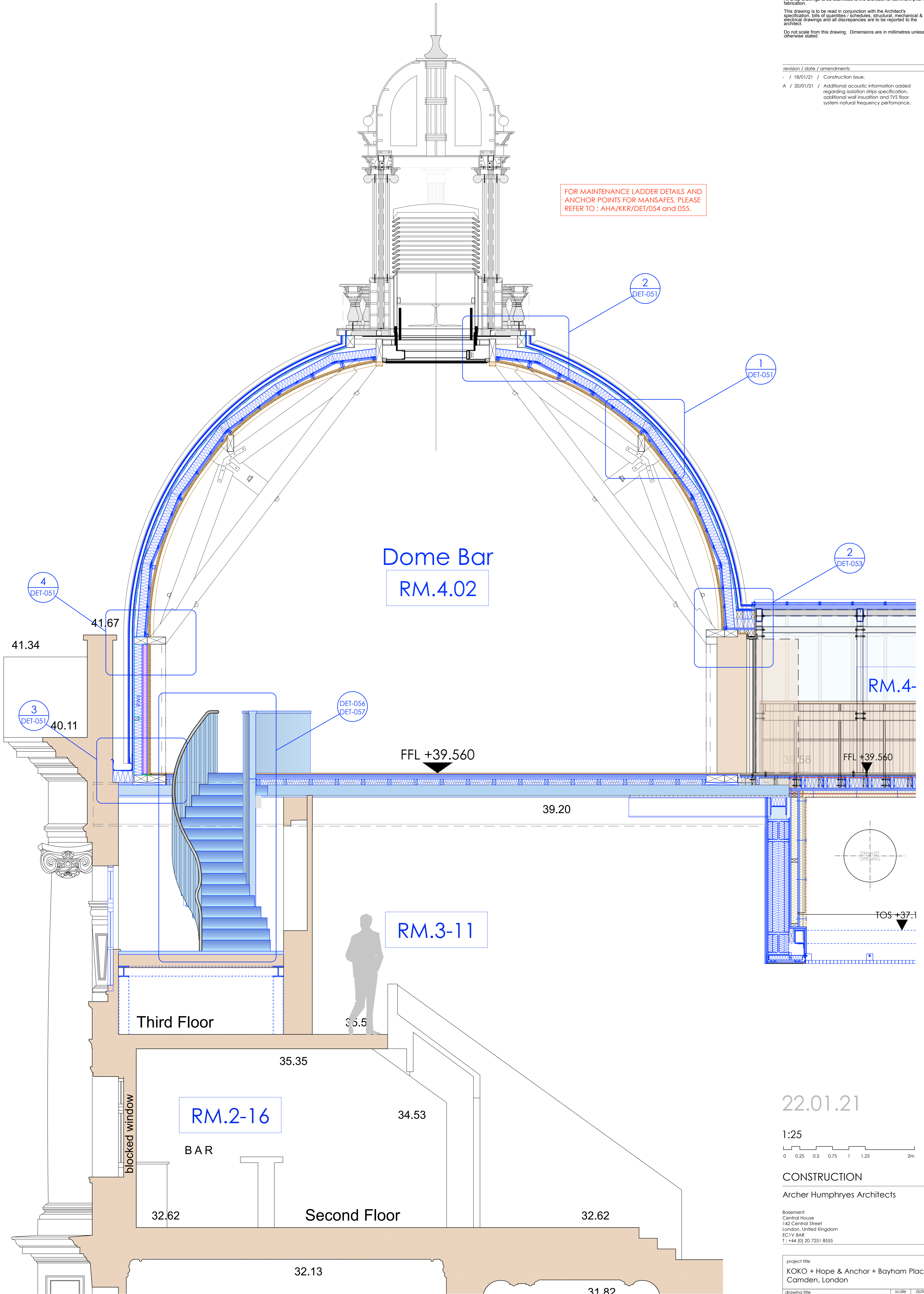
Must include as required :

- Transfasteners
- Body harnesses
- Lanyards
- PPE storage

Copyright: All rights reserved. This drawing must not be reproduced without permission.
 Only the original drawing should be relied upon. Contractors, subcontractors and suppliers must verify all dimensions on site before commencing any work or making any shop drawings.
 All shop drawings to be submitted to the architect for comment prior to fabrication.
 This drawing is to be read in conjunction with the Architect's specification, bills of quantities / schedules, structural, mechanical & electrical drawings and all discrepancies are to be reported to the architect.
 Do not scale from this drawing. Dimensions are in millimetres unless otherwise stated.

revision / date / amendments
 - / 18/01/21 / Construction issue.
 A / 20/01/21 / Additional acoustic information added regarding isolation strips specification, additional wall insulation and TVS floor system natural frequency performance.

FOR MAINTENANCE LADDER DETAILS AND ANCHOR POINTS FOR MANSAFES, PLEASE REFER TO : AHA/KKR/DET/054 and 055.



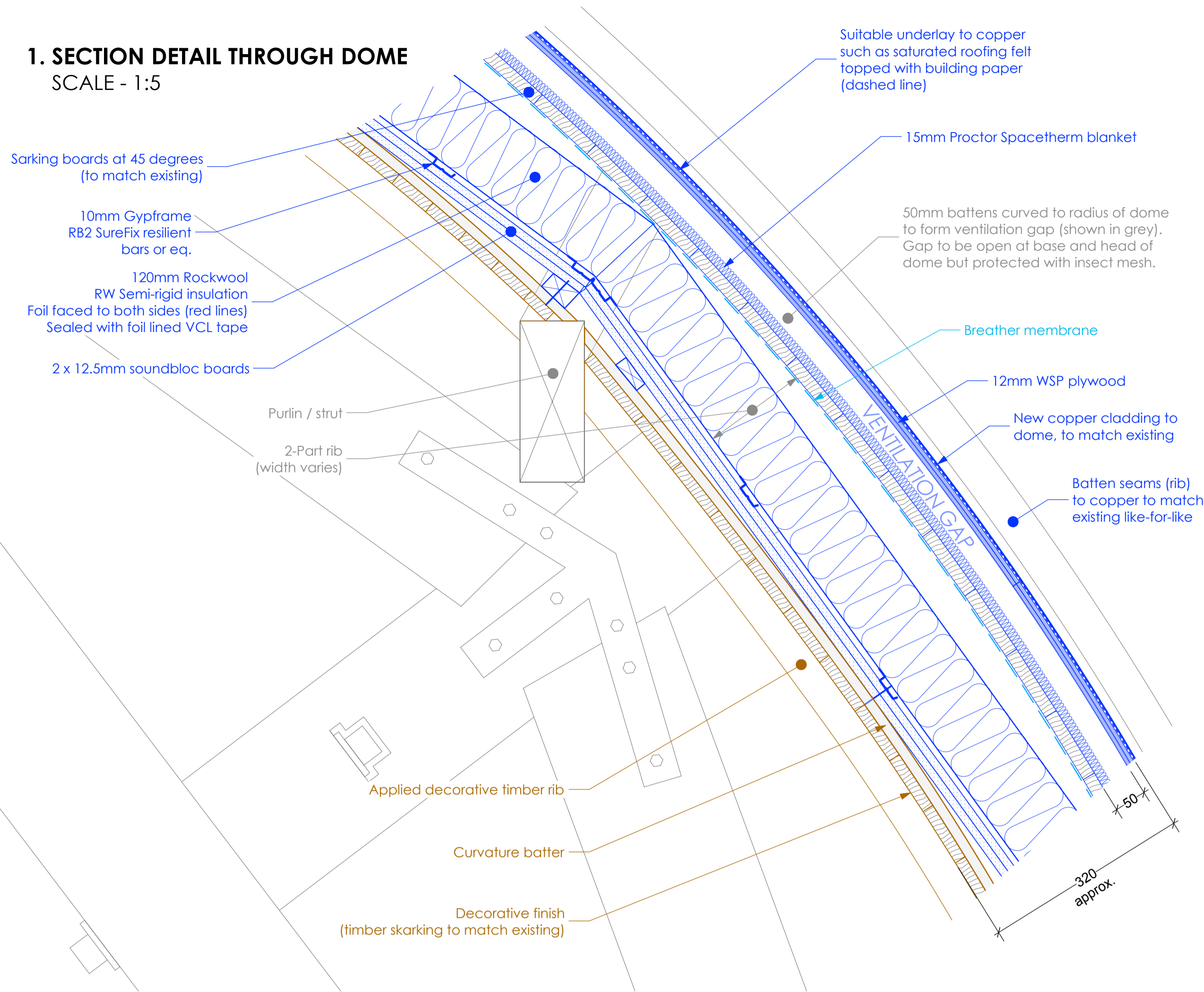
22.01.21
 1:25
 0 0.25 0.5 0.75 1 1.25 2m

CONSTRUCTION
 Archer Humphreys Architects

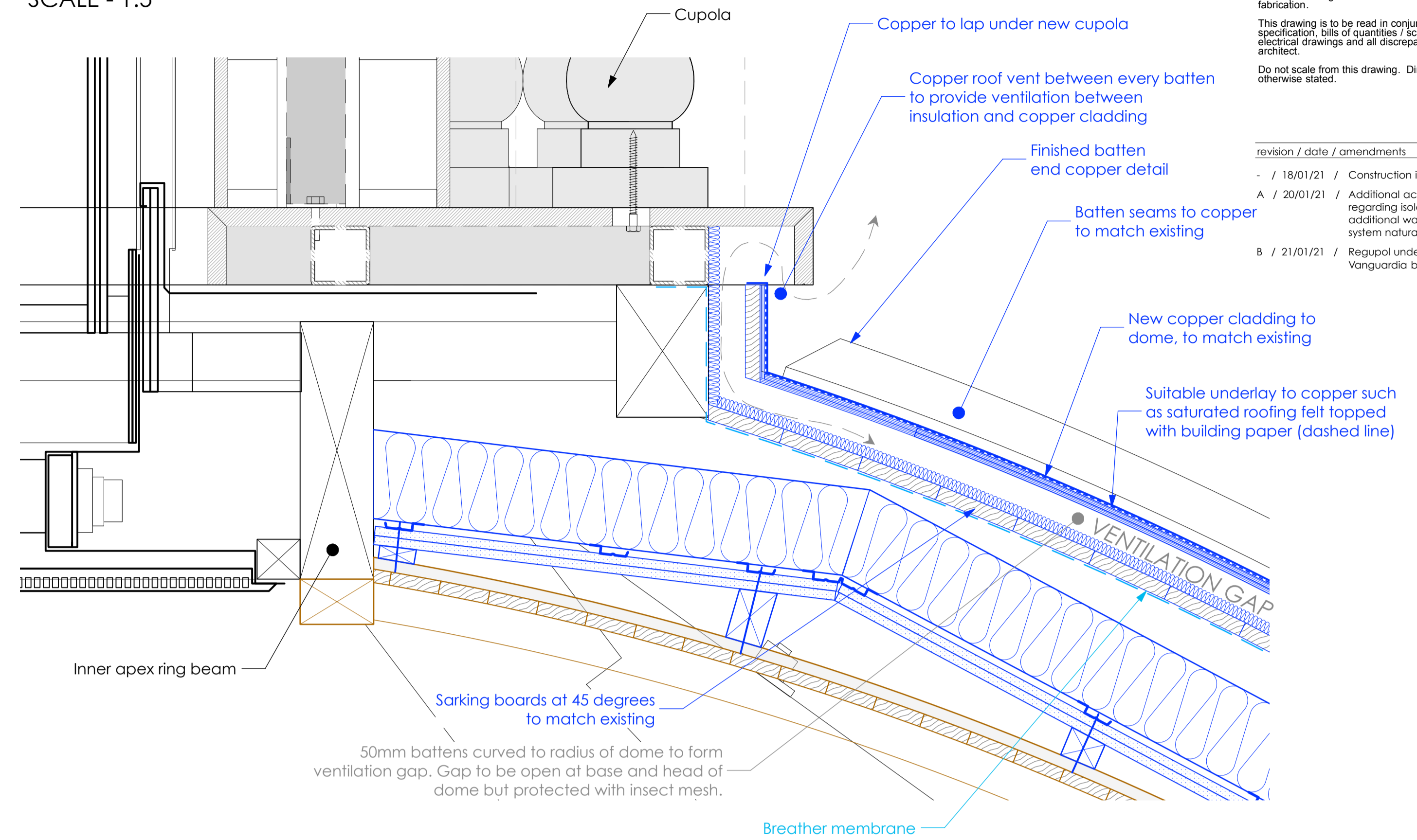
Basement
 Central House
 142 Central Street
 London, United Kingdom
 EC1V 8AR
 T: +44 (0) 20 7251 8555

project title			
KOKO + Hope & Anchor + Bayham Place Camden, London			
drawing title	scale	date	
Proposed Dome Overall Section	1:25 @A1	08.01.21	
drawing number	drawn	checked	
AHA/ KKR /DET/050	PD	DA	
	revision		
	A		

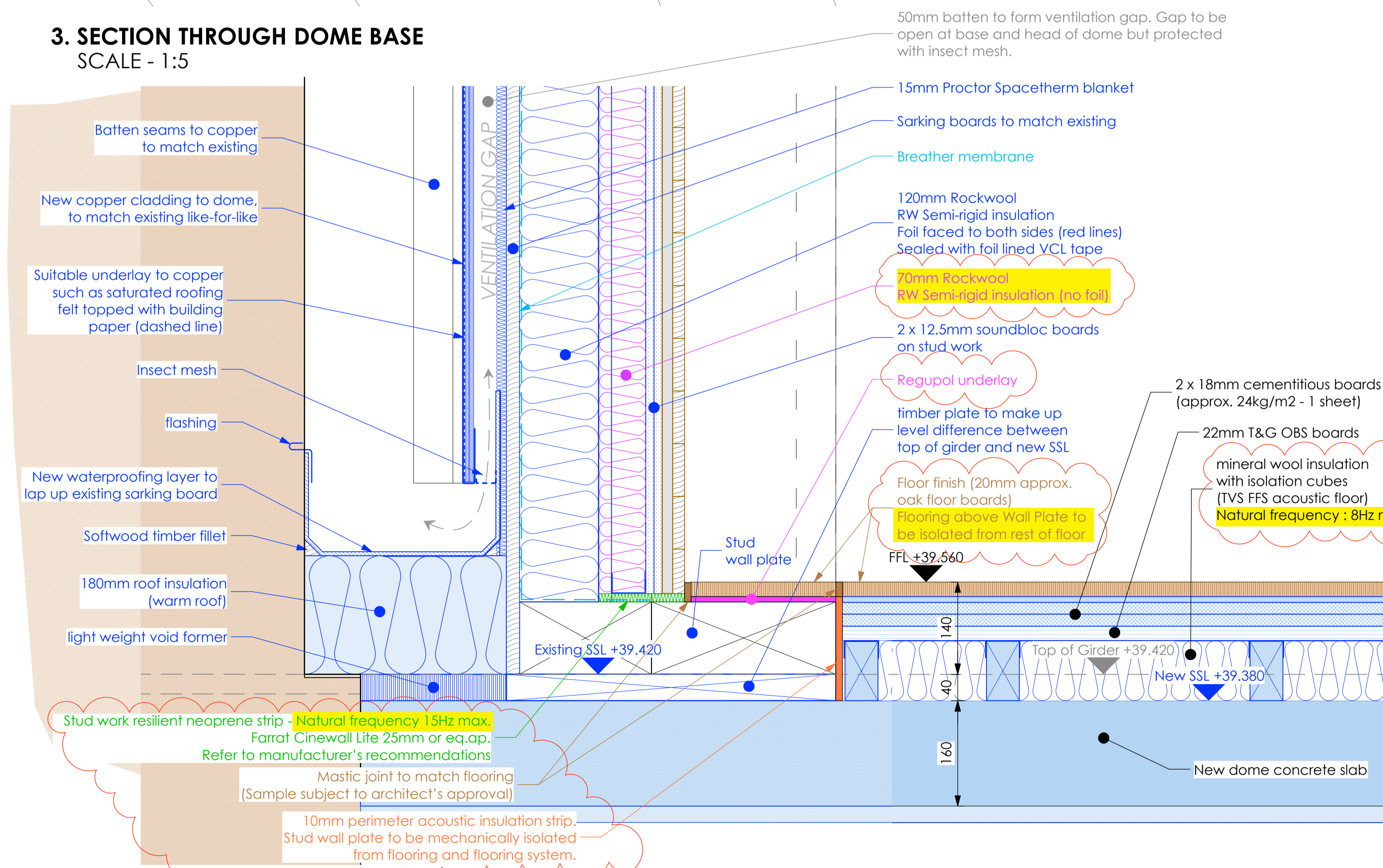
1. SECTION DETAIL THROUGH DOME
SCALE - 1:5



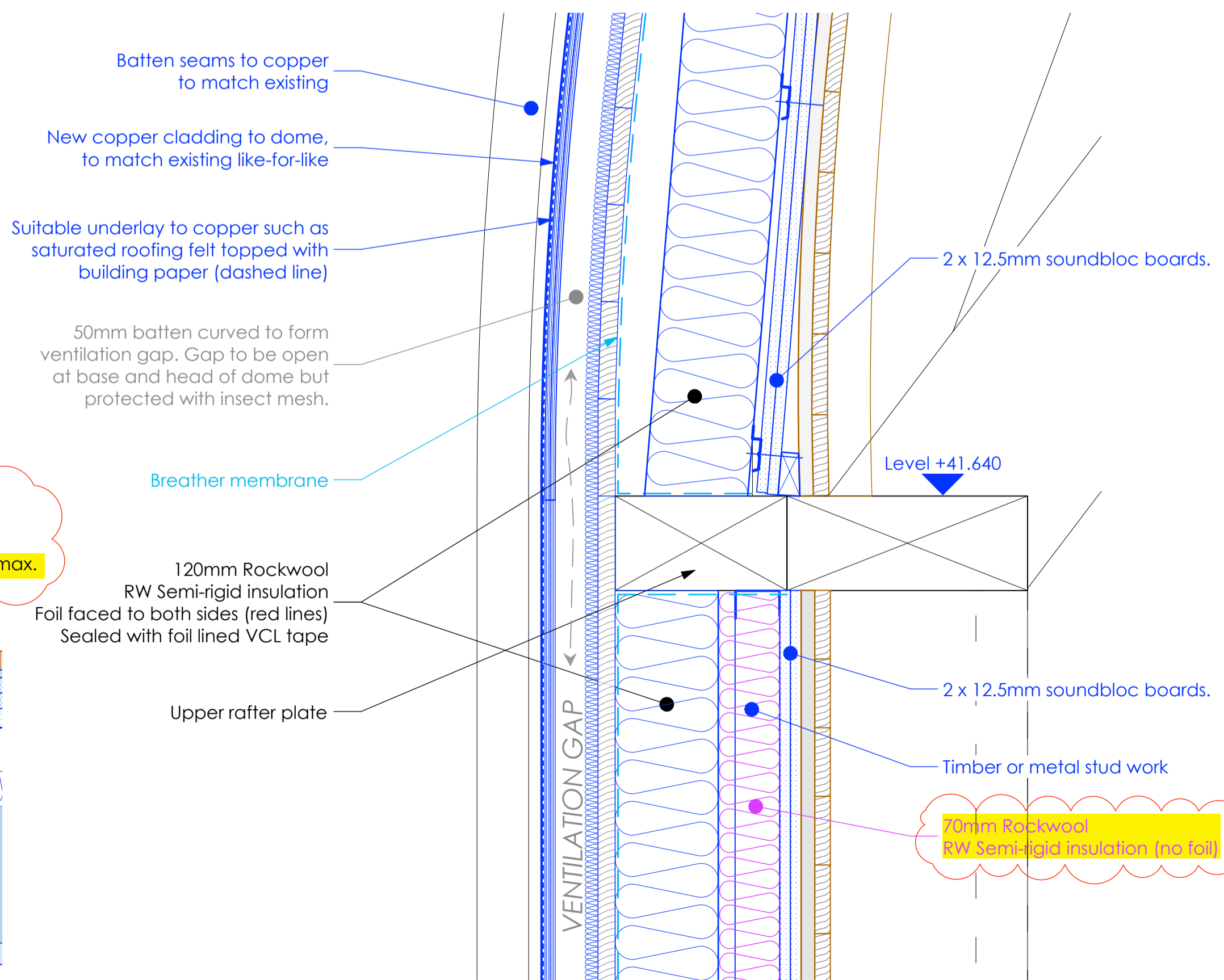
2. SECTION THROUGH DOME HEAD
SCALE - 1:5



3. SECTION THROUGH DOME BASE
SCALE - 1:5



4. SECTION THROUGH UPPER RAFTER PLATES
SCALE - 1:5



Copyright: All rights reserved. This drawing must not be reproduced without permission.

Only the original drawing should be relied upon. Contractors, subcontractors and suppliers must verify all dimensions on site before commencing any work or making any shop drawings.

All shop drawings to be submitted to the architect for comment prior to fabrication.

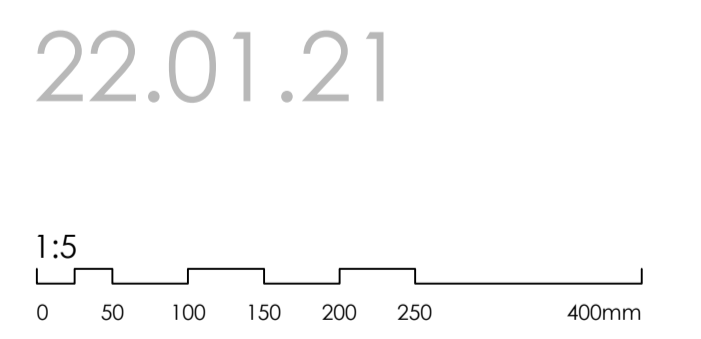
This drawing is to be read in conjunction with the Architect's specification, bills of quantities / schedules, structural, mechanical & electrical drawings and all discrepancies are to be reported to the architect.

Do not scale from this drawing. Dimensions are in millimetres unless otherwise stated.

revision / date / amendments
- / 18/01/21 / Construction issue.
A / 20/01/21 / Additional acoustic information added regarding isolation strips specification, additional wall insulation and TVS floor system natural frequency performance.
B / 21/01/21 / Regupol underlay recommended by Vanguardia between stud plate and flooring.

NOTE:

Timber trusses and sarking boards are to be treated for Class-0 Spread of Flame rating with a fire retardant coating for timber. This comprises of (Envirograv) 2x coats q/vtr/c - clear fire rated. Clear fire rated coatings are applied opaque white and dry clear. Contractor to test coating on sarking board for review prior to full application.



CONSTRUCTION

Archer Humphryes Architects

Basement
Central House
142 Central Street
London, United Kingdom
EC1V 8AR
T: +44 (0) 20 7251 8555

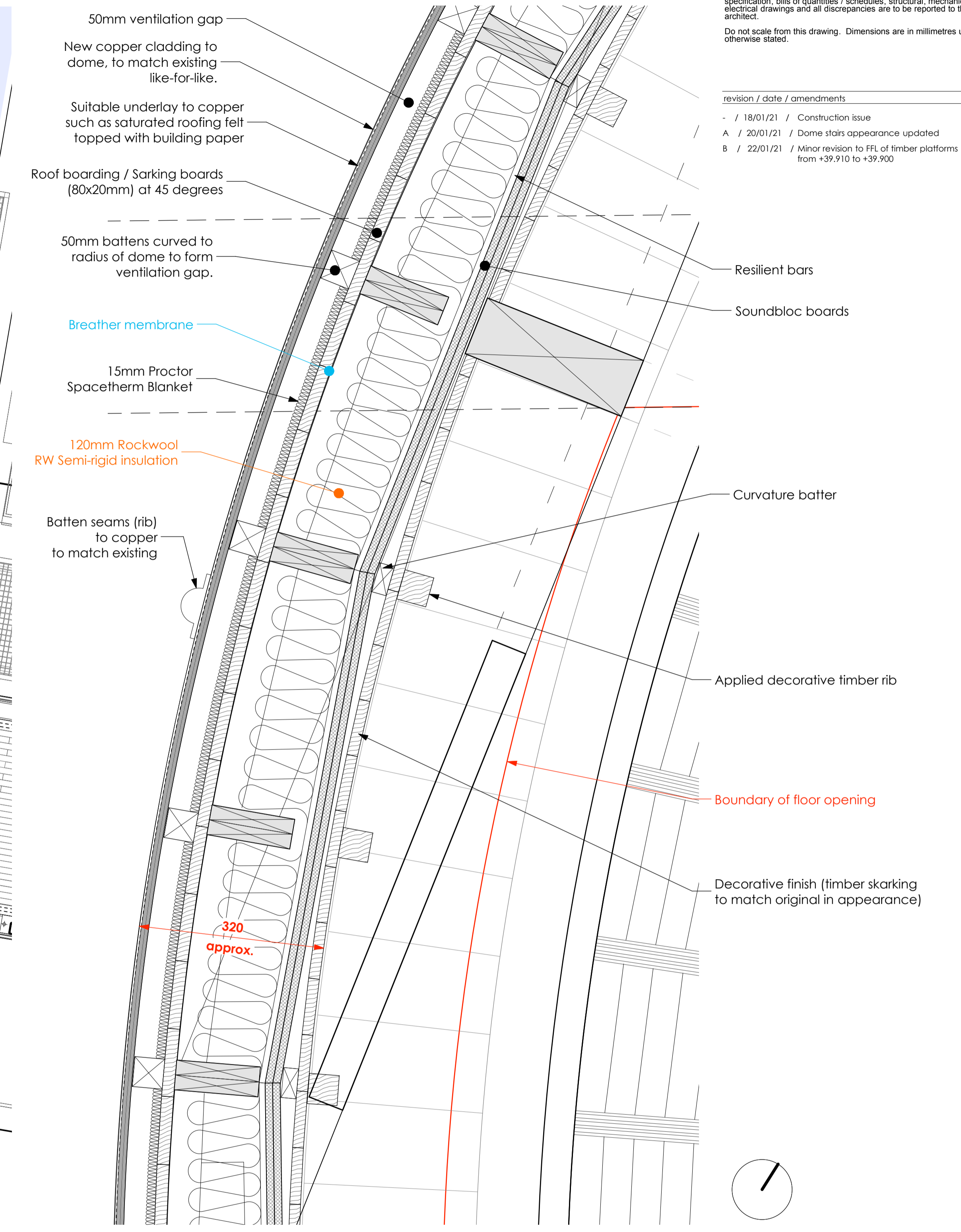
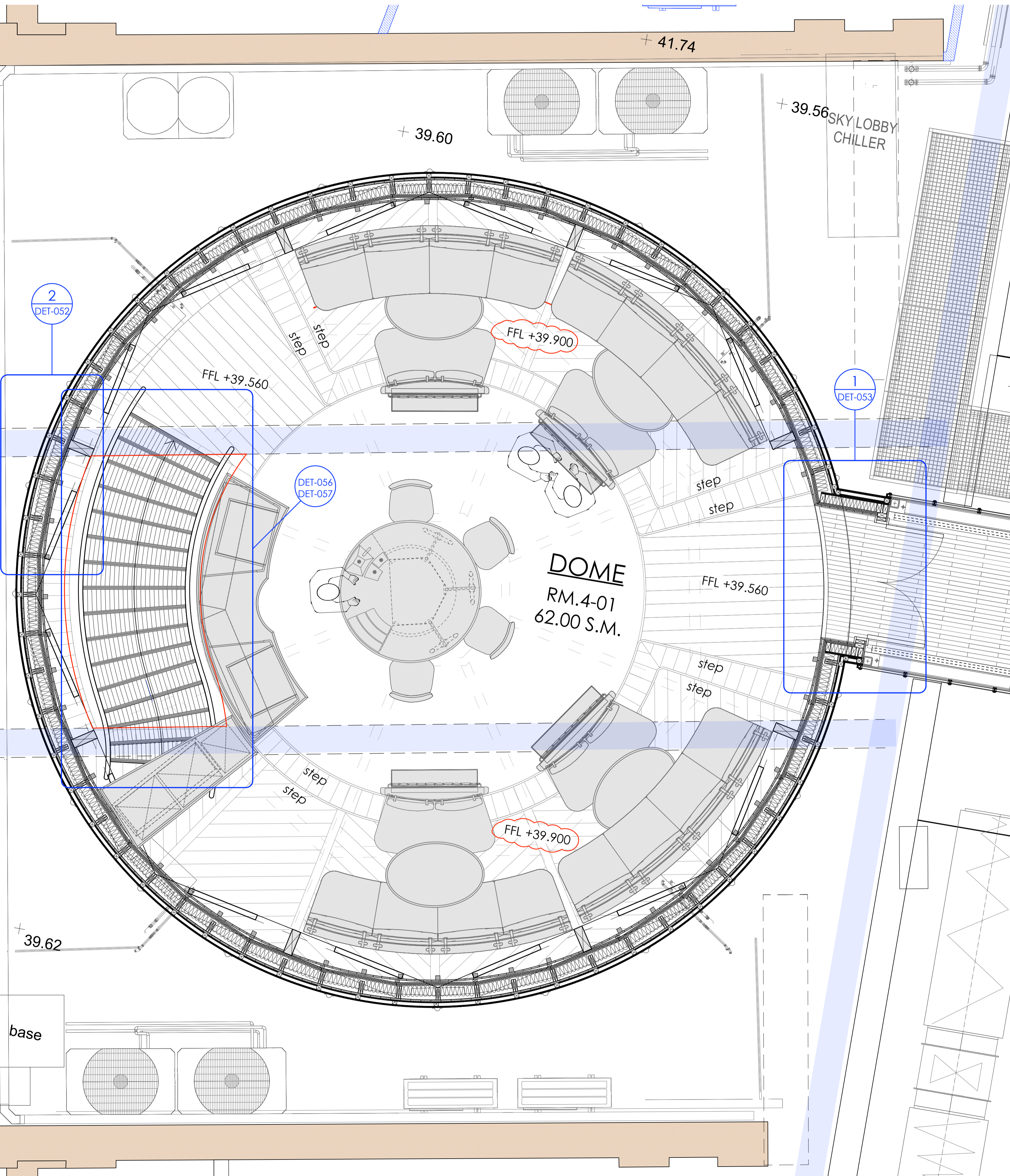
project title	KOKO + Hope & Anchor + Bayham Place Camden, London	
drawing title	scale	date
Dome copper cladding details in Section (sheet 1)	1:5	08.01.21
drawing number	drawn	checked
AHA/KKR/DET/051	PD	DA
	revision	
	B	

1. DOME PLAN
SCALE - 1:25

2. DOME DETAIL - IN PLAN
SCALE - 1:5

Copyright: All rights reserved. This drawing must not be reproduced without permission.
Only the original drawing should be relied upon. Contractors, subcontractors and suppliers must verify all dimensions on site before commencing any work or making any shop drawings.
All shop drawings to be submitted to the architect for comment prior to fabrication.
This drawing is to be read in conjunction with the Architect's specification, bills of quantities / schedules, structural, mechanical & electrical drawings and all discrepancies are to be reported to the architect.
Do not scale from this drawing. Dimensions are in millimetres unless otherwise stated.

revision / date / amendments
- / 18/01/21 / Construction issue
A / 20/01/21 / Dome stairs appearance updated
B / 22/01/21 / Minor revision to FFL of timber platforms from +39.910 to +39.900



NOTE:

- Timber trusses and sarking boards are to be treated for Class-0 Spread of Flame rating with a fire retardant coating for timber. This comprises of (Envirograv) 2 x coats q/vtr/c - clear fire rated. Clear fire rated coatings are applied opaque white and dry clear.

Contractor to test coating on sarking board for review prior to full application.

22.01.21

1:5

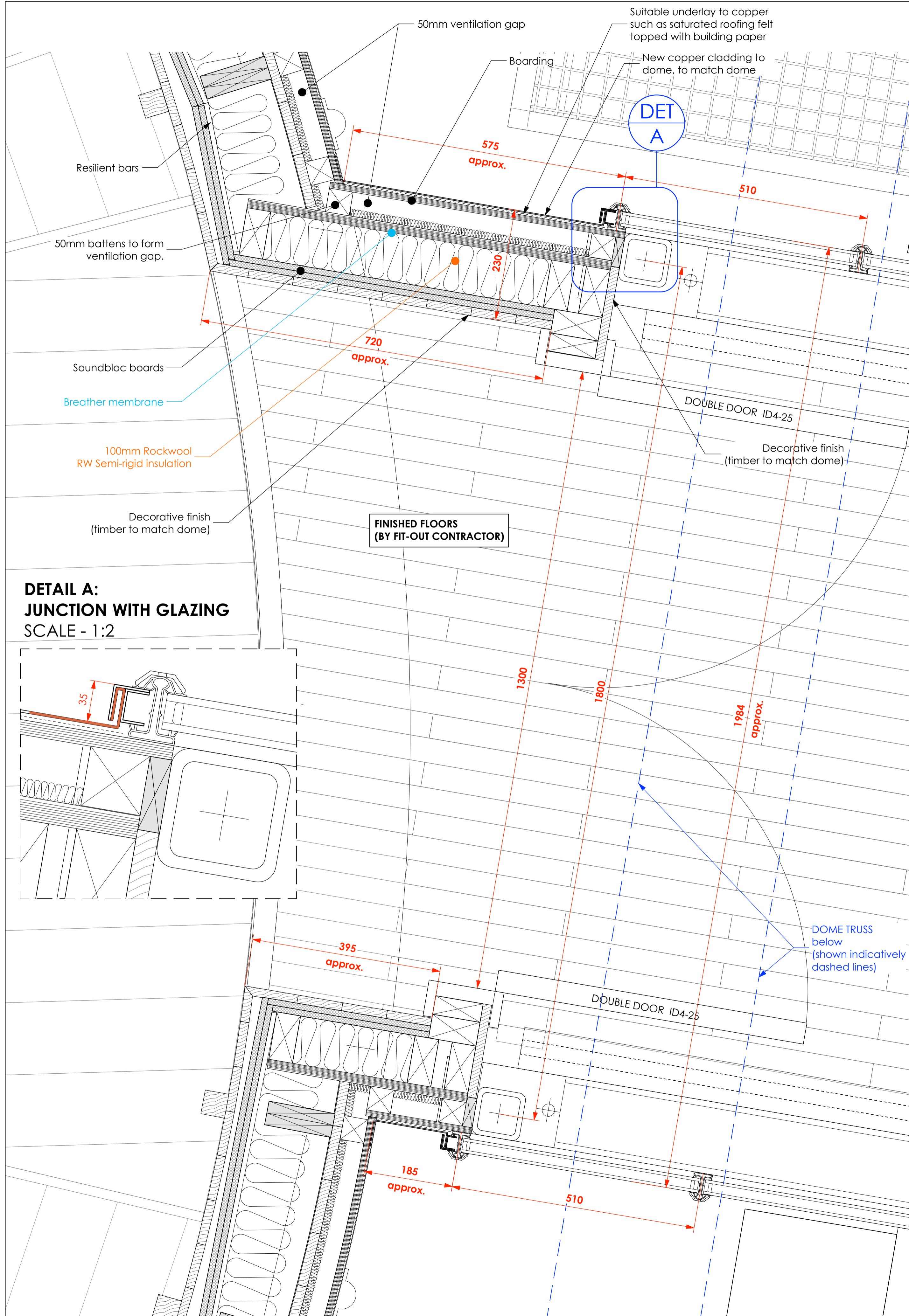
CONSTRUCTION
Archer Humphryes Architects

Basement
Central House
142 Central Street
London, United Kingdom
EC1V 8AR
T: +44 (0) 20 7251 8555

project title		KOKO + Hope & Anchor + Bayham Place Camden, London	
drawing title	scale	date	
Dome copper cladding details in Plan (sheet 2)	1:5	08.01.21	
drawing number	drawn	checked	DA
AHA/KKR/DET/052	PD	DA	
	revision		B

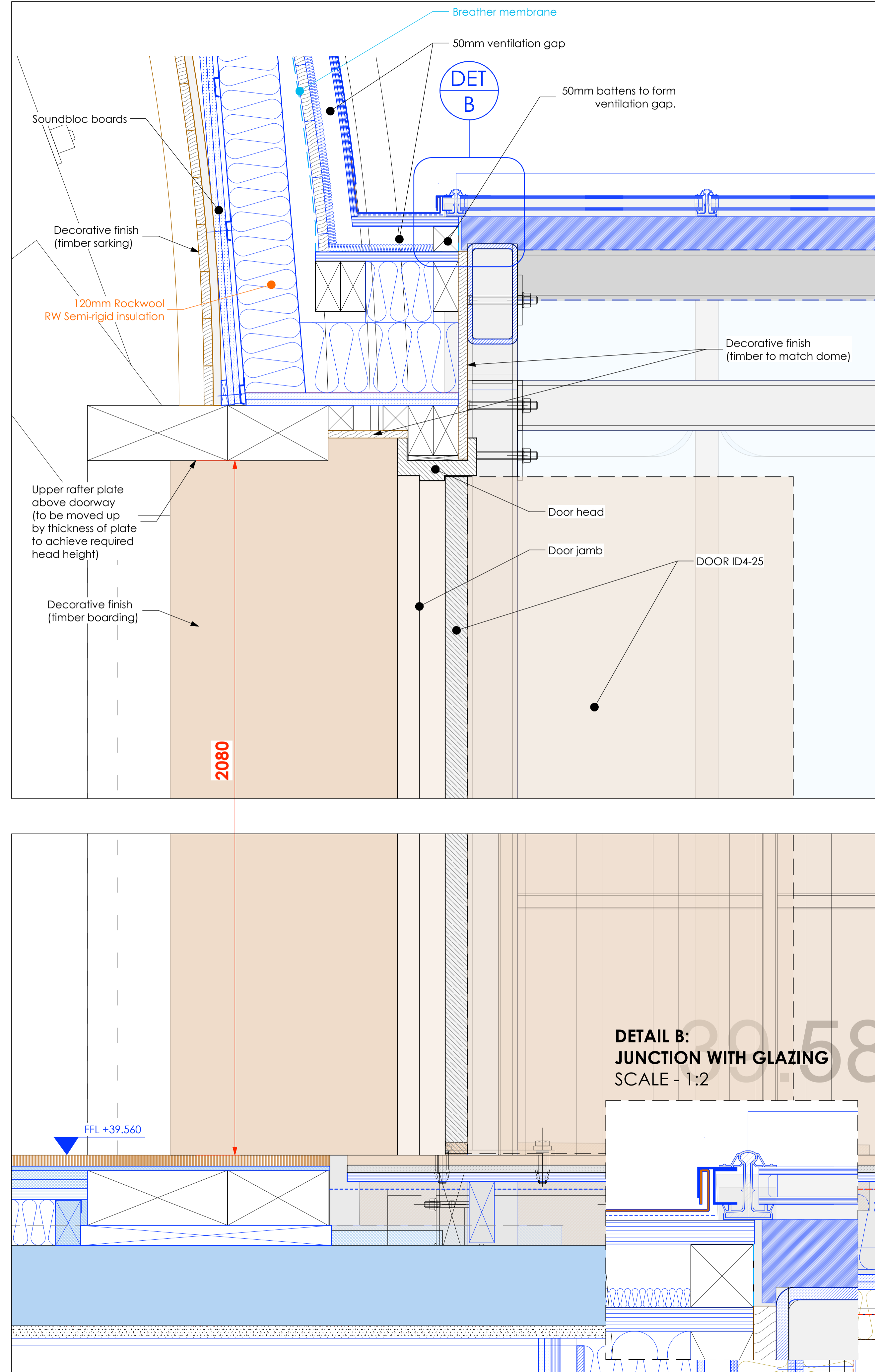
1. DETAIL IN PLAN - JUNCTION WITH WALKWAY

SCALE - 1:5



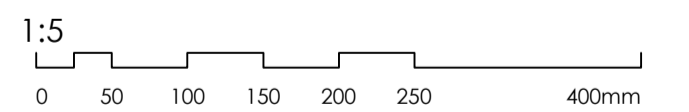
2. DETAIL IN SECTION - JUNCTION WITH WALKWAY

SCALE - 1:5



Copyright: All rights reserved. This drawing must not be reproduced without permission.
 Only the original drawing should be relied upon. Contractors, subcontractors and suppliers must verify all dimensions on site before commencing any work or making any shop drawings.
 All shop drawings to be submitted to the architect for comment prior to fabrication.
 This drawing is to be read in conjunction with the Architect's specification, bills of quantities / schedules, structural, mechanical & electrical drawings and all discrepancies are to be reported to the architect.
 Do not scale from this drawing. Dimensions are in millimetres unless otherwise stated.

revision / date / amendments
- / 18/01/21 / Construction issue

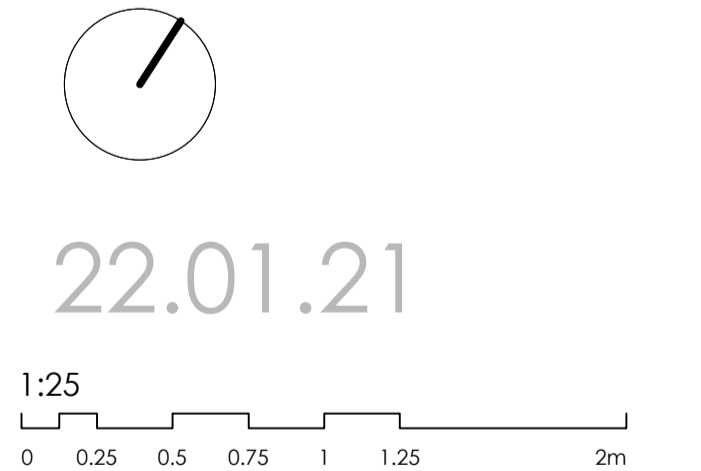
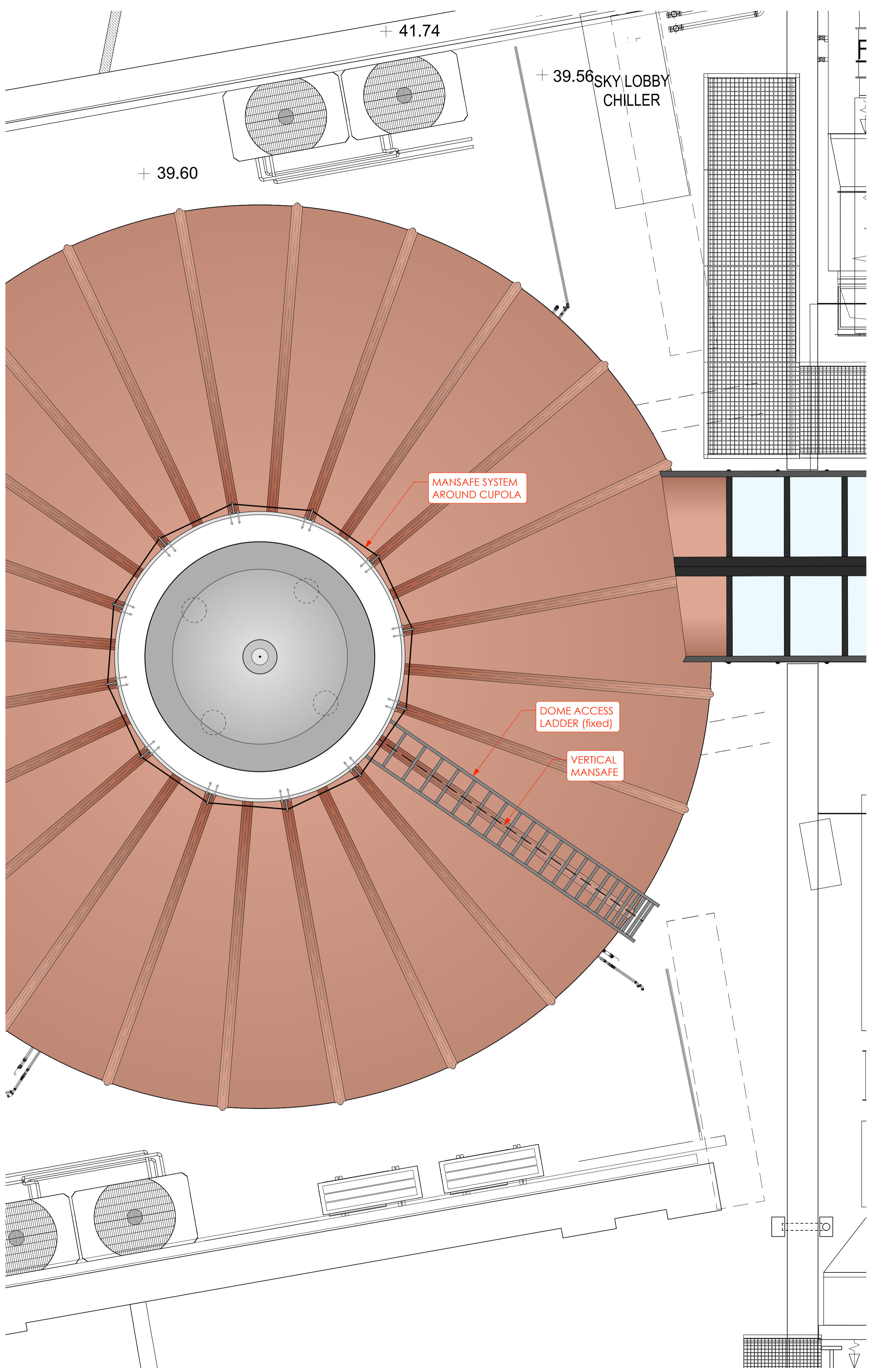
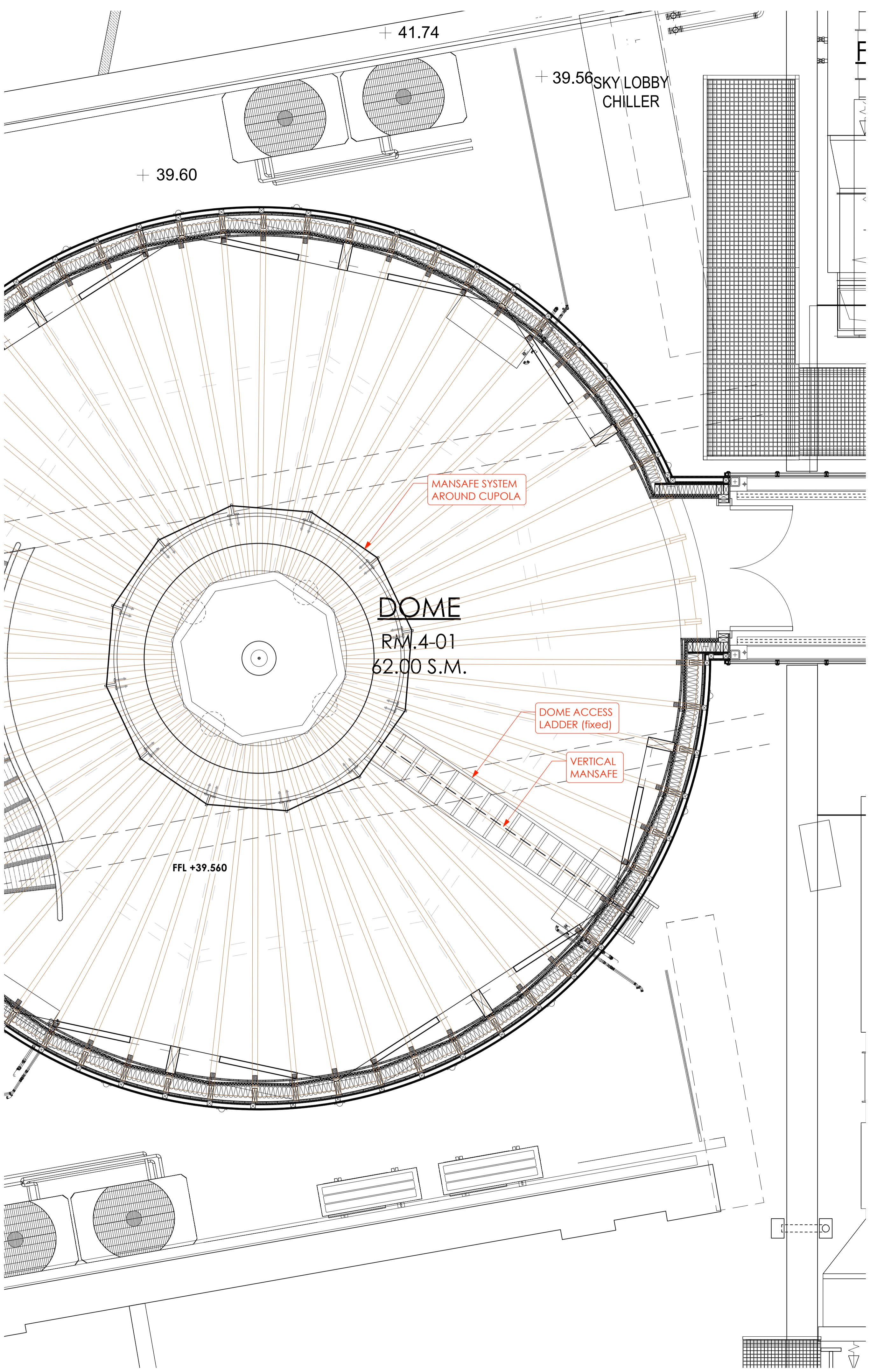


CONSTRUCTION
 Archer Humphryes Architects
 Basement
 Central House
 142 Central Street
 London, United Kingdom
 EC1V 8AR
 T: +44 (0) 20 7251 8555

project title	KOKO + Hope & Anchor + Bayham Place Camden, London
drawing title	Dome copper cladding details (sheet 3)
drawing number	AHA/KKR/DET/053
scale	1:5
date	08.01.21
drawn	PD
checked	DA
revision	-

Copyright: All rights reserved. This drawing must not be reproduced without permission.
 Only the original drawing should be relied upon. Contractors, subcontractors and suppliers must verify all dimensions on site before commencing any work or making any shop drawings.
 All shop drawings to be submitted to the architect for comment prior to fabrication.
 This drawing is to be read in conjunction with the Architect's specification, bills of quantities / schedules, structural, mechanical & electrical drawings and all discrepancies are to be reported to the architect.
 Do not scale from this drawing. Dimensions are in millimetres unless otherwise stated.

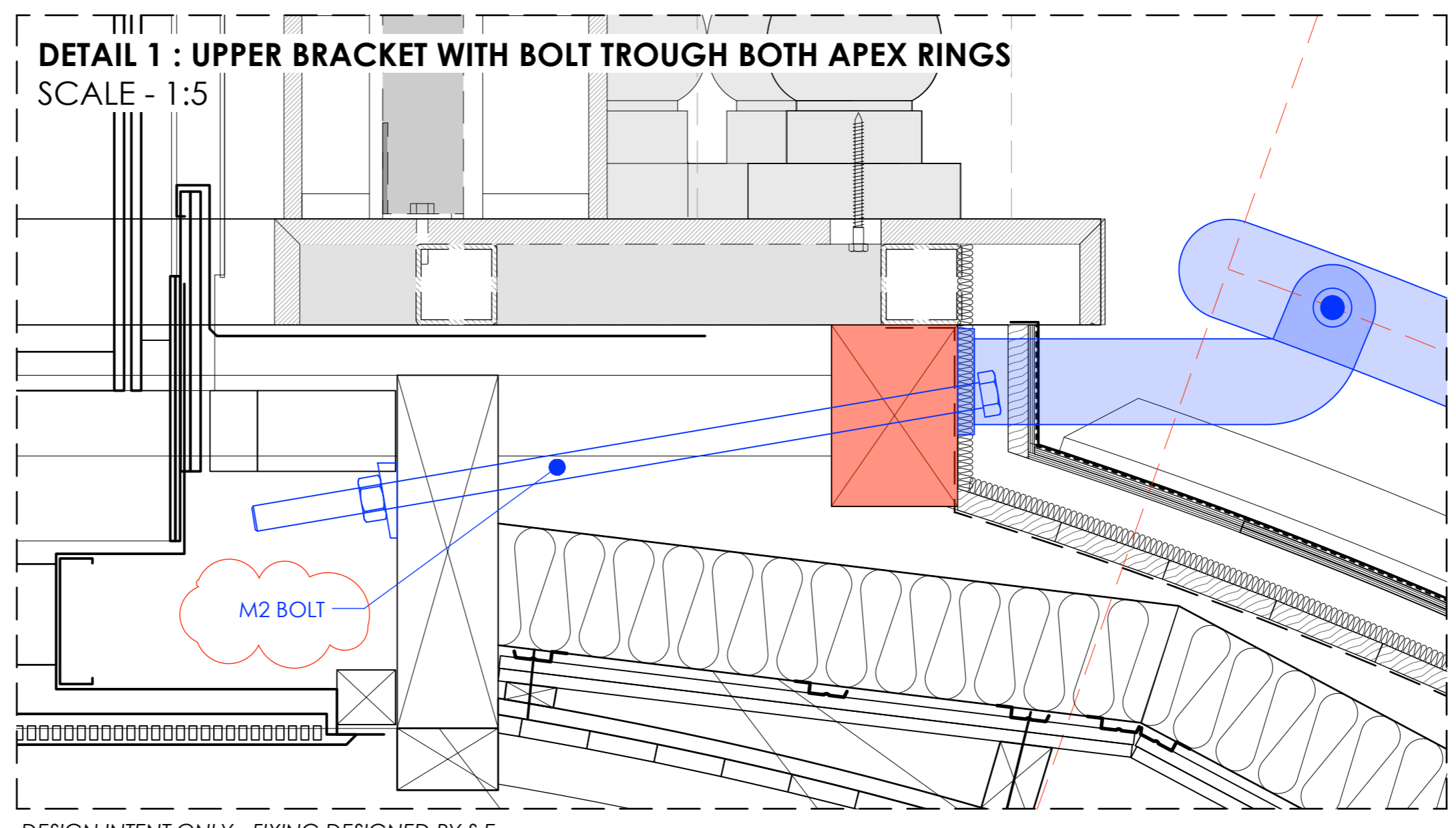
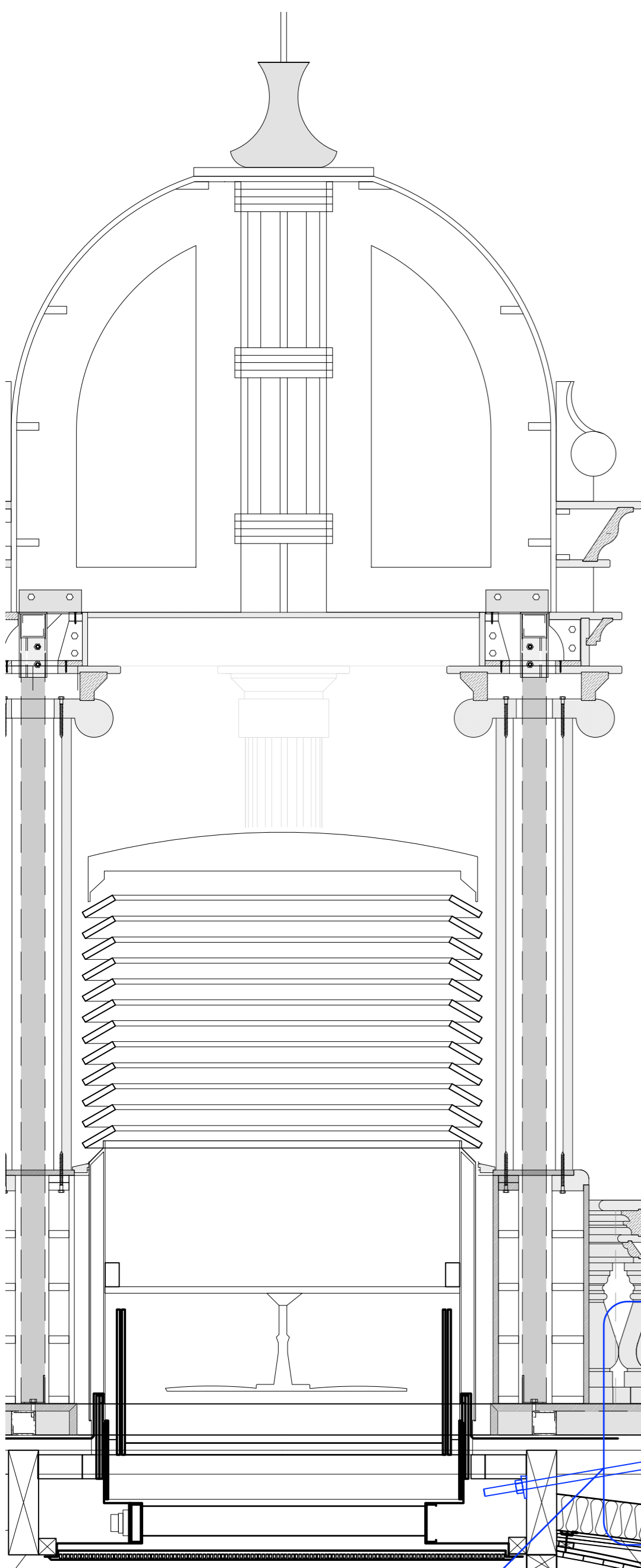
revision / date / amendments
 - / 18/01/21 / Construction issue



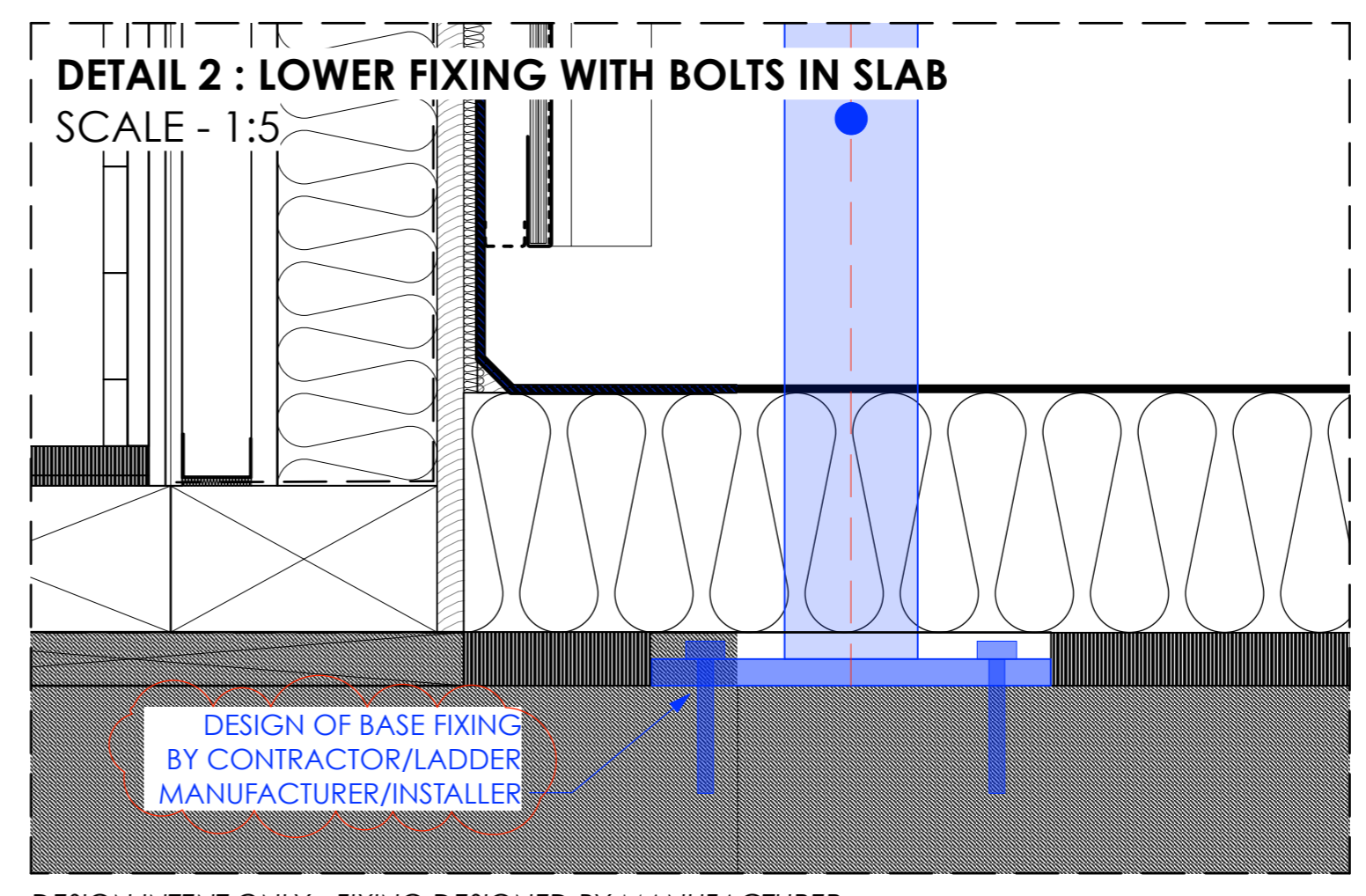
22.01.21
 CONSTRUCTION
 Archer Humphryes Architects

Basement
 Central House
 142 Central Street
 London, United Kingdom
 EC1V 8AR
 T: +44 (0) 20 7251 8555

project title			
KOKO + Hope & Anchor + Bayham Place Camden, London			
drawing title	scale	date	
Dome ladder details (sheet 1)	1:25 @A1	drawn	13.01.21
drawing number	revision	checked	DA
AHA/KKR/DEI/054	-	PD	



DESIGN INTENT ONLY - FIXING DESIGNED BY S.E.



DESIGN INTENT ONLY - FIXING DESIGNED BY MANUFACTURER

1
DET-055

Dome Bar
RM.4.02

2
DET-055

FFL +39.560

Copyright: All rights reserved. This drawing must not be reproduced without permission.

Only the original drawing should be relied upon. Contractors, subcontractors and suppliers must verify all dimensions on site before commencing any work or making any shop drawings.

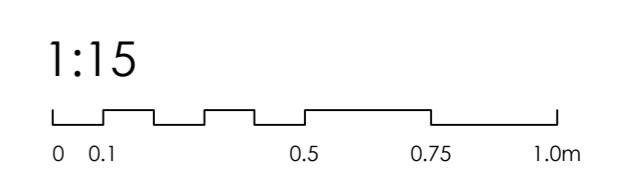
All shop drawings to be submitted to the architect for comment prior to fabrication.

This drawing is to be read in conjunction with the Architect's specification, bills of quantities / schedules, structural, mechanical & electrical drawings and all discrepancies are to be reported to the architect.

Do not scale from this drawing. Dimensions are in millimetres unless otherwise stated.

revision	date	amendments
-	/ 18/01/21 /	Construction issue.
A	/ 20/01/21 /	Fixing annotations added following comments by SE.

22.01.21



CONSTRUCTION
Archer Humphreys Architects

Basement
Central House
142 Central Street
London, United Kingdom
EC1V 8AR
T: +44 (0) 20 7251 8555

project title		scale	date
KOKO + Hope & Anchor + Bayham Place Camden, London		1:15 @A1	08.01.21
drawing title	drawn	checked	
Dome ladder details (sheet 2)	PD	DA	
drawing number	revision		
AHA/ KKR /DET/055	A		