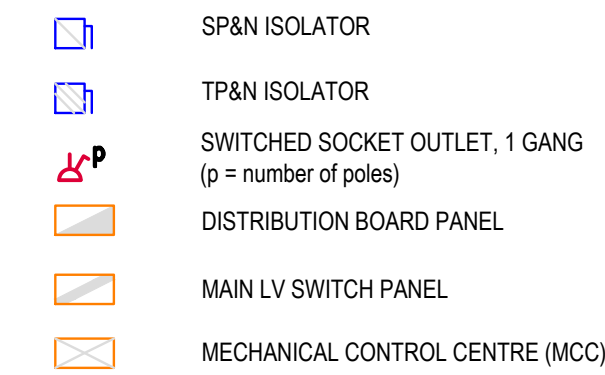




NOTE:
ALL CABLE TRAYS TO RUN
WITHIN THE EXISTING CEILING VOID

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CONSTRUCTION.

INSTALLATION WILL REQUIRE WORKING AT HEIGHT AND IN SMALL VOIDS

MAINTENANCE/CLEANING/OPERATION.

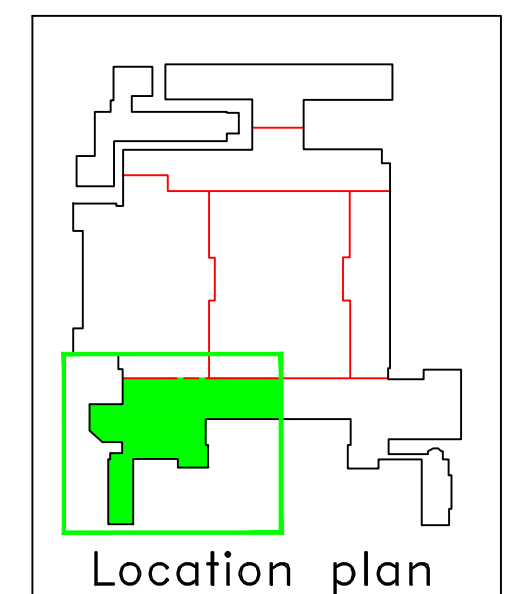
MAINTENANCE WILL REQUIRE WORKING AT HEIGHT AND IN SMALL VOIDS

DECOMMISSIONING/DEMOLITION

EXISTING STANDS ARE LIKELY TO CONTAIN ASBESTOS. REFER TO ASBESTOS REGISTER. GROUND CONTAMINATION SURVEY HAS BEEN UNDERTAKEN. REFER TO SURVEY FOR FURTHER INFORMATION.

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9. THE PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT TECHNICAL SPECIFICATIONS.
10. WHERE MECHANICAL SERVICES PASS THROUGH FIRE COMPARTMENTATION CEILING VOIDS, FLOOR VOIDS AND STRUCTURAL WALLS THE CONTRACTOR SHALL SLEEVE/SEAL THE OPENING WITH AN ACOUSTIC AND FIRE SEALANT APPROVED BY THE BRITISH MUSEUMS' FRAMEWORK FIRE CONSULTANT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE BRITISH MUSEUMS UP TO DATE FIRE COMPARTMENTATION DRAWINGS.



01	FOR TENDER	04.12.20	CC	AH
00	FOR COMMENTS	18.11.20	CC	AH
Rev	Description	Date	Drn	Ch'd

TENDER

Status of drawing

BUROHAPPOLD
ENGINEERING

Architect	N/A
Project	British Museum - Pizzeria Ventilation
Dwg Title	SMALL POWER LAYOUT

Scales@A1 1:50	Job No. 0045387
Drawn by CC	Drawing No.
Checked by AH	BM_BHE_00_03_DR_E_1000
Date 04.12.2020	Rev 01



Notes

01	FOR TENDER	04.12.20	CC	AH
00	FOR COMMENTS	18.11.20	CC	AH
Rev	Description	Date	Drm	Ch'd

TENDER

Status of drawing

BUROHAPPOLD
ENGINEERING

Scales@A1 N.T.S.	Job No. 0045387
Drawn by CC	Drawing No.
Checked by AH	BM_BHE_XX_XX_DR_E_3000
Date 04.12.2020	Rev 01

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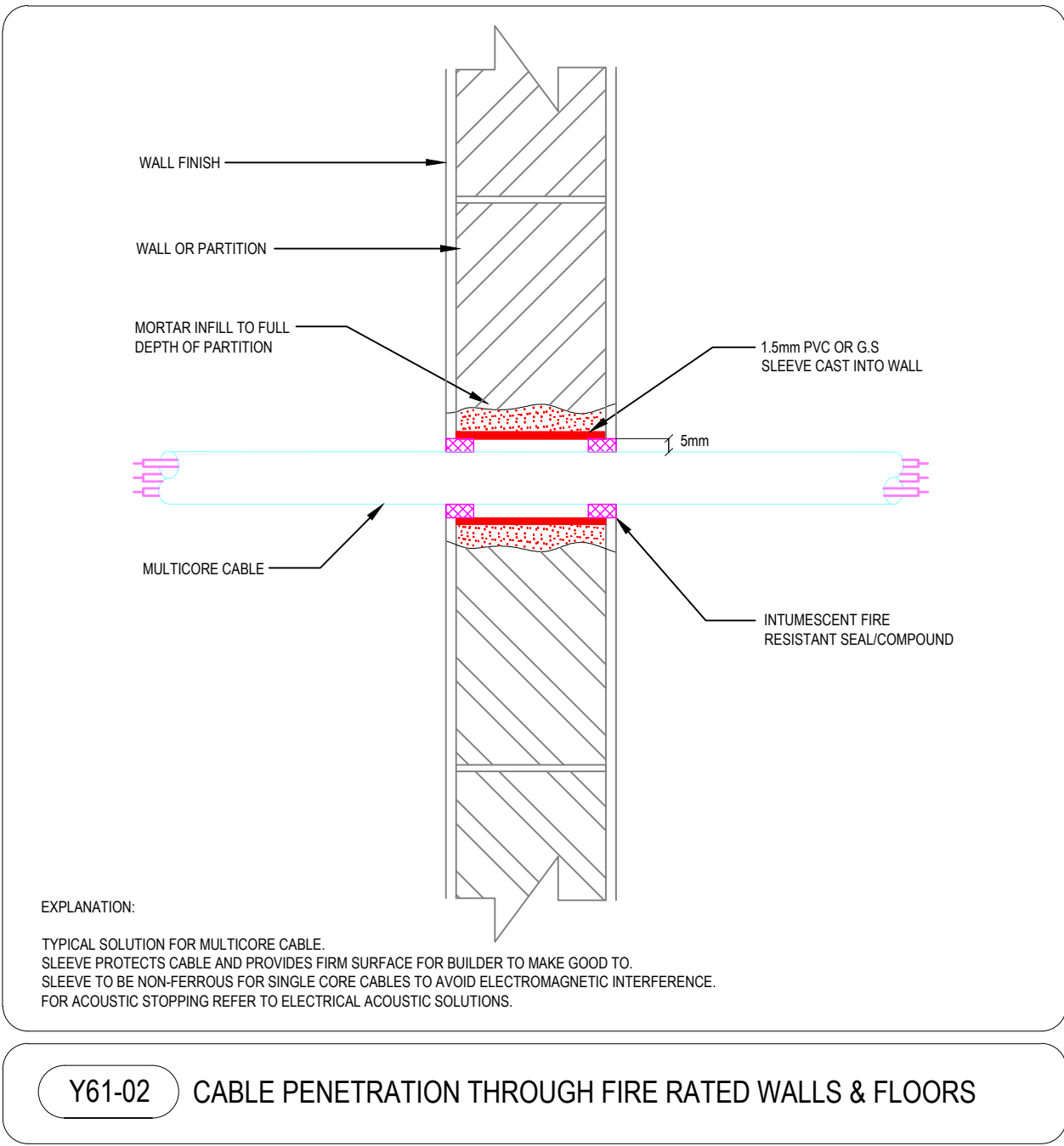
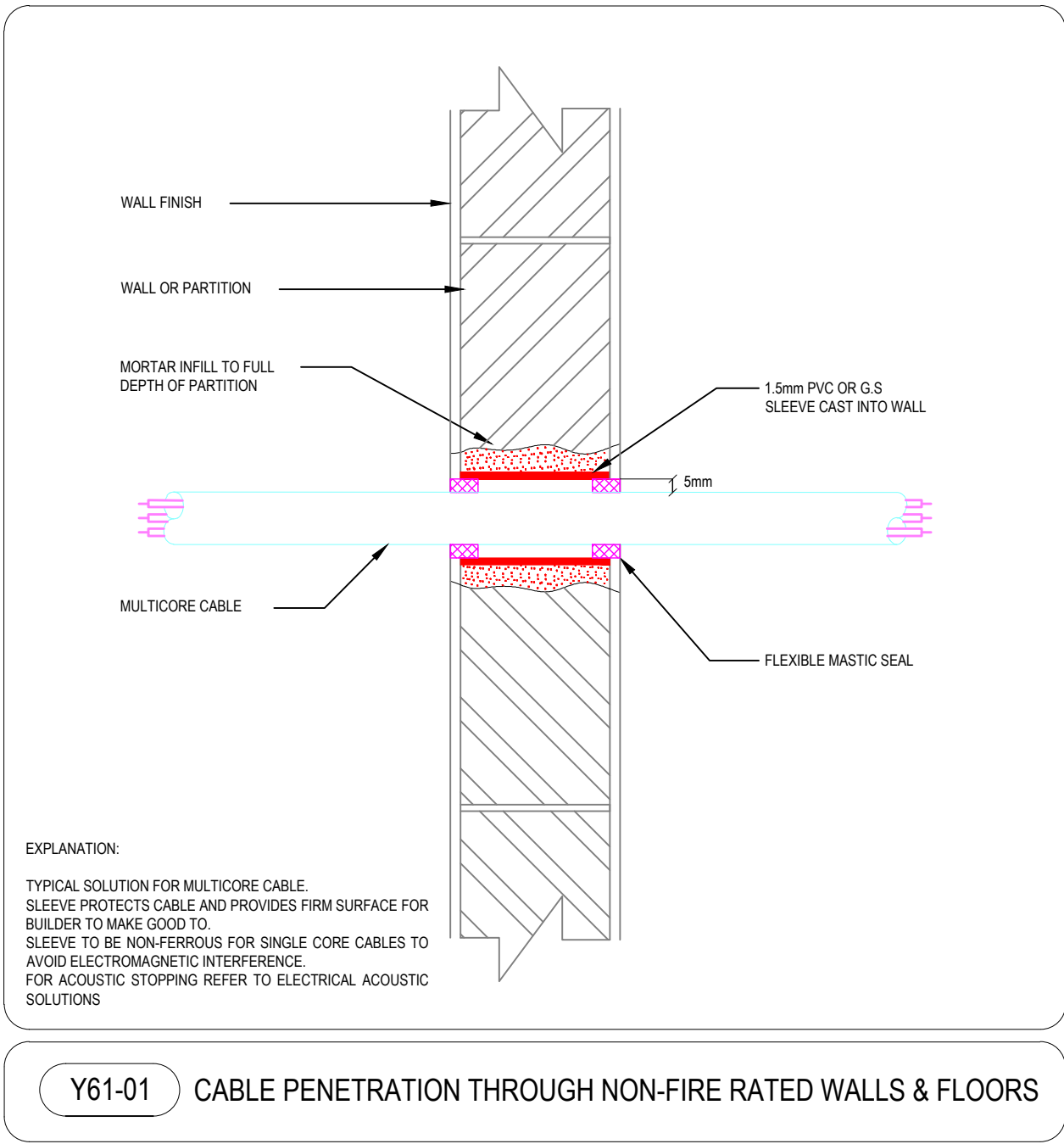
SAFETY HEALTH AND ENVIRONMENTAL INFORMATION
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MAINTENANCE/CLEANING/OPERATION
MAINTENANCE WILL REQUIRE WORKING AT HEIGHT AND IN SMALL VOIDS

DECOMMISSIONING/DEMOLITION
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Notes



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00	FOR COMMENTS	18.11.20	CC	AH
Rev	Description	Date	Drn	Chd

TENDER

Status of drawing

**BURO HAPPOLD
ENGINEERING**

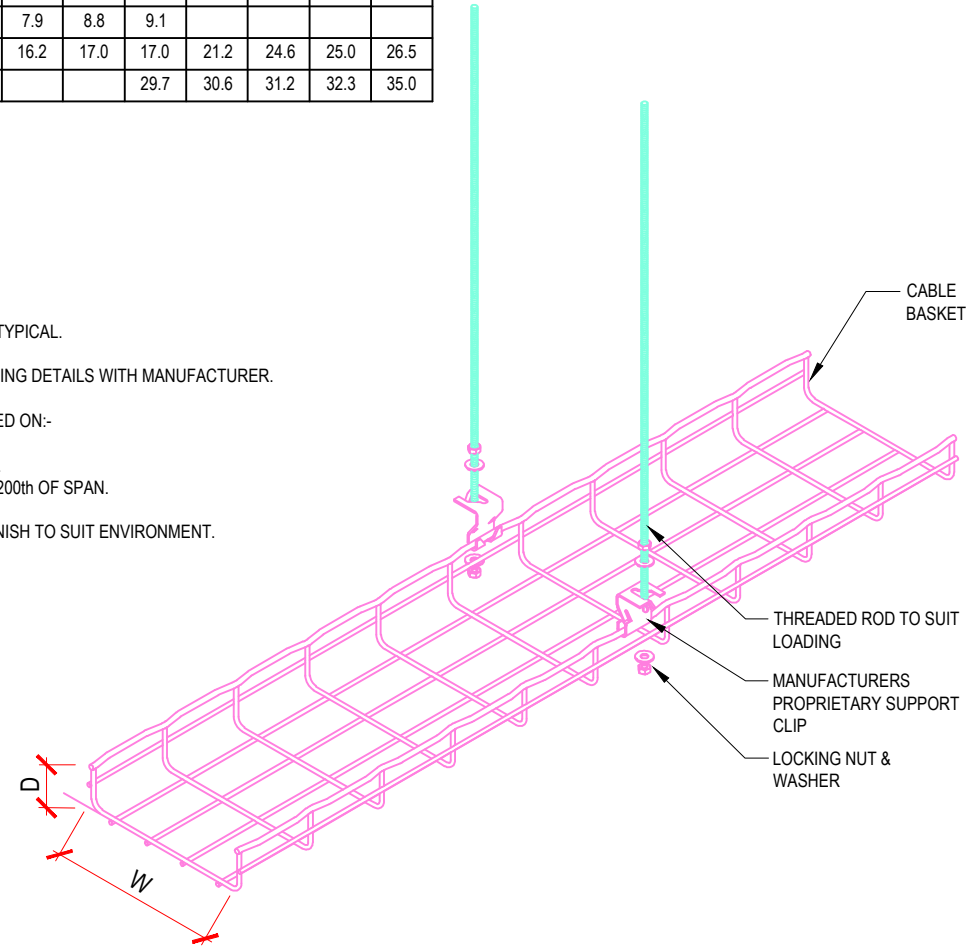
Architect N/A
Project British Museum - Pizzeria Ventilation
Drg Title PENETRATION DETAILS SHEET 2

Scales@A1 N.T.S.	Job No. 0045387
Drawn by CC	Drawing No. BM_BHE_XX_XX_DR_E_3001
Checked by AH	Rev -01
Date 04.12.2020	

F:\Buro Happold\Projects\British Museum\0045387\British Museum - Pizzeria Ventilation\Drawings\Penetration Details\Penetration Details Sheet 2.dwg

CABLE BASKET DIMENSION AND SWL									
	WIDTH W DEPTH D	100mm	150mm	200mm	300mm	400mm	500mm	600mm	
		Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	
WIRE DIAMETER	mm	4	4	4	5	5	5	5	
LIGHT DUTY	35mm	7.9	8.8	9.1					
MEDIUM DUTY	60mm	16.2	17.0	17.0	21.2	24.6	25.0	26.5	
HEAVY DUTY					29.7	30.6	31.2	32.3	35.0

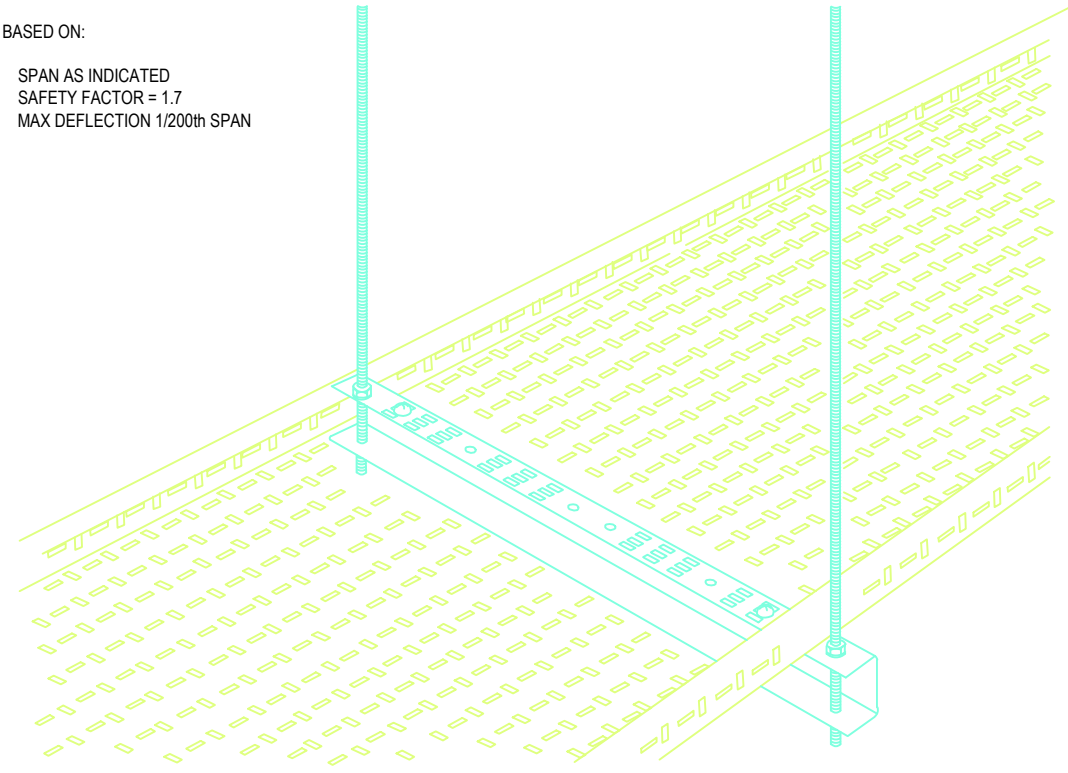
- NOTES:
- THESE DETAILS ARE TYPICAL.
 - CHECK ACTUAL LOADING DETAILS WITH MANUFACTURER.
 - IN TABLE SWL IS BASED ON:
A) 1.5m SPAN
B) SAFETY FACTOR= 1.7
C) MAX DEFLECTION= 1/200th OF SPAN.
 - SELECT MATERIAL FINISH TO SUIT ENVIRONMENT.



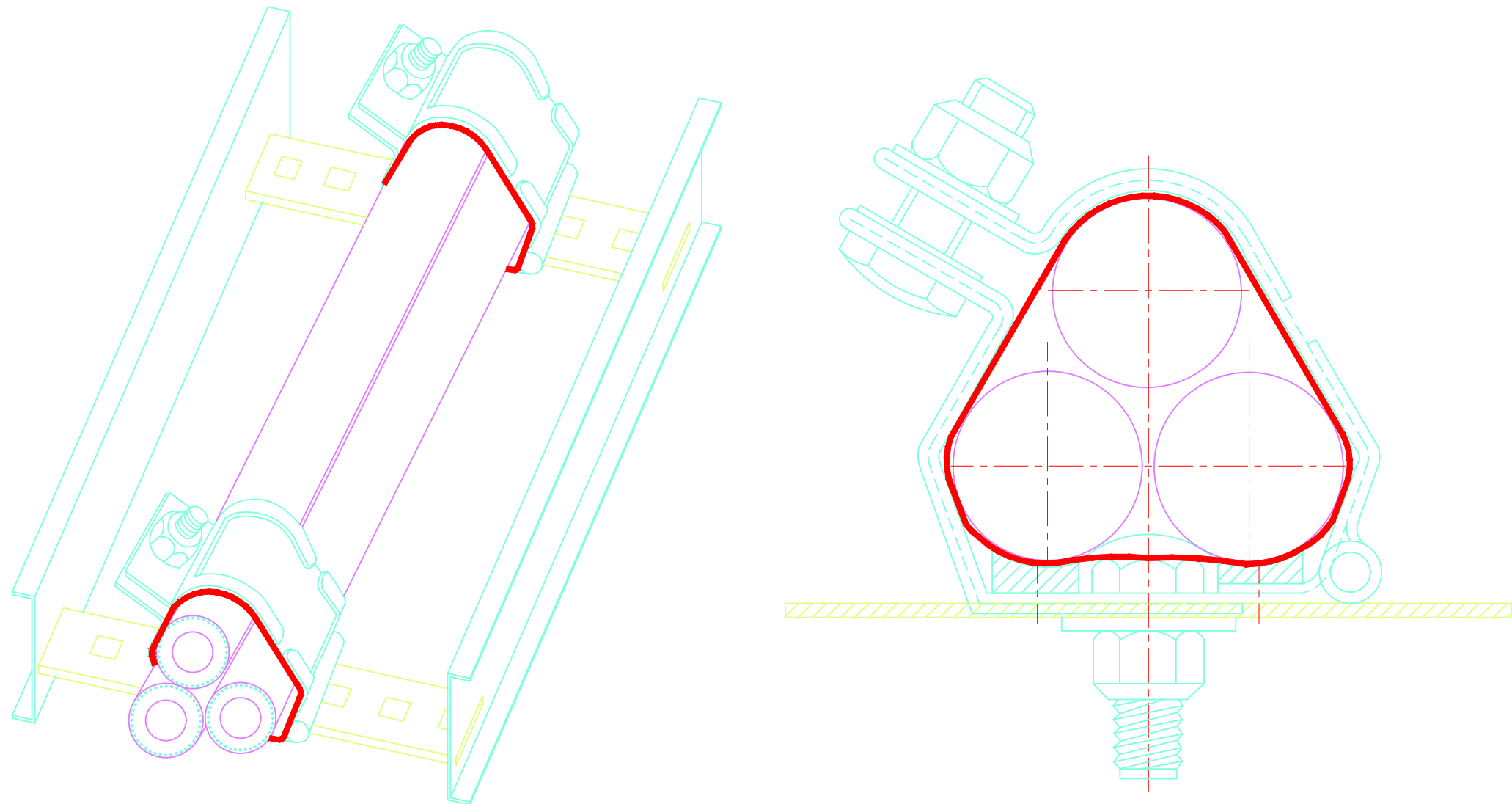
Y63-2 CABLE BASKET SUPPORT

PERFORATED CABLE TRAY DIMENSIONS AND SWL												
	SWL DEPTH D	SPAN	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m
			M	50	75	100	150	225	300	450	600	900
LIGHT DUTY	12mm	1.0	10	10	10	10	10					
LIGHT DUTY	18mm	1.5						20				
MEDIUM DUTY	25mm	2.0	18	18	18	18	25	30	30	50	50	60
HEAVY DUTY	50mm	2.0		50	50	50	80	90	110	130	140	150

- NOTES:
- SWL BASED ON:
- SPAN AS INDICATED
 - SAFETY FACTOR= 1.7
 - MAX DEFLECTION 1/200th SPAN

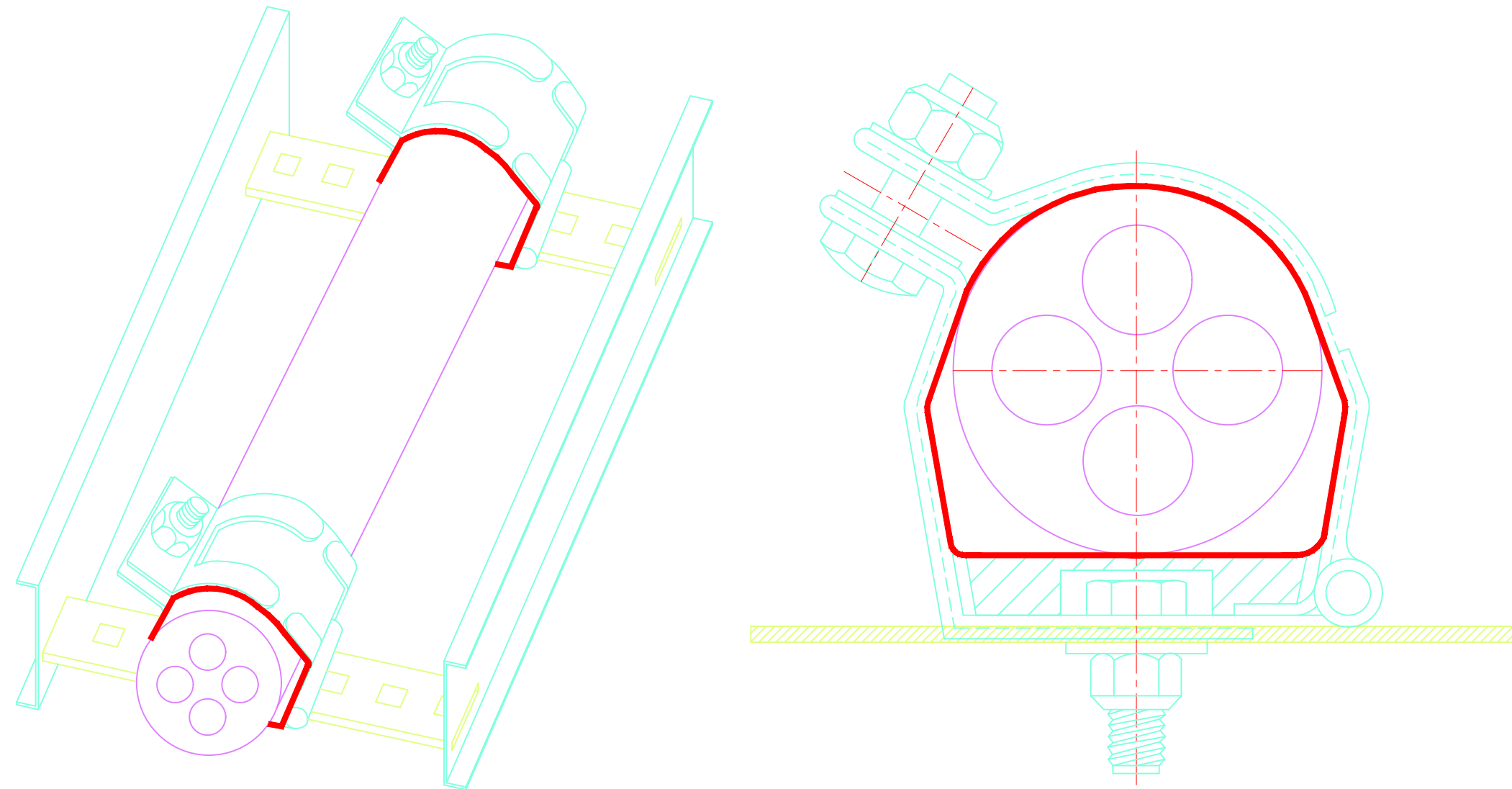


Y63-3 PERFORATED CABLE TRAY SUPPORT



SUITABLE CABLE DIA. (mm)	DIMENSION (mm)	
13-23	74	66
21-25	77	70
23-29	81	78
25-31	84	81
27-33	86	83
29-35	90	89
32-38	94	95
35-41.5	98	100
38-44.5	101	104
42-48	105	111
45-51	109	117
47-53	111	120
49-55	114	124
51-57	116	127
53-59	119	133
55-61	124	137
57-63	126	140
59-65	128	144
61-67	131	151
63-69	133	156
65-71	135	161
67-73	138	166
69-75	140	171
71-77	142	176

Y63-4 TREFOIL CABLE CLEAT FORMATION SECTION & 3D VIEW



SUITABLE CABLE DIA. (mm)	DIMENSION (mm)	
28-32	61	55
30-34	63	57
32-36	65	61
34-38	67	63
36-40	71	65
38-42	69	67
40-44	71	69
42-46	72	71
44-48	74	73
46-50	75	75
48-52	77	77
50-54	79	79
52-56	80	81
54-58	81	83
56-60	83	85
58-62	85	87
60-64	86	89
62-66	90	91
64-68	91	93
66-70	93	95
68-72	95	97
70-74	97	99
72-76	98	101
74-78	100	103

Y63-5 SINGLE CABLE CLEAT FORMATION SECTION & 3D VIEW

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MAINTENANCE/CLEANING/OPERATION

MAINTENANCE WILL REQUIRE WORKING AT HEIGHT AND IN SMALL VOIDS

DECOMMISSIONING/DEMOLITION

EXISTING STANDS ARE LIKELY TO CONTAIN ASBESTOS. REFER TO ASBESTOS REGISTER. GROUND CONTAMINATION SURVEY HAS BEEN UNDERTAKEN. REFER TO SURVEY FOR FURTHER INFORMATION.

Notes

- SELECT MATERIALS IN ACCORDANCE WITH Y-63 AND CORROSION RESISTANCE.**
- CHECK WITH SAFE WORKING LOADS (SWL) WITH PARTICULAR MANUFACTURER.**
- SWL IN TABLES ARE ALL UNIFORMLY DISTRIBUTED. CHECK POINT LOADS WITH TRAY/LADDER MANUFACTURER.**
- ALLOW FOR ALL POSSIBLE LOADS AS Y-63.**
- INCORPORATE EXPANSION JOINTS AT BUILDING MOVEMENT JOINTS OR TO ACCOMMODATE THERMAL MOVEMENTS.**

01	FOR TENDER	04.12.20	CC	AH
00	FOR COMMENTS	18.11.20	CC	AH
Rev	Description	Date	Dm	Ch'd

TENDER

Status of drawing

BUROHAPPOLD ENGINEERING

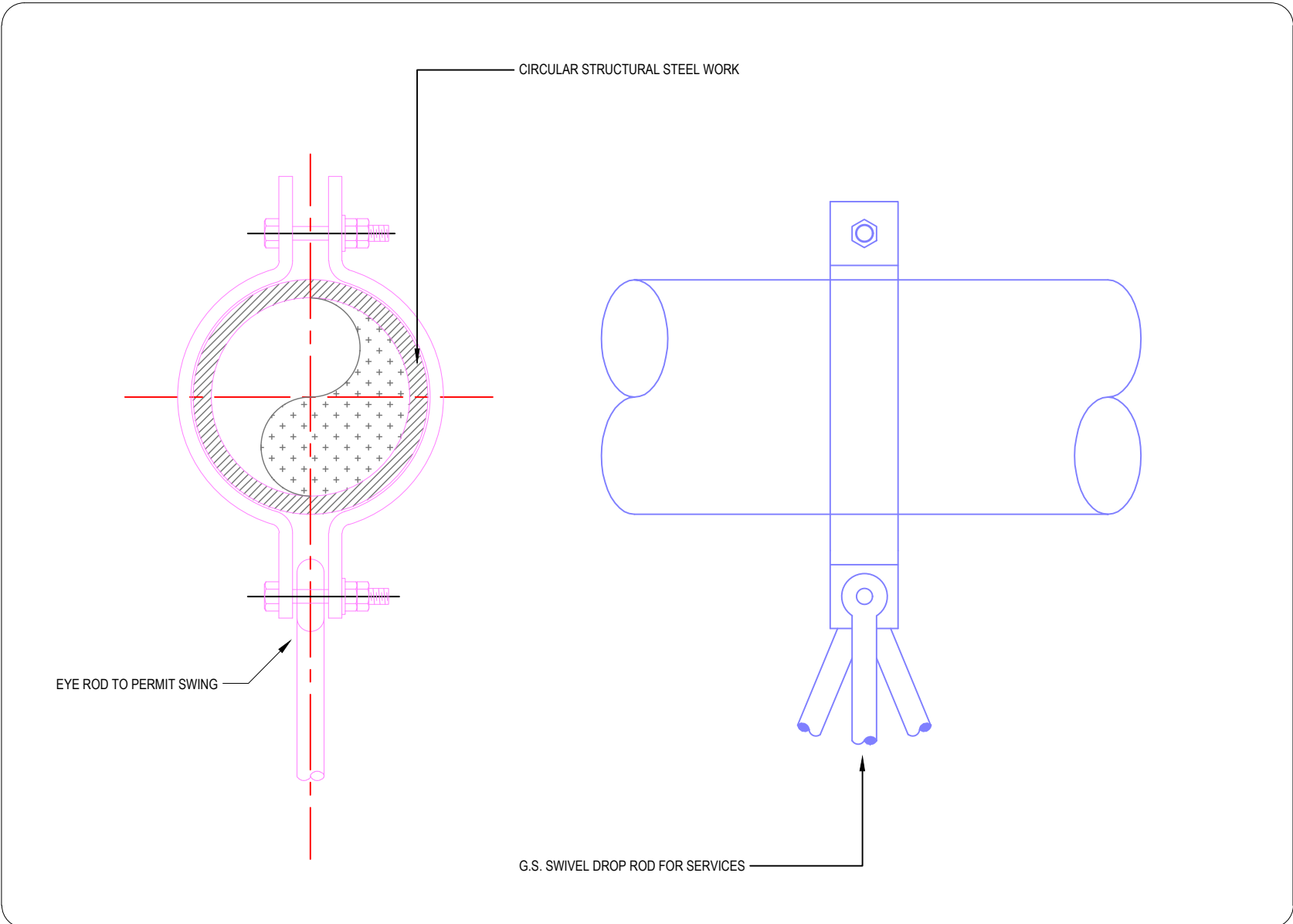
Architect N/A

Project British Museum - Pizzeria Ventilation

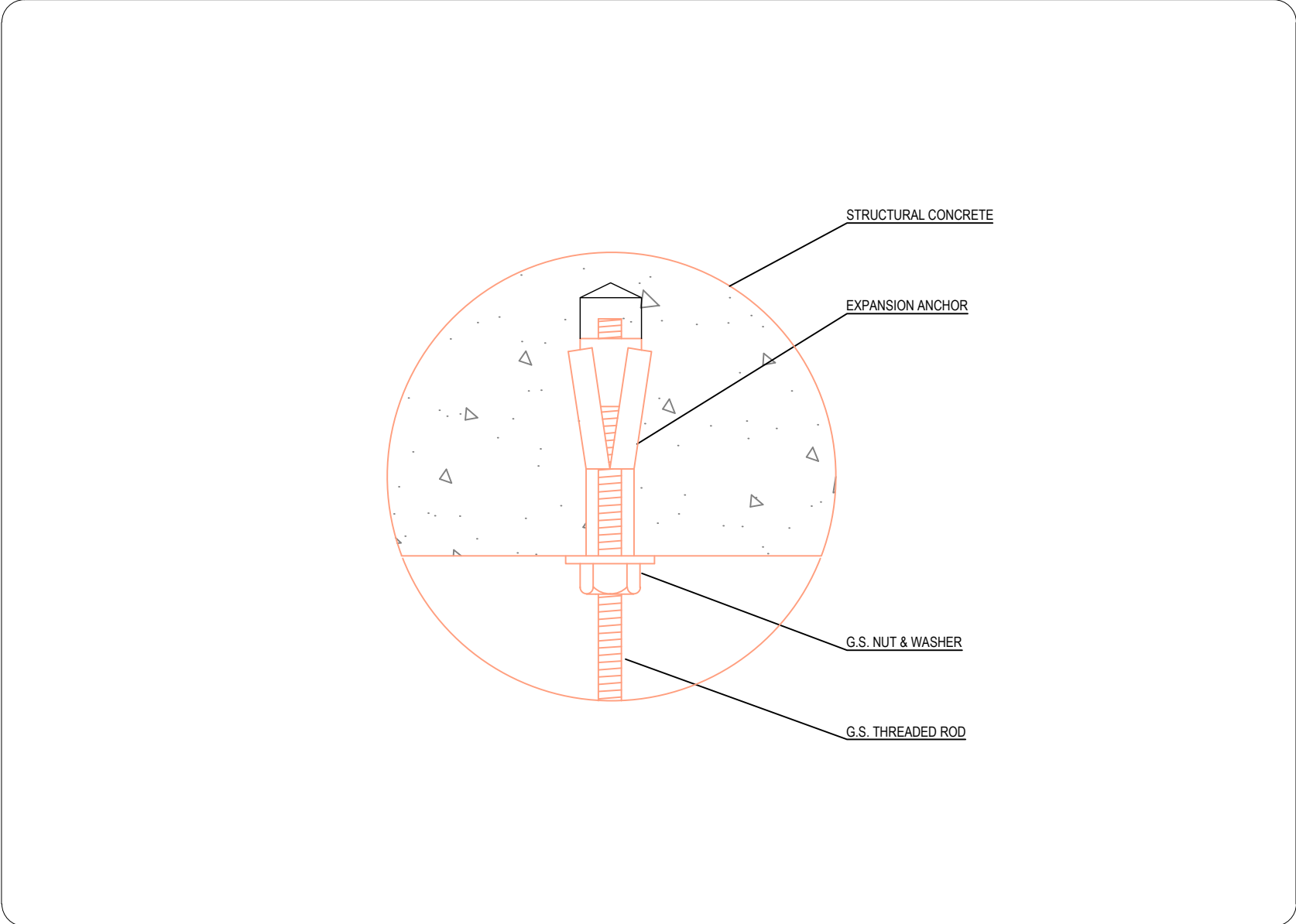
Dwg Title PENETRATION DETAILS SHEET 2

Scales@A1 N.T.S.	Job No. 0045387
Drawn by CC	Drawing No. BM_BHE_XX_XX_DR_E_3001
Checked by AH	Rev 01
Date 04.12.2020	

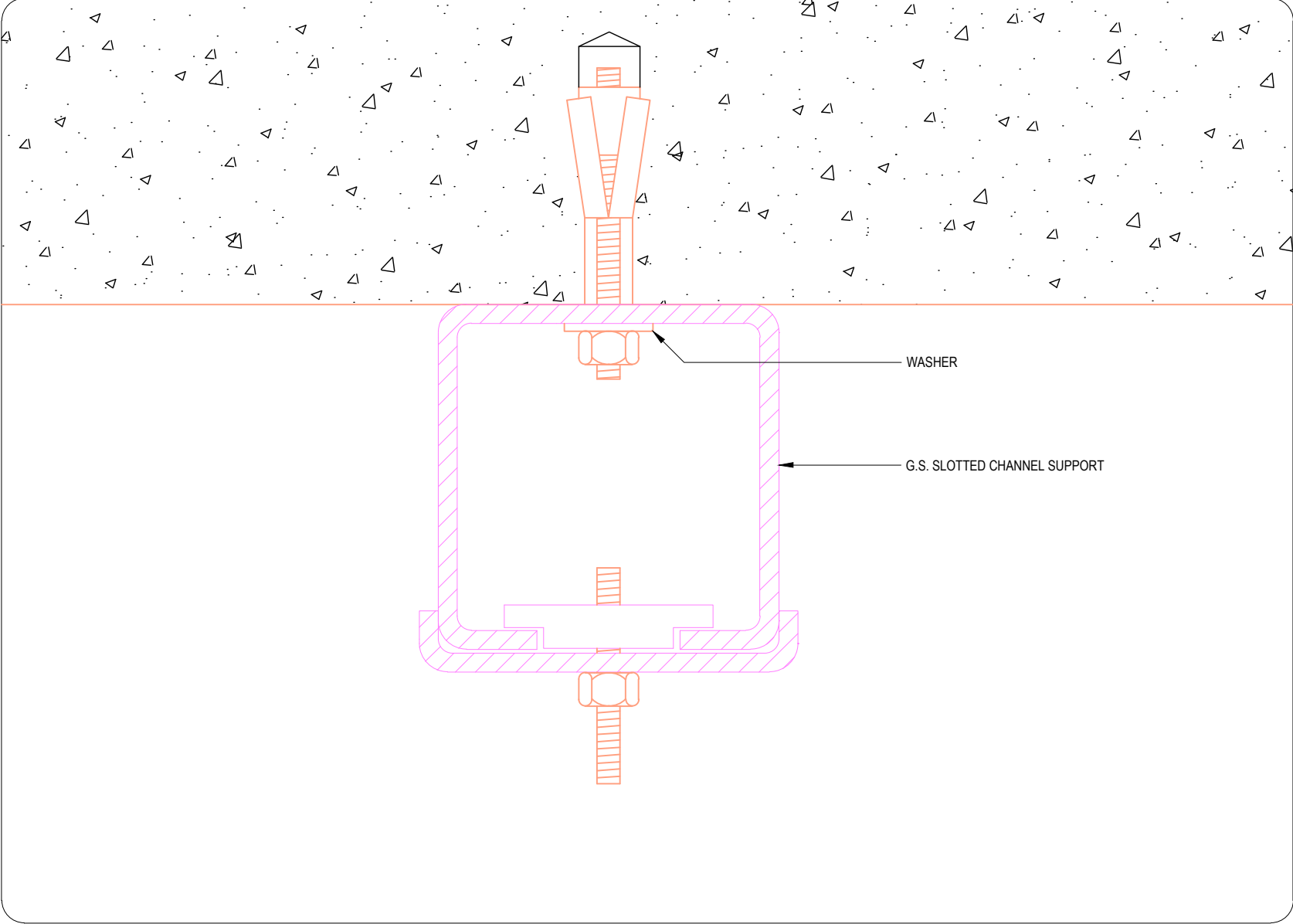
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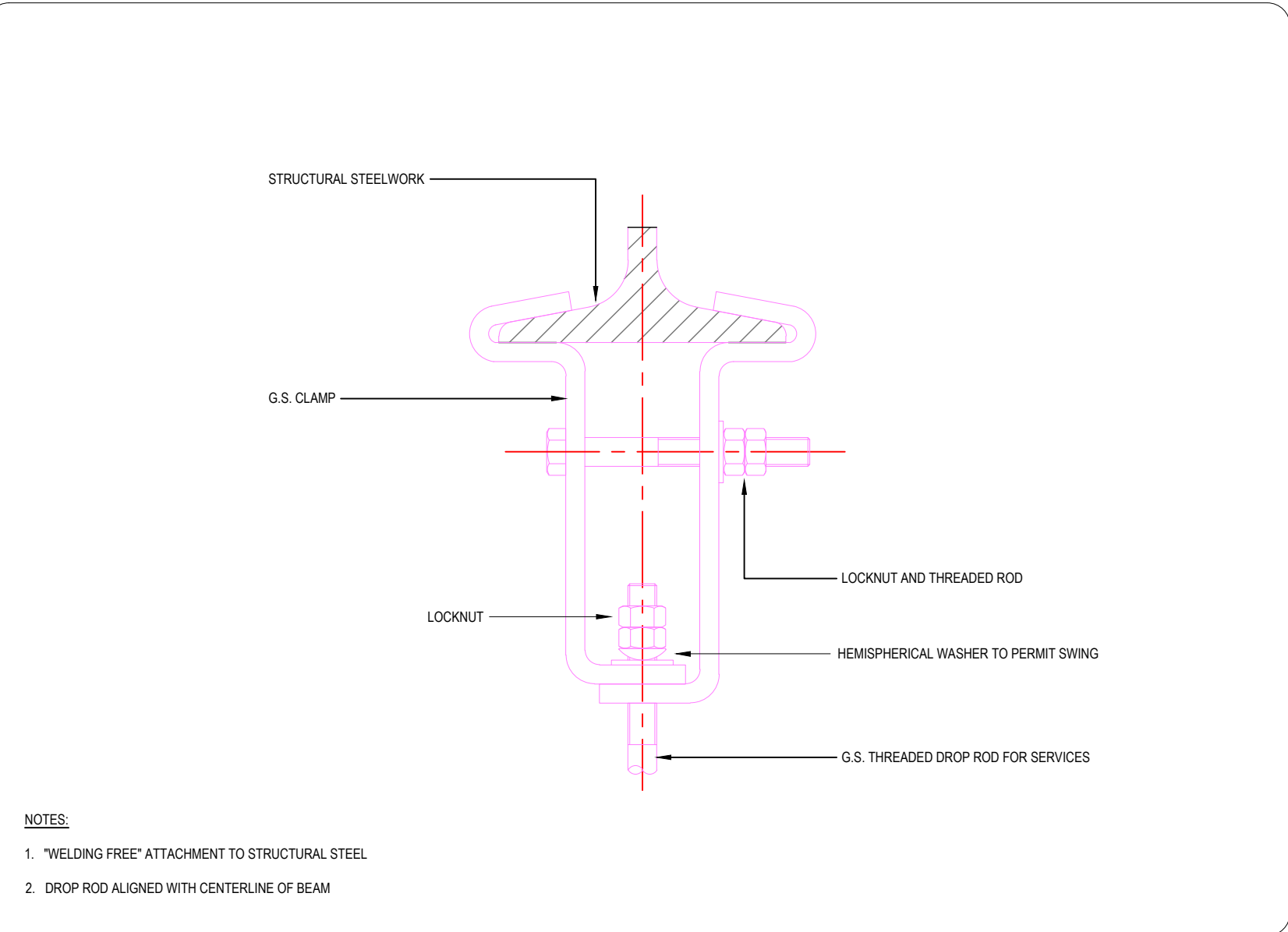
Y90-01 CIRCULAR STRUCTURAL STEEL FIXING



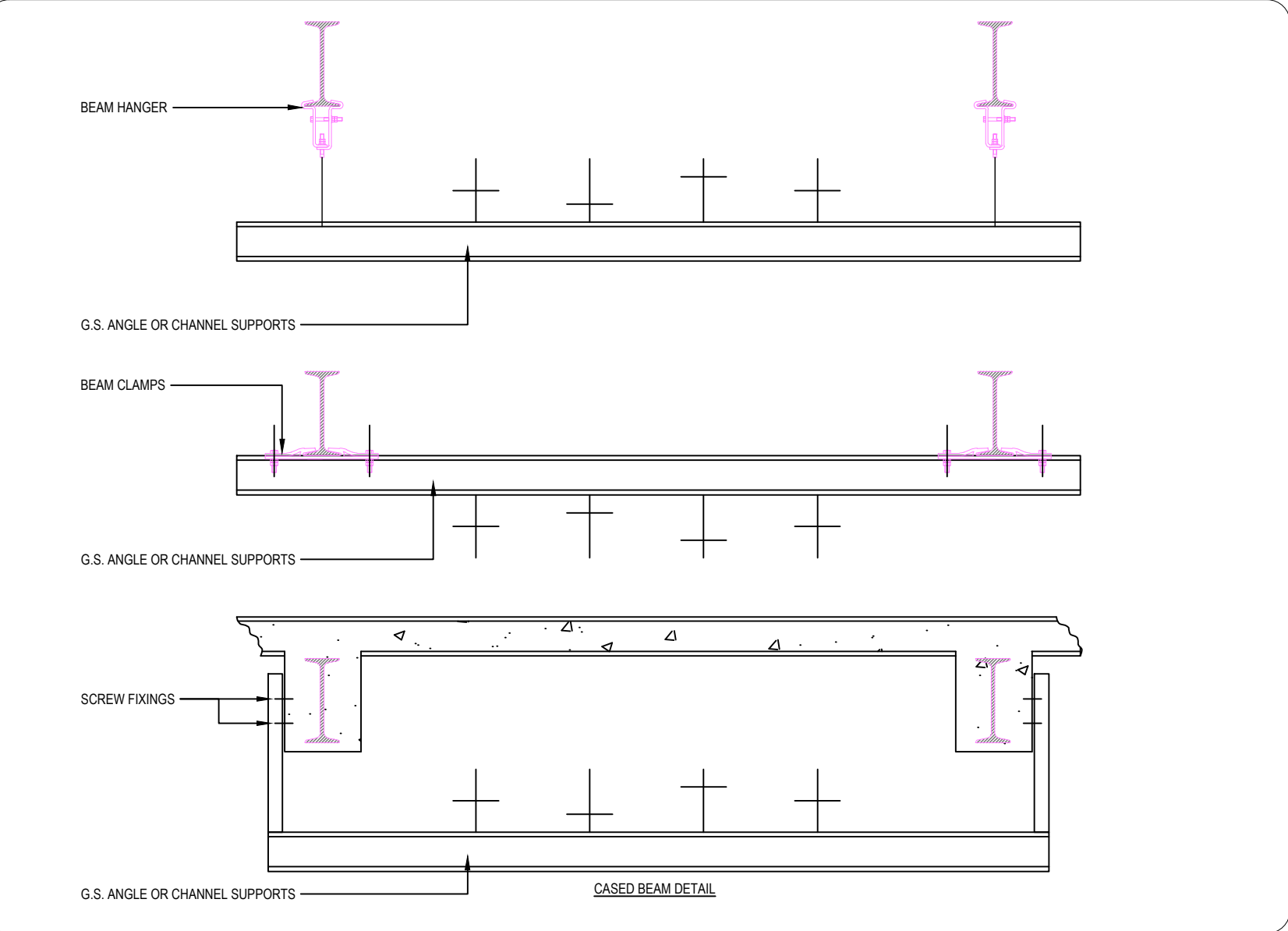
Y90-04 EXPANSION ANCHOR FIXING INTO STRUCTURAL CONCRETE



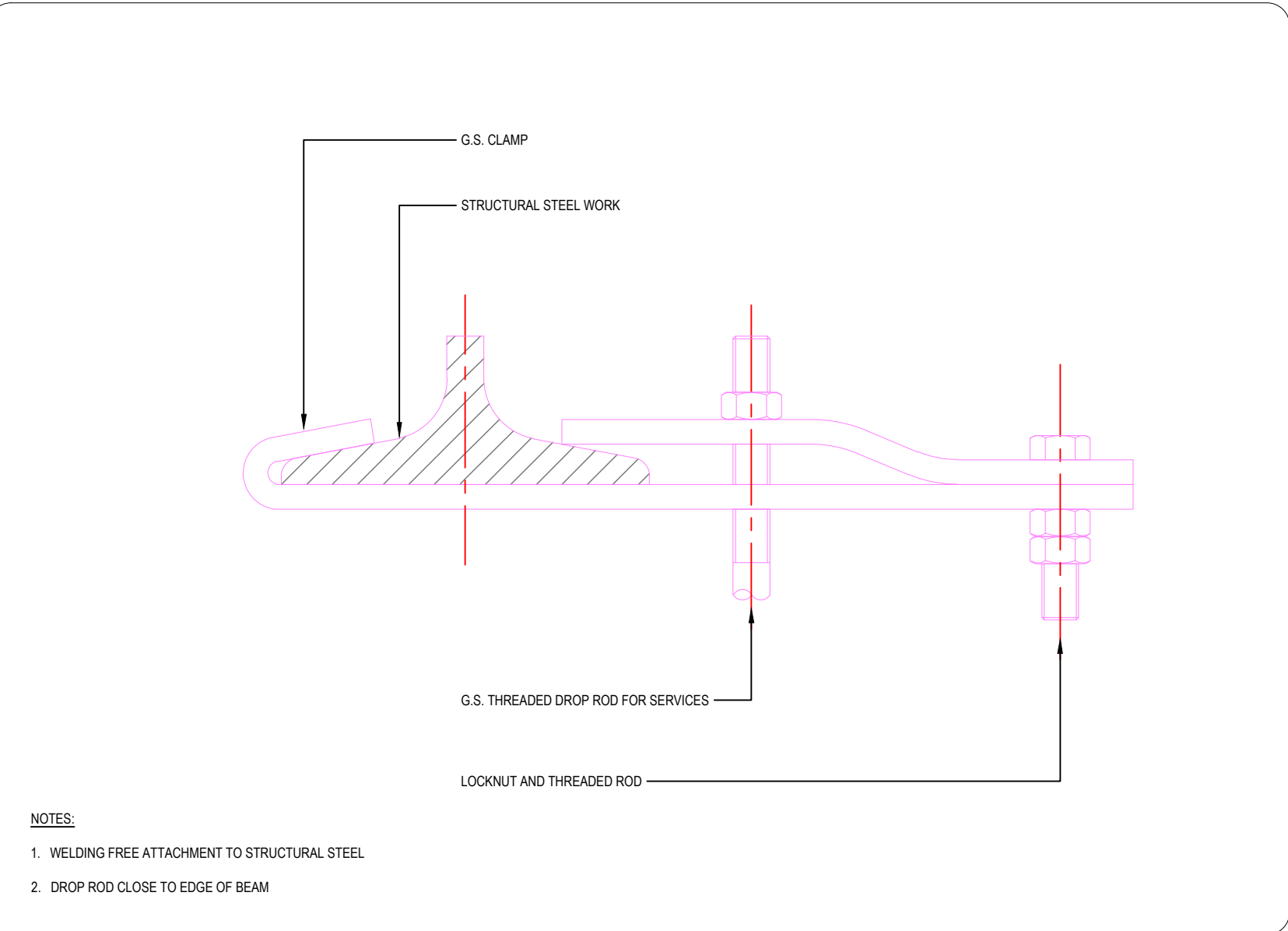
Y90-07 CHANNEL & DROP ROD SUPPORT



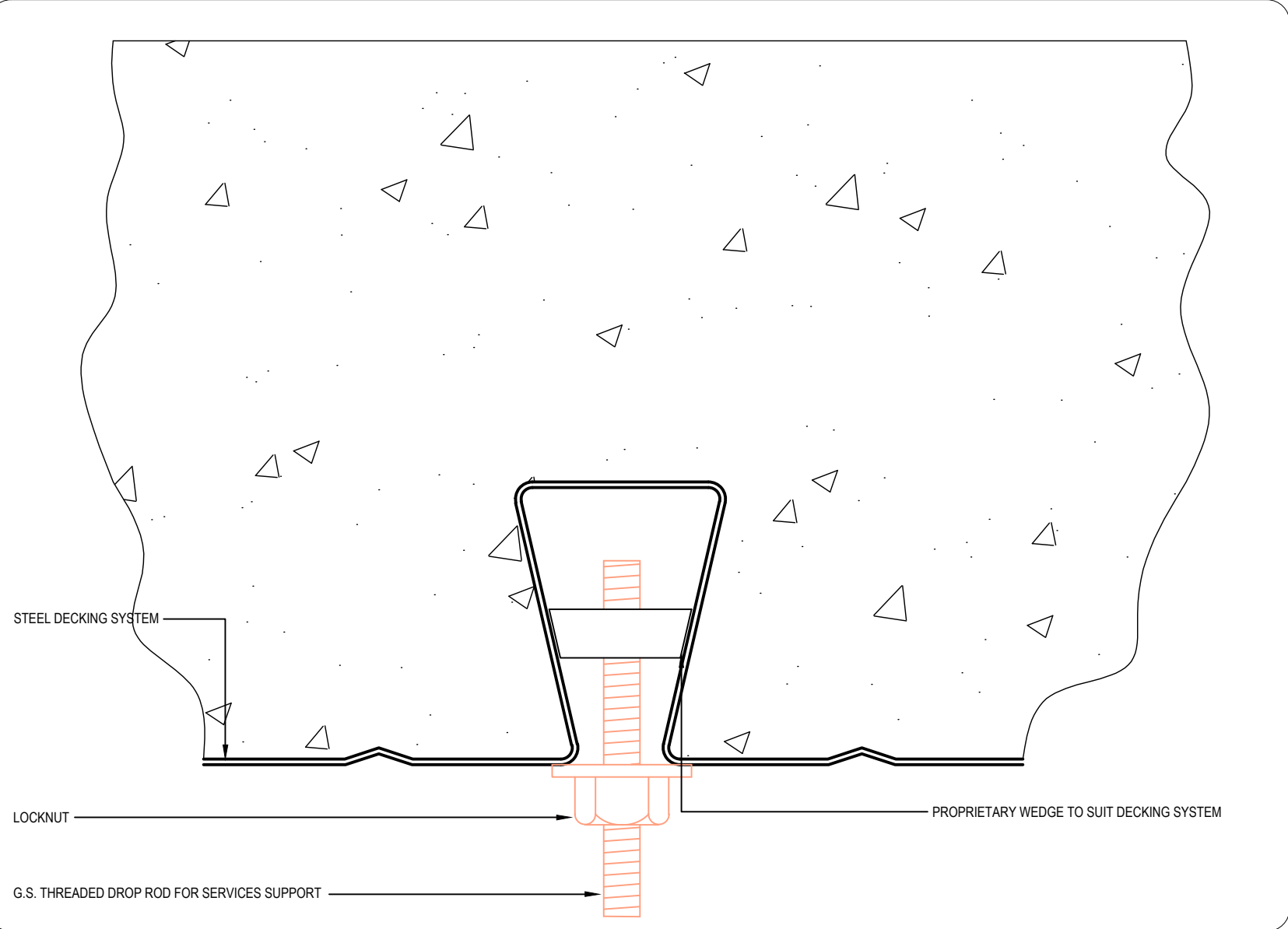
Y90-02 STEELWORK BEAM CLAMP HANGER FIXING TYPE 1



Y90-05 TYPICAL SUPPORT FIXINGS TO OVERHEAD STEELWORK



Y90-03 STEELWORK BEAM CLAMP FIXING TYPE 2



Y90-06 METAL COMPOSITE DECK FIXING - HOLORIB TYPE

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MAINTENANCE/CLEANING/OPERATION
MAINTENANCE WILL REQUIRE WORKING AT HEIGHT AND IN SMALL VOIDS
DECOMMISSIONING/DEMOLITION
EXISTING STANDS ARE LIKELY TO CONTAIN ASBESTOS. REFER TO ASBESTOS REGISTER. GROUND
CONTAMINATION SURVEY HAS BEEN UNDERTAKEN. REFER TO SURVEY FOR FURTHER INFORMATION.

- Notes
1. SEEK APPROVAL FROM STRUCTURAL ENGINEER AND PROVIDE LOADING DETAILS FOR ALL FIXINGS.
 2. INSTALL SERVICES FIXINGS TO STEELWORK SO THAT ANY FIRE COATING OR CLADDING TO STEELWORK IS NOT COMPROMISED.
 3. COMPLY WITH MANUFACTURERS INSTRUCTIONS FOR PROPRIETARY STEEL COMPOSITE DECK FIXINGS.
 4. WALL MOUNTED CANTILEVER BRACKETS NOT PERMITTED.

01	FOR TENDER	04.12.20	CC	AH
00	FOR COMMENTS	18.11.20	CC	AH
Rev	Description	Date	Dm	Chd

TENDER

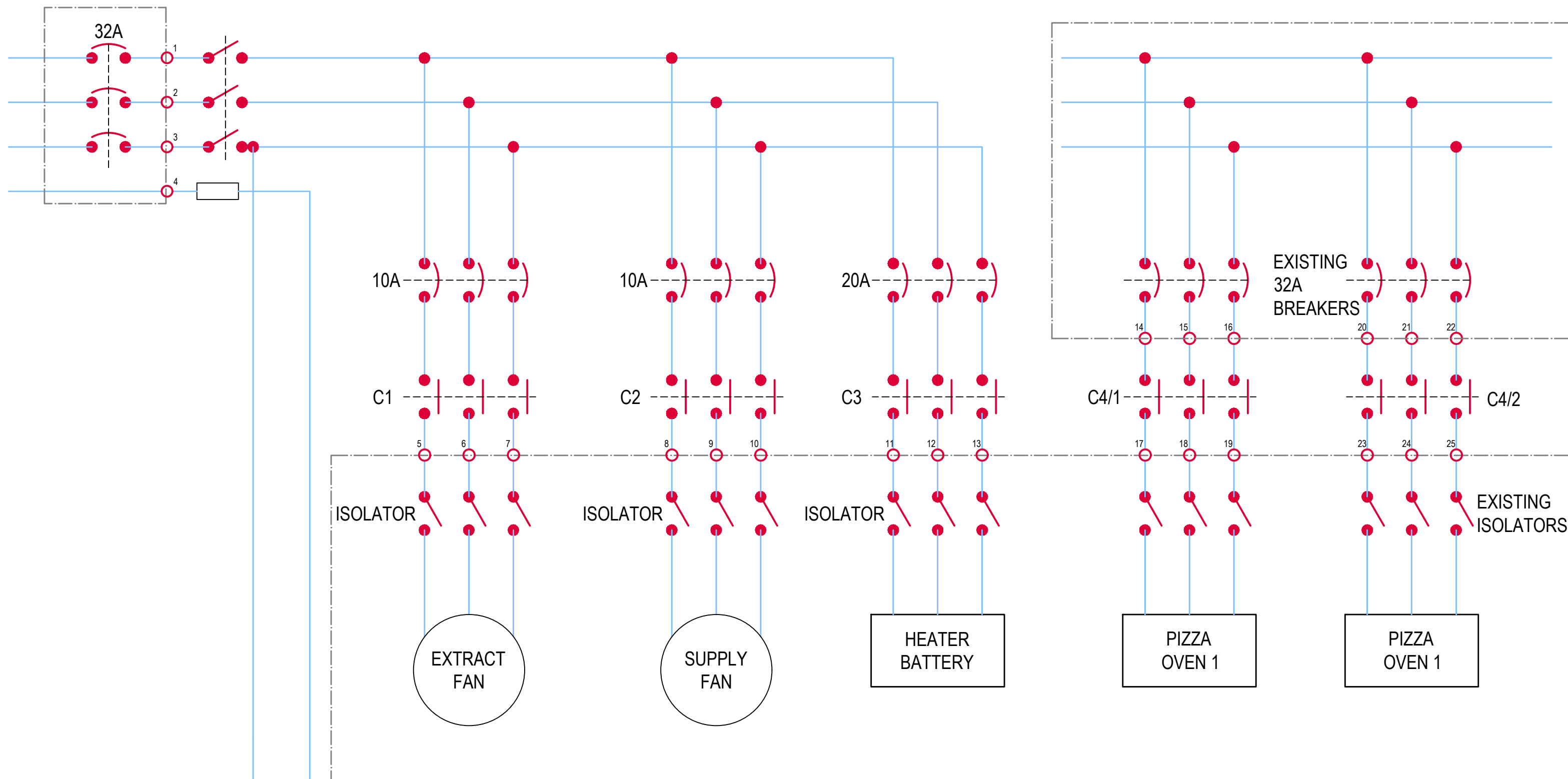
Status of drawing

BUROHAPPOLD
ENGINEERING

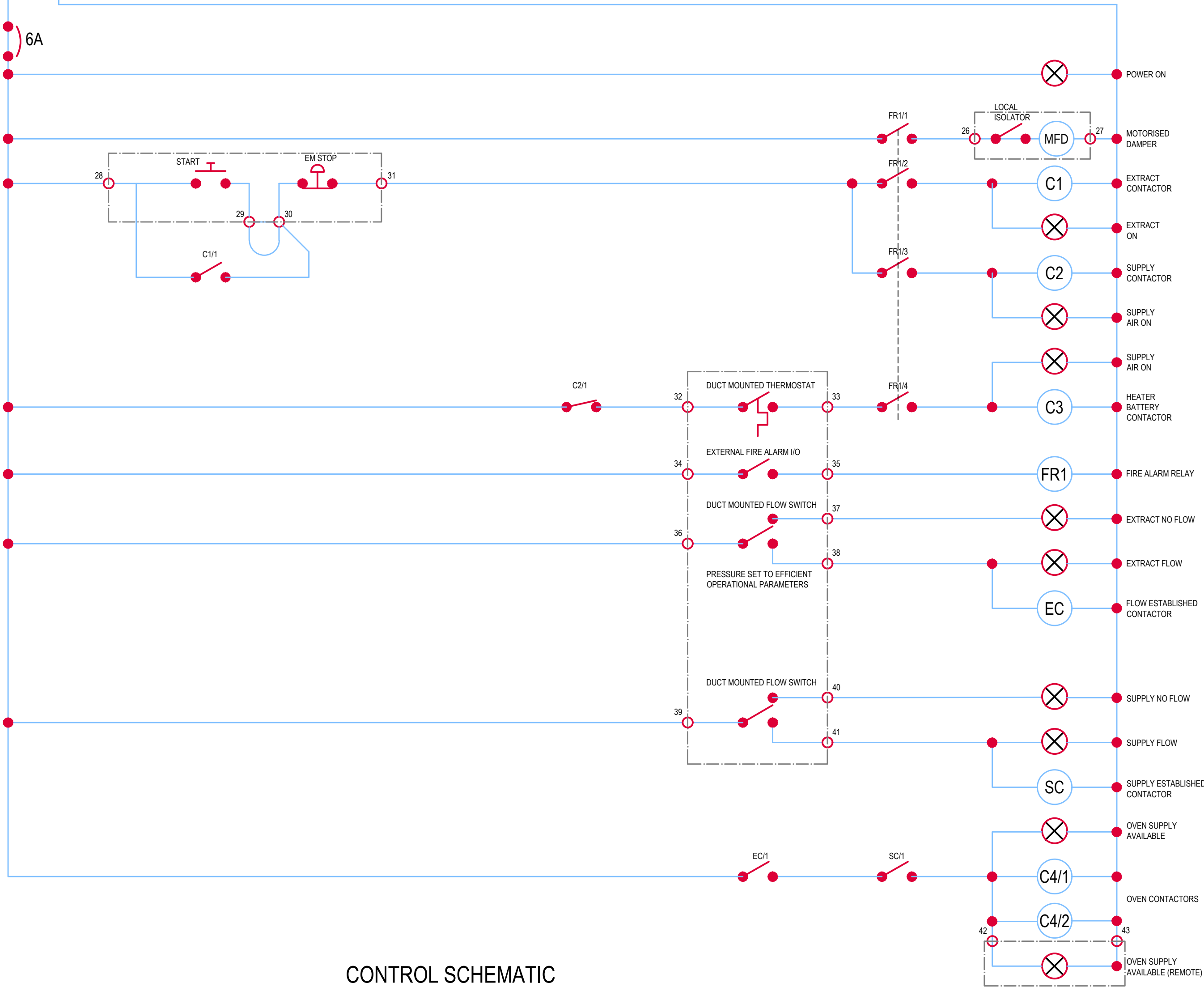
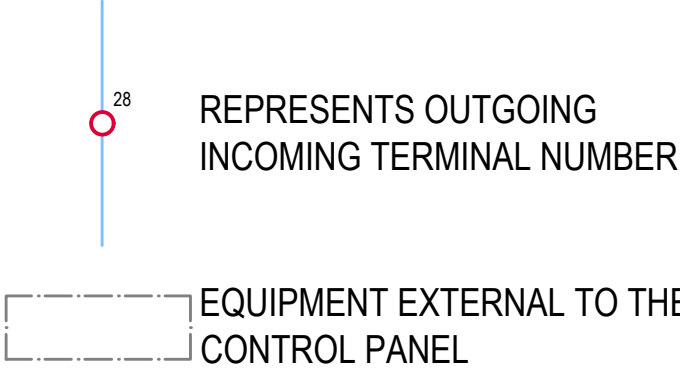
Architect N/A
Project British Museum - Pizzeria Ventilation
Drg Title STRUCTURAL FIXINGS

Scales@A3 N.T.S. Drawn by CC Checked by AH Date 04.12.2020	Job No. 0045387 Drawing No. BM_BHE_XX_XX_DR_E_3003 Rev 01
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Reference: C:\Users\N57\OneDrive\Projects\Buro Happold\Projects\British Museum\18P_2020\20201212_2 Asset_Consolidated_Cad\Drawings\BHE_XX_XX_DR_E_3003.dwg



TERMINALS FOR EXTERNAL COMPONENTS MAY BE LINKED OUT AS/ AS NOT REQUIRED.



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MAINTENANCE WILL REQUIRE WORKING AT HEIGHT AND IN SMALL VOIDS

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11. THE CONTRACTOR SHALL REFER TO THE BRITISH MUSEUM'S UP TO DATE FIRE COMPARTMENTATION DRAWINGS.

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00	FOR COMMENTS	18.11.20	CC	AH
Rev	Description	Date	Drm	Ch'd

Status of drawing

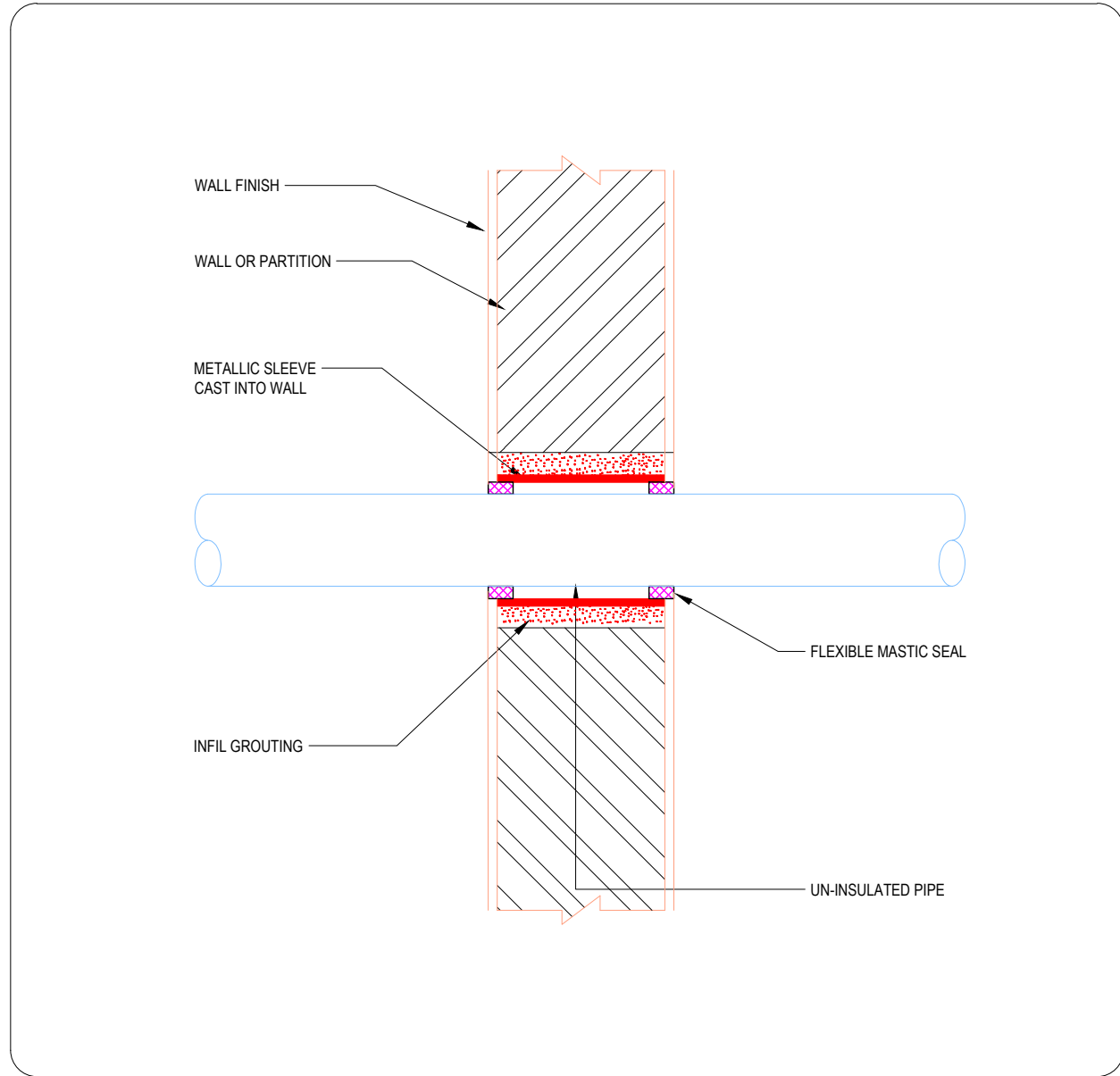
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ENGINEERING**

Architect N/A

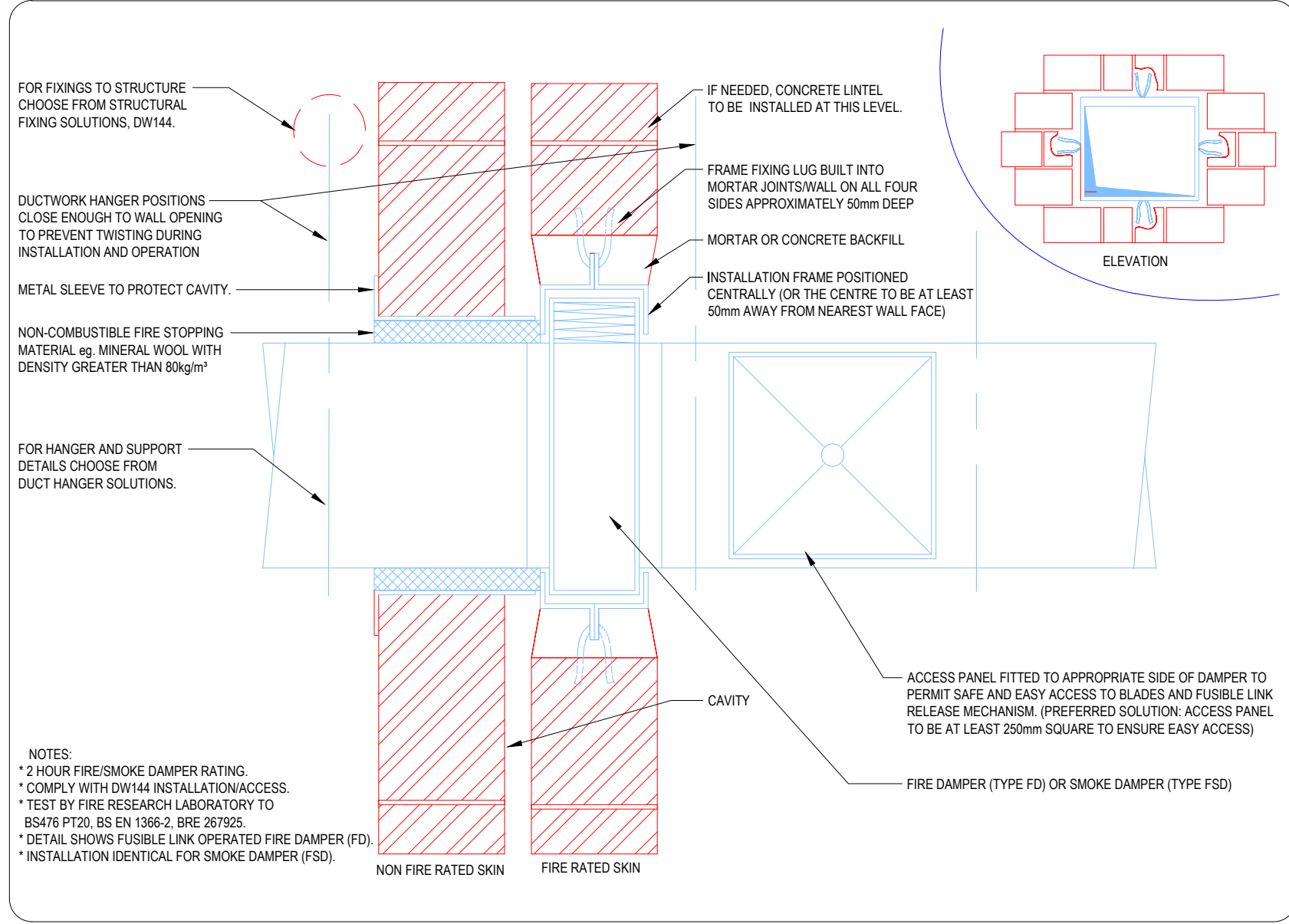
Project British Museum - Pizzeria Ventilation

Dwg Title CONTROLS SCHEMATIC

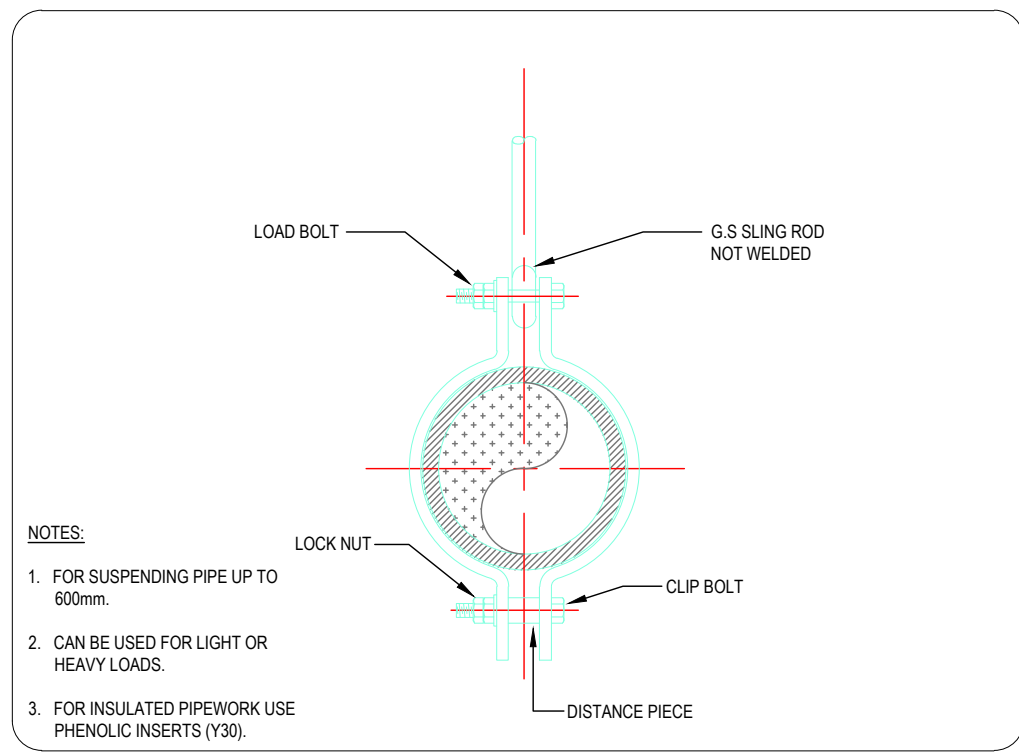
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Drawn by	CC	Drawing No.	BM_BHE_XX_XX_DR_E_7000
Checked by	AH	Rev	01
Date	04.12.2020		



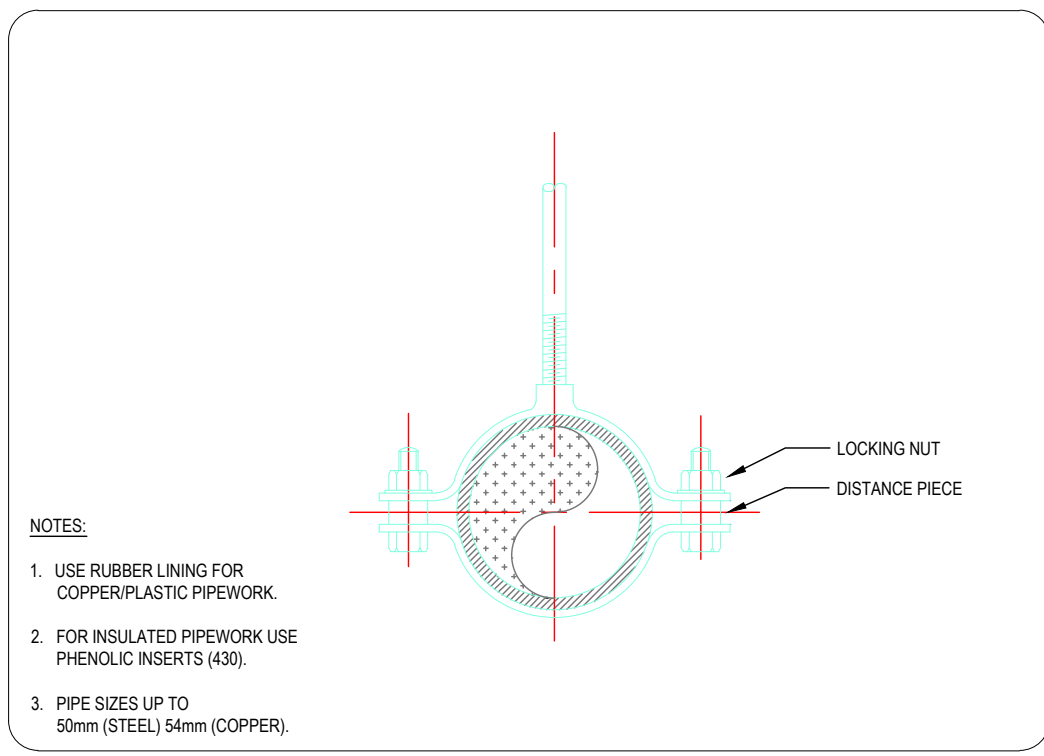
Y10-20 UN-INSULATED METALLIC PIPE CROSSING NON FIRE RATED WALL



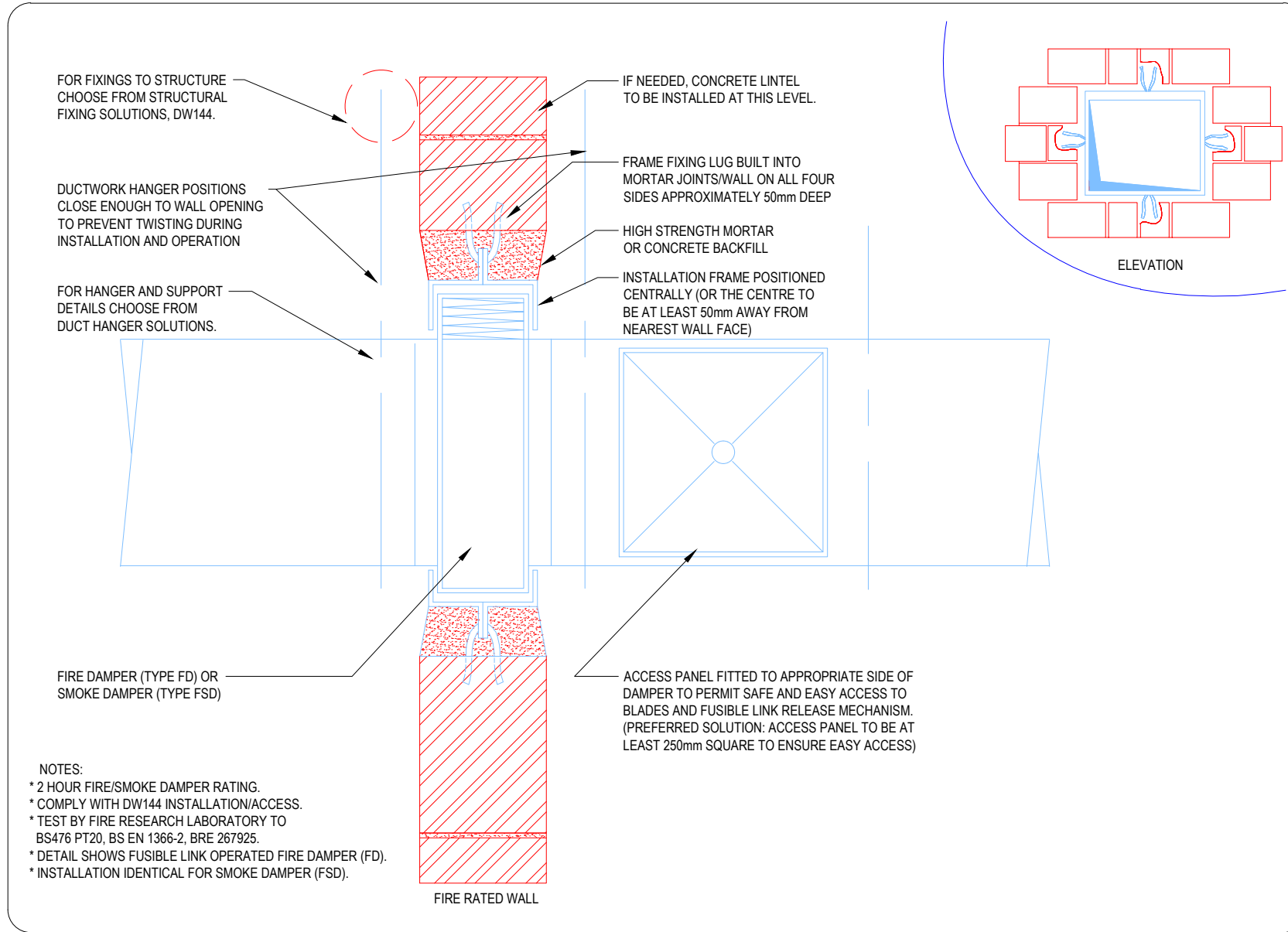
U80-06 VERTICAL FIRE/SMOKE DAMPER IN CAVITY WALL (2 HOUR)



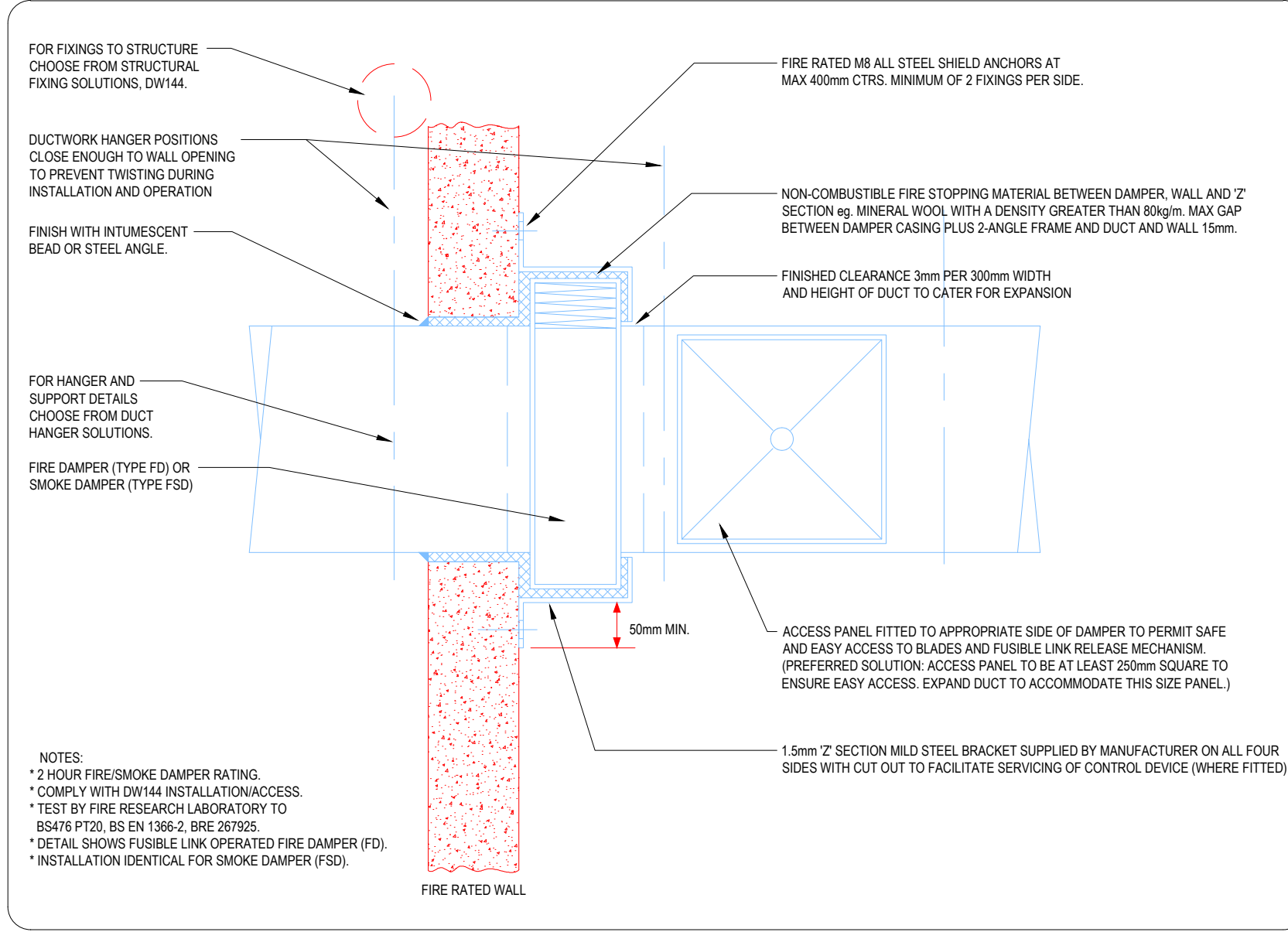
Y10-02 SUSPENDED PIPE CLAMP HANGER



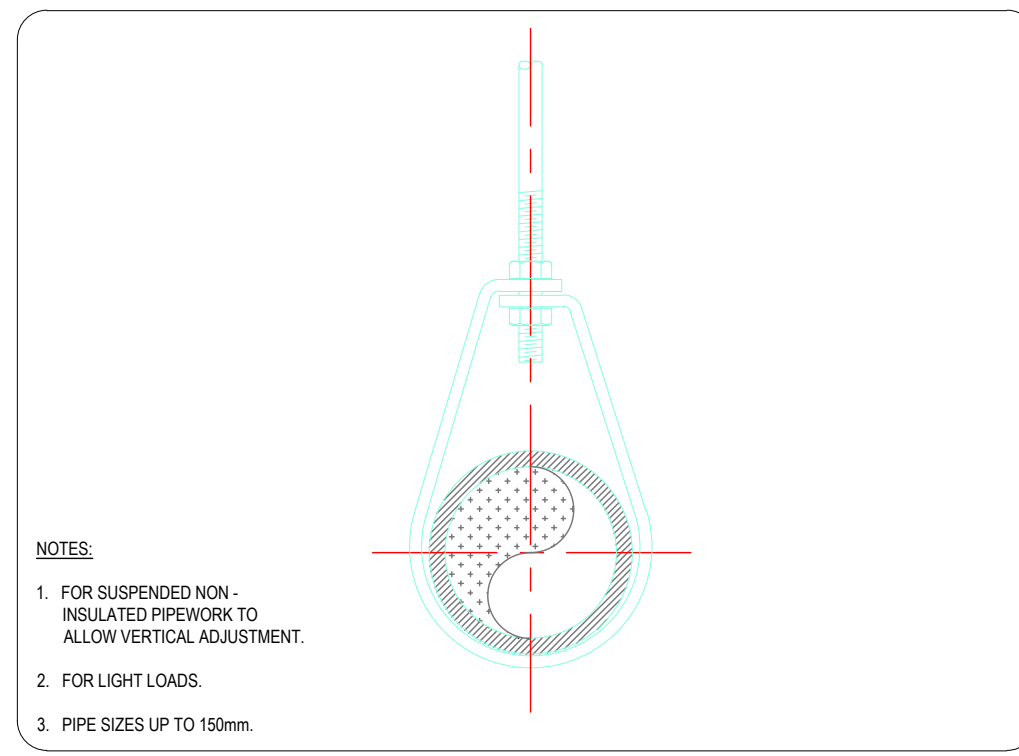
Y10-03 HORIZONTAL OR VERTICAL PIPE CLAMP HANGER



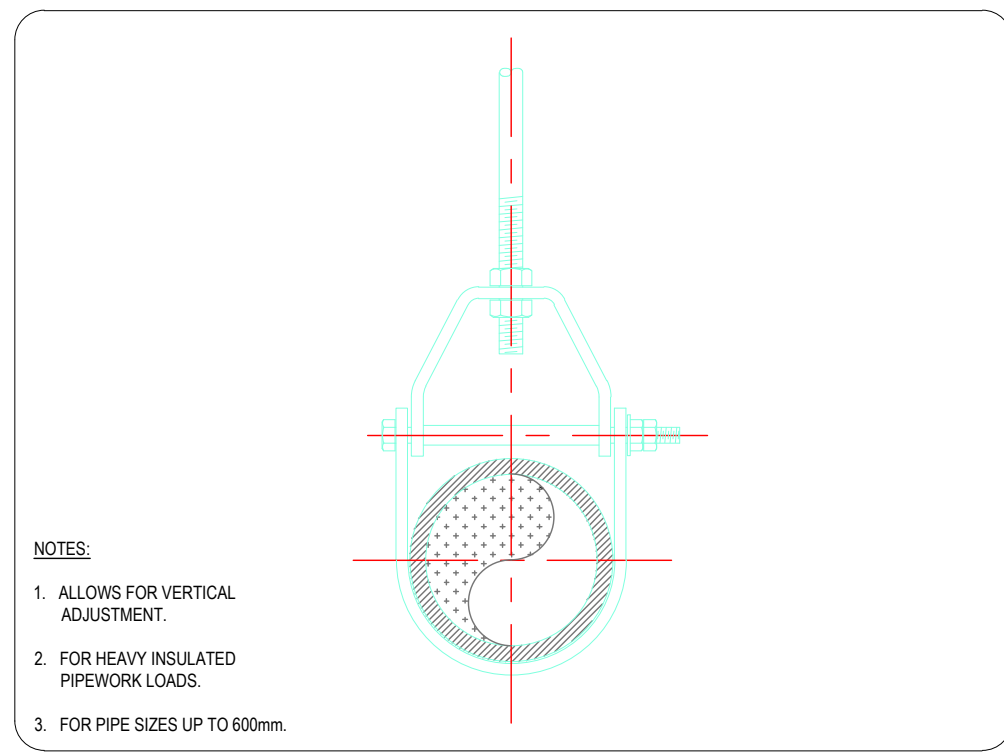
U80-03 VERTICAL FIRE/SMOKE DAMPER IN BRICK/BLOCKWORK WALL



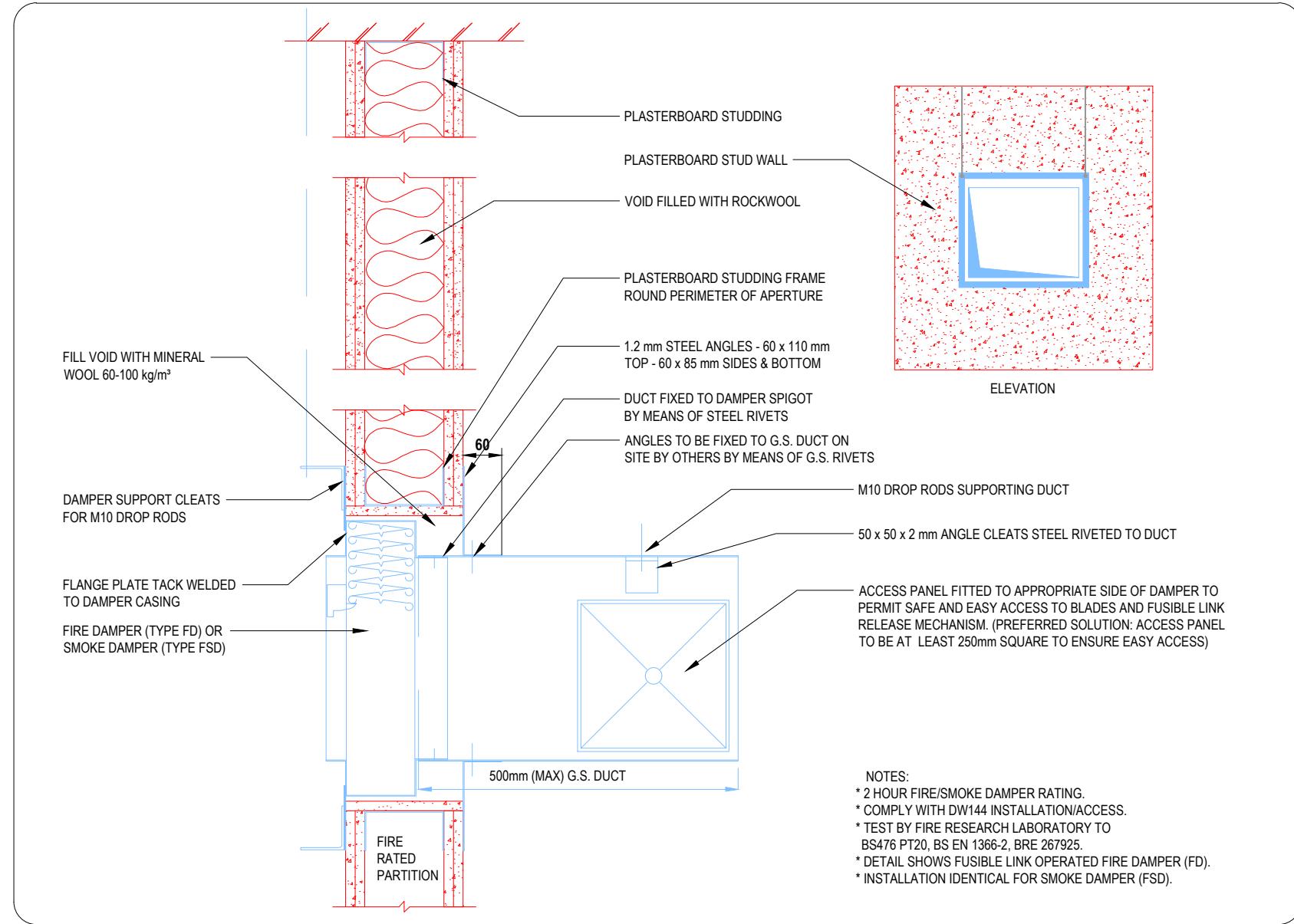
U80-08 VERTICAL FIRE/SMOKE DAMPER - SURFACE FIXED



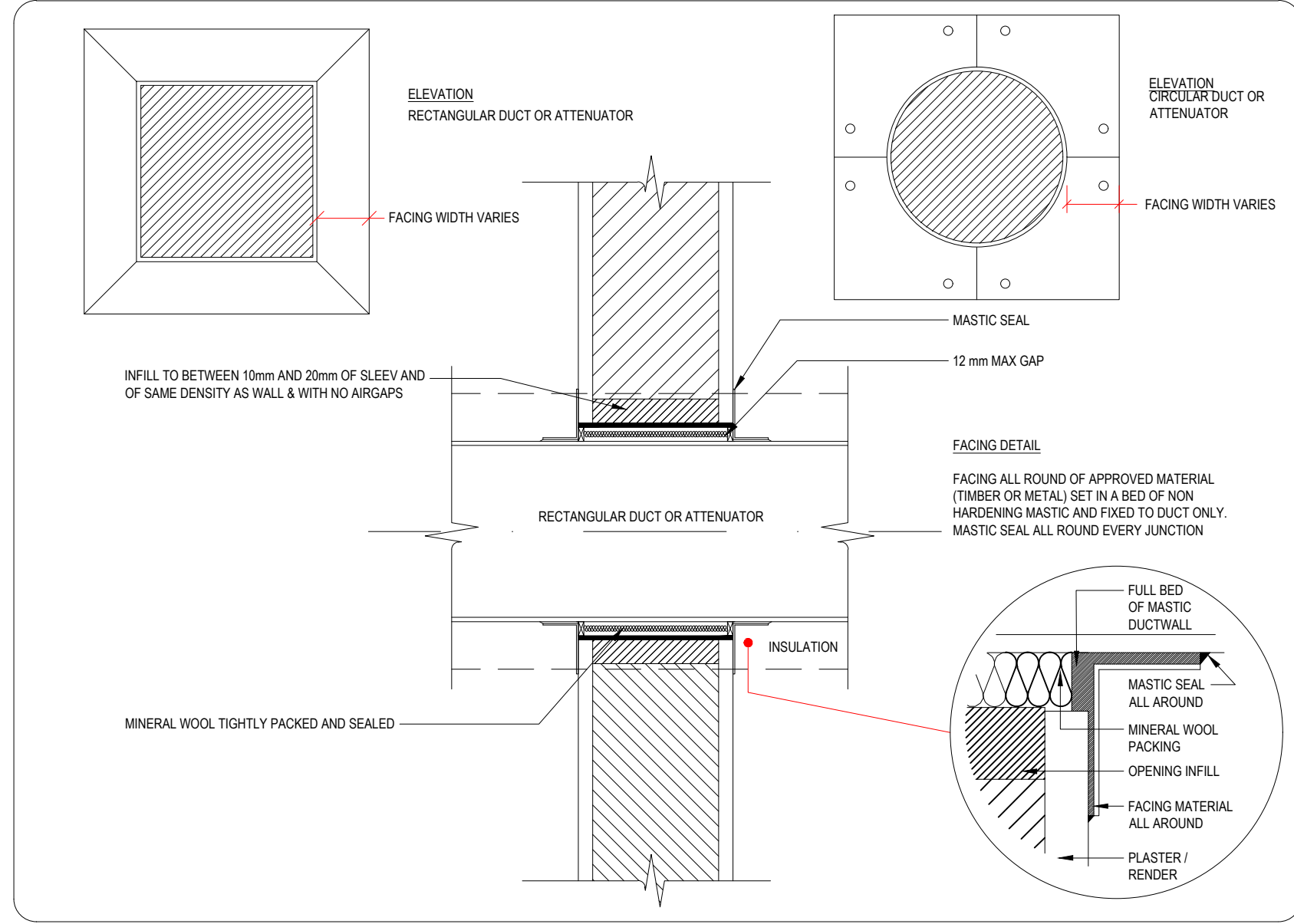
Y10-04 STRAP CLAMP HANGER



Y10-05 CLEVIS HANGER



U80-05 VERTICAL FIRE/SMOKE DAMPER-PLASTERBOARD STUD WALL



U80-12 ACOUSTIC DUCT PENETRATION

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MAINTENANCE/CLEANING/OPERATION.

DECOMMISSIONING/DEMOLITION.

Notes
1. REFER TO SPEC. CLAUSES : Y10.2.44 - 47
2. ENSURE INSULATION WITH VAPOUR SEAL IS CONTINUOUS THROUGH PENETRATIONS.
3. PROVIDE 15mm - 20mm MAXIMUM SPACING BETWEEN PIPEWORK / INSULATION AND SLEEVE.

01	FOR TENDER	04.12.20	CC	SC
00	FOR COMMENTS	18.11.20	CC	SC
Rev	Description	Date	Drm	Cnrd

TENDER

Status of drawing

BUROHAPPOLD ENGINEERING

Architect N/A
Project British Museum - Pizzeria Ventilation
Dwg Title MECHANICAL DETAILS 1

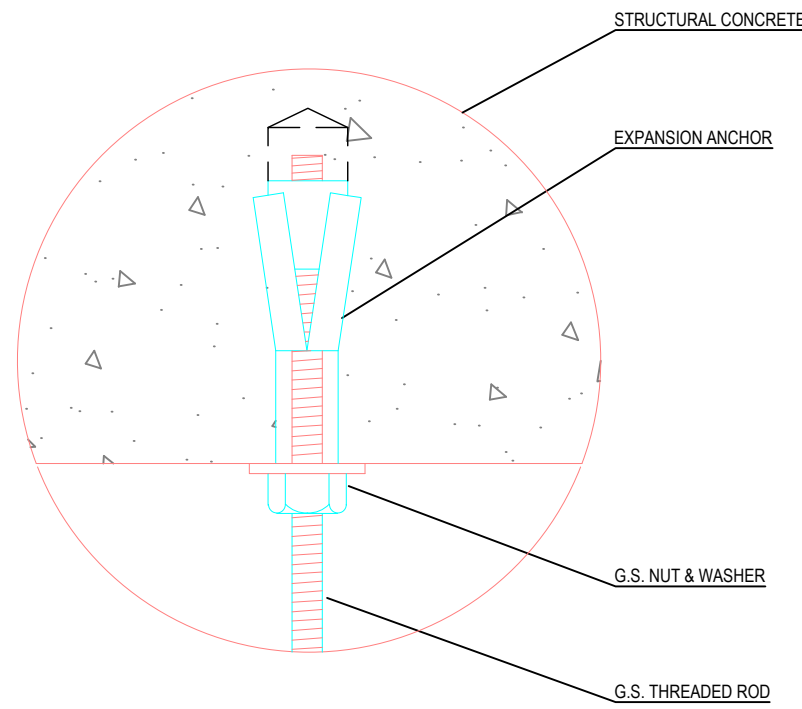
Scales@A1 NTS
Drawn by CC
Checked by SC
Date 04.12.2020

Job No. 0045387
Drawing No. BM_BHE_XX_XX_DR_M_3000
Rev 01

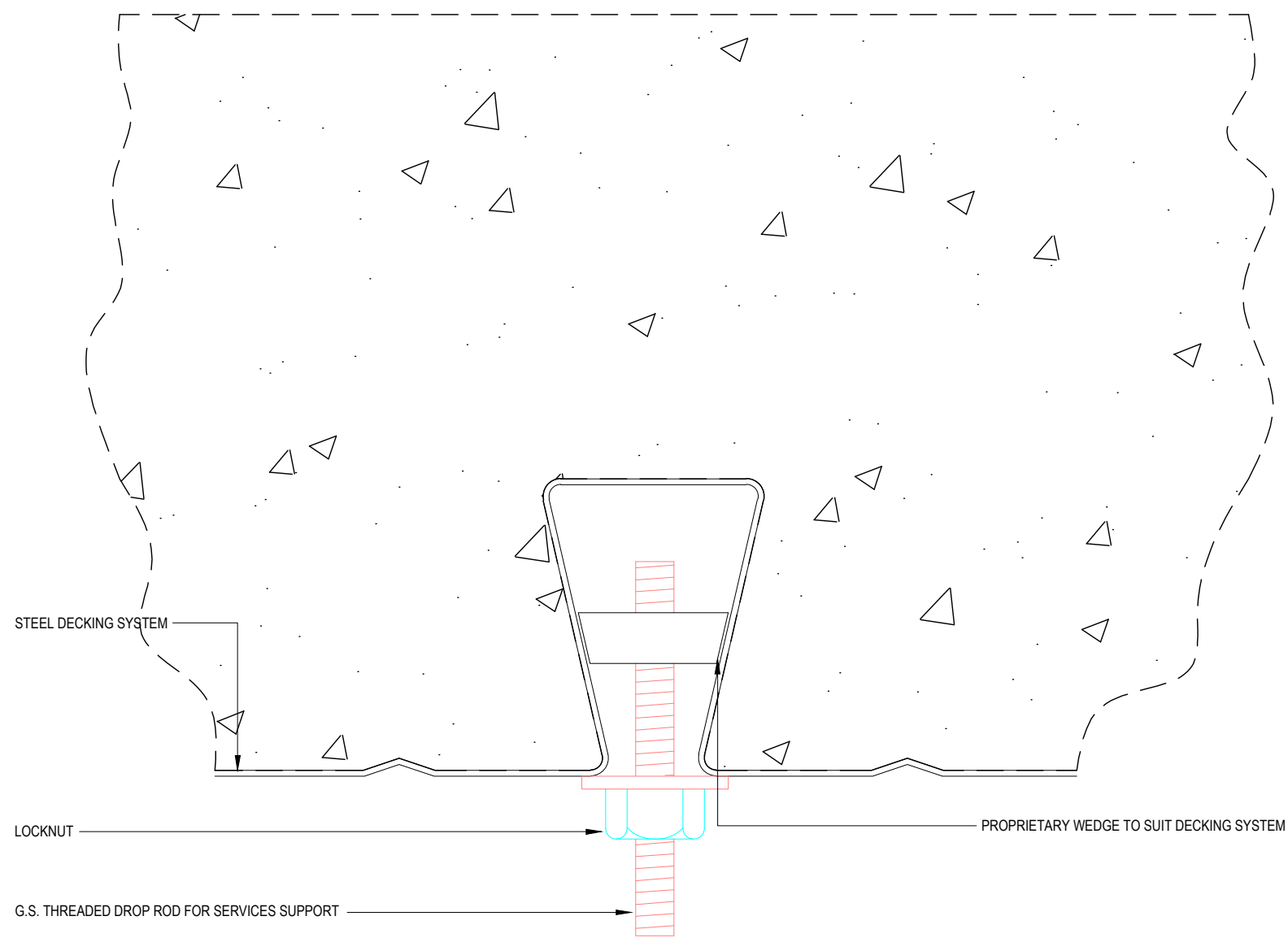
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Project: British Museum - Pizzeria Ventilation
Drawing: MECHANICAL DETAILS 1
Revision: 01
Date: 04.12.2020
Drawn by: CC
Checked by: SC
Scale: NTS
Job No: 0045387
Drawing No: BM_BHE_XX_XX_DR_M_3000
Rev: 01



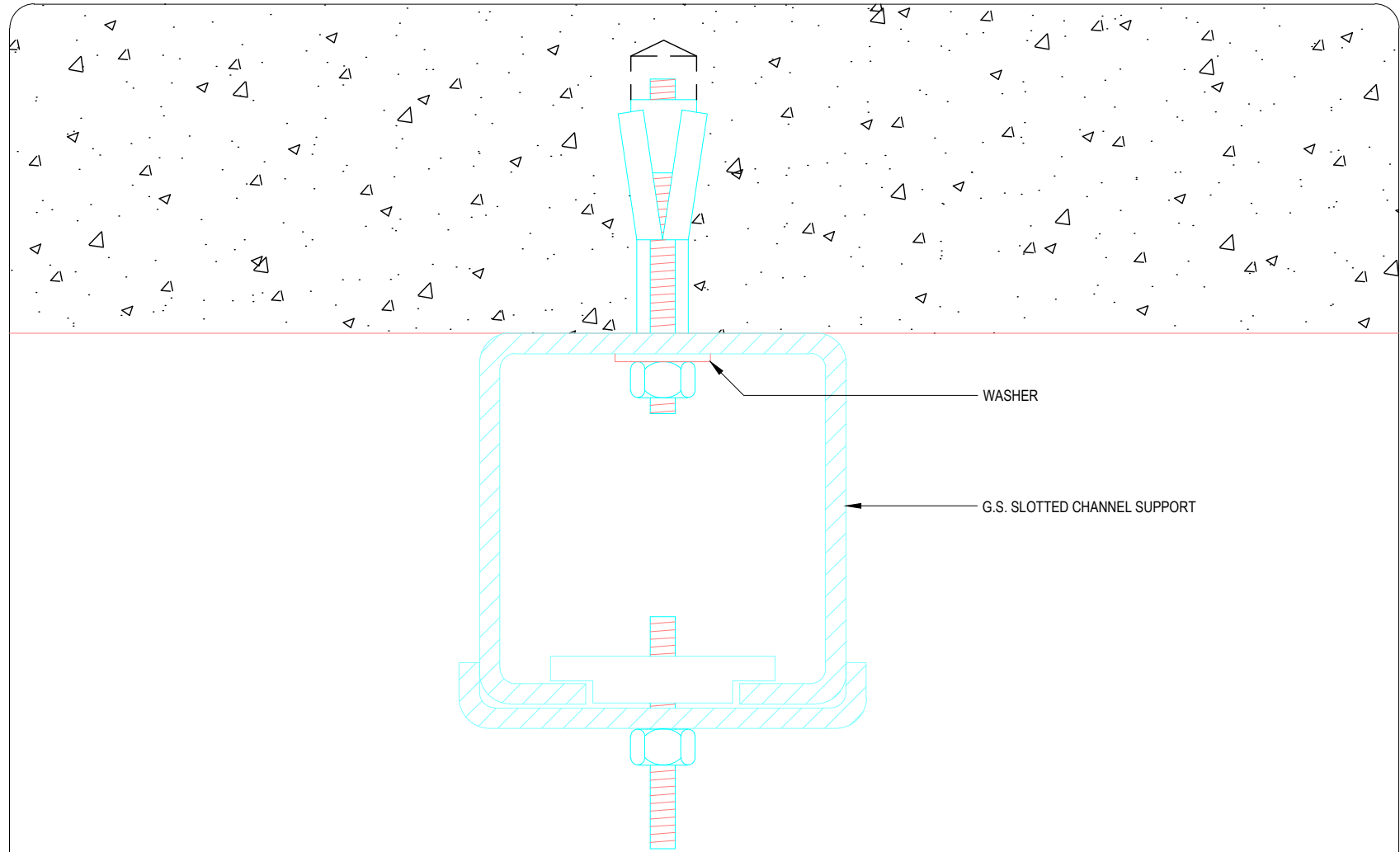
shiraze Giardini | Ssv-barbès-project | 0045387 | British Museum | ILIP - 2020 - 2021 | F-23 Asset Control | Calculations | M4 - Personal | Detailed Design | Pizzeria For Drafting | CAD File | HK CAD Work | 20201117 | CAD | BEM | BHE | XX | XX | DR | M | 3001 | dwg



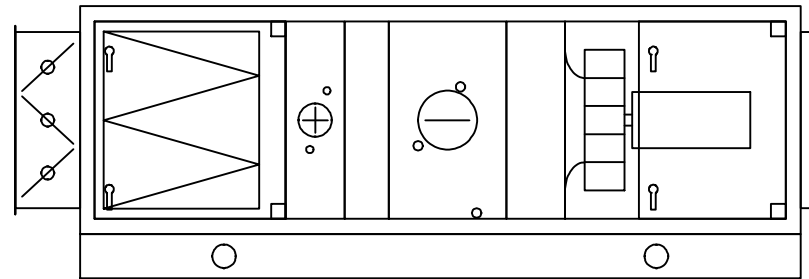
Y90-04 EXPANSION ANCHOR FIXING INTO STRUCTURAL CONCRETE



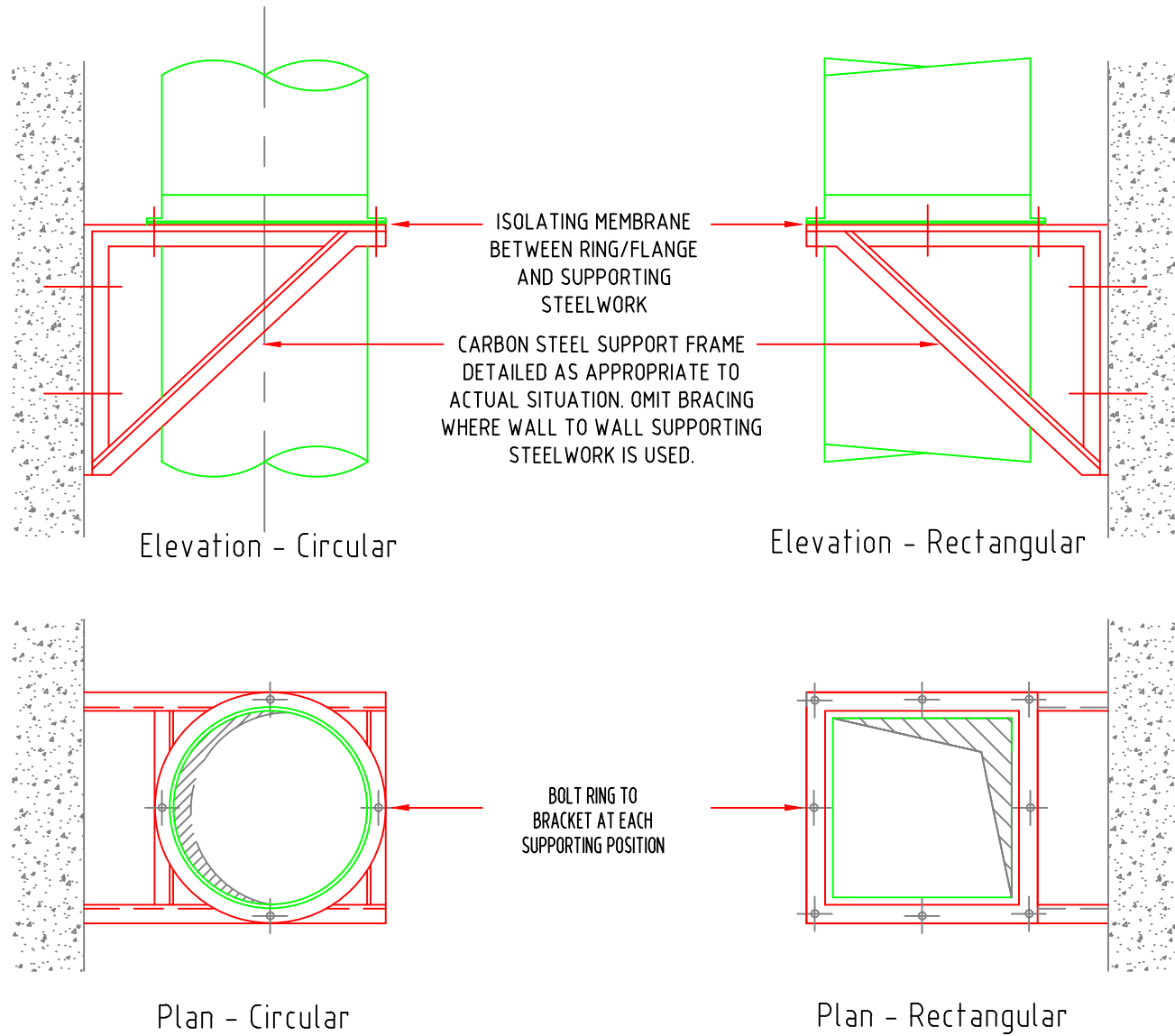
Y90-06 METAL COMPOSITE DECK FIXING - HOLORIB TYPE



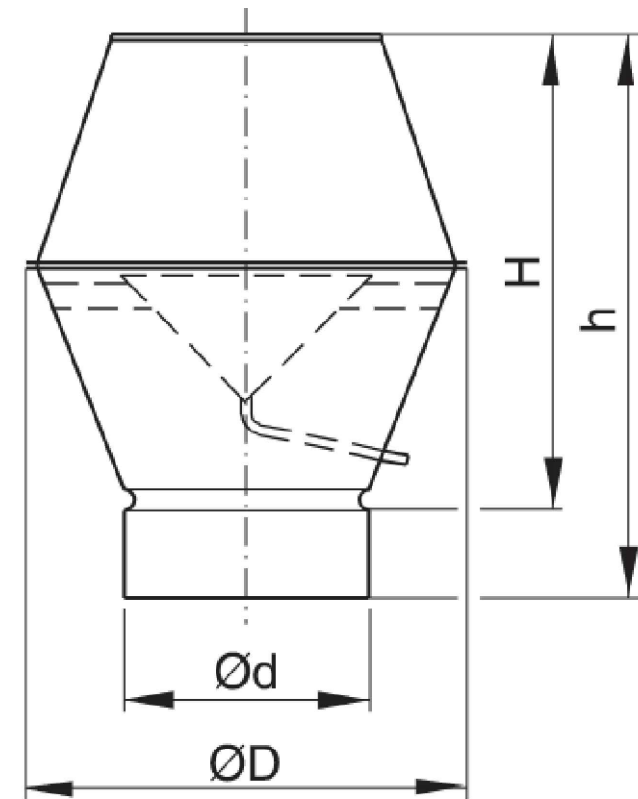
Y90-07 CHANNEL & DROP ROD SUPPORT



U81-05 TYPE 5 - SUPPLY ONLY



U81-06 TYPICAL SUPPORTS FOR VERTICAL DUCTWORK - NON INSULATED - NTS



U81-07 ROOF HOOD DETAIL

Ød nom	ØD [mm]	H [mm]	h [mm]	m [kg]
80	130	160	310	0,66
100	180	220	360	0,96
125	225	240	380	1,26
160	280	340	475	1,95
200	345	420	555	2,92
250	430	505	640	4,31
315	550	620	755	6,75
400	685	846	981	9,57

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MAINTENANCE/CLEANING/OPERATION.

DECOMMISSIONING/DEMOLITION.

Notes

1. SEEK APPROVAL FROM STRUCTURAL ENGINEER AND PROVIDE LOADING DETAILS FOR ALL FIXINGS.
2. INSTALL SERVICES FIXINGS TO STEELWORK SO THAT ANY FIRE COATING OR CLADDING TO STEELWORK IS NOT COMPROMISED.
3. COMPLY WITH MANUFACTURERS INSTRUCTIONS FOR PROPRIETARY STEEL COMPOSITE DECK FIXINGS.
4. WALL MOUNTED CANTILEVER BRACKETS NOT PERMITTED.

01	FOR TENDER	04.12.20	CC	SC
00	FOR COMMENTS	18.11.20	CC	SC
Rev	Description	Date	Drm	Chd

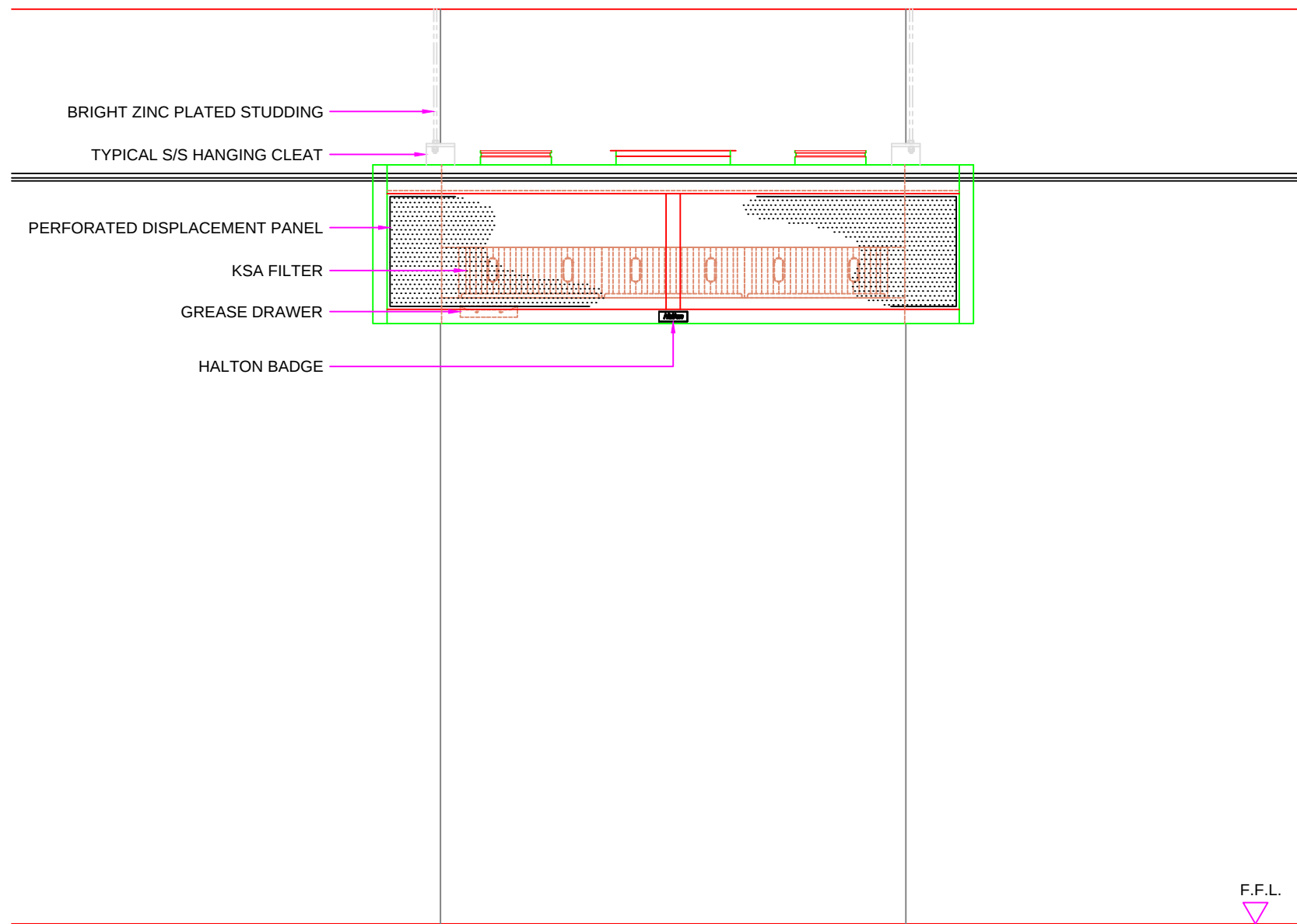
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Status of drawing

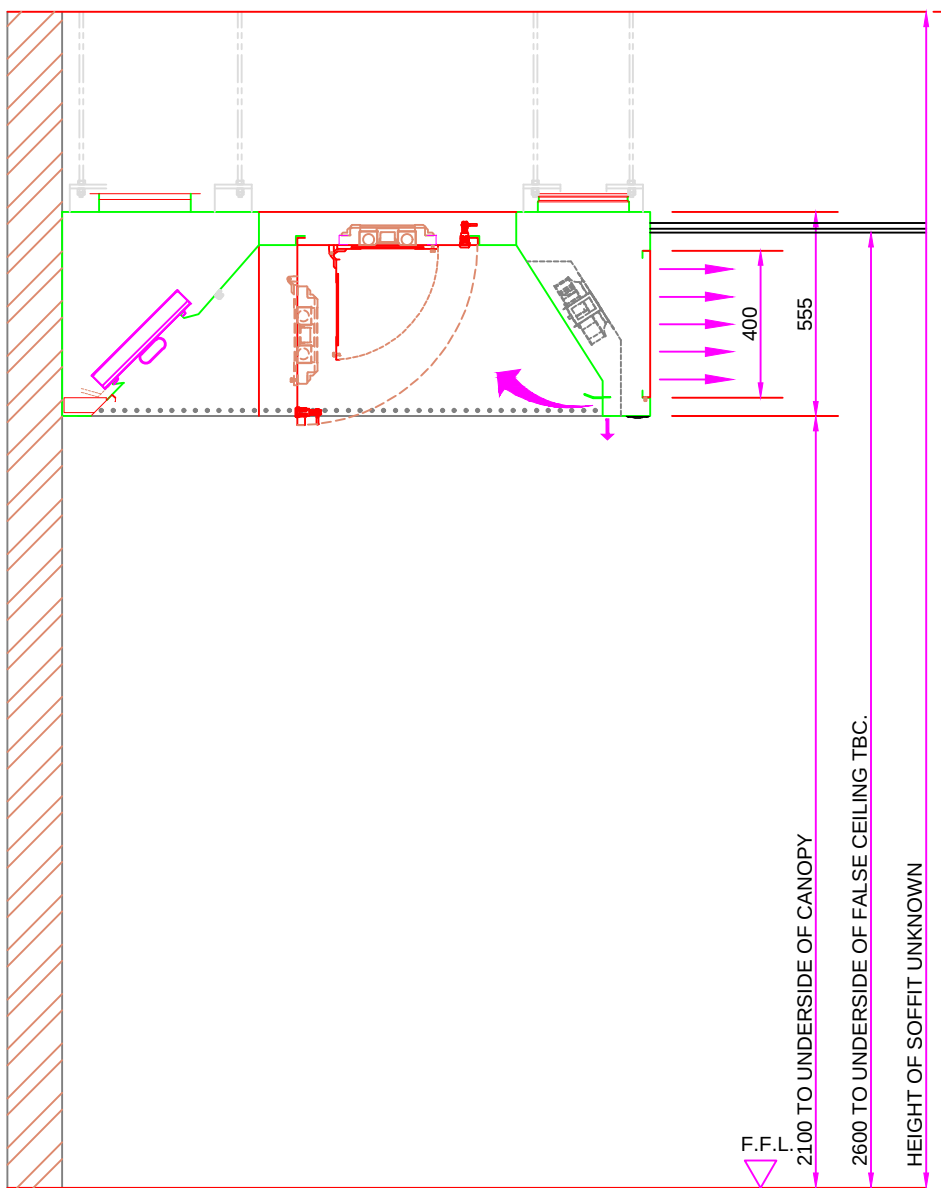
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ENGINEERING**

Architect N/A
Project British Museum - Pizzeria Ventilation
Dwg Title MECHANICAL DETAILS 3

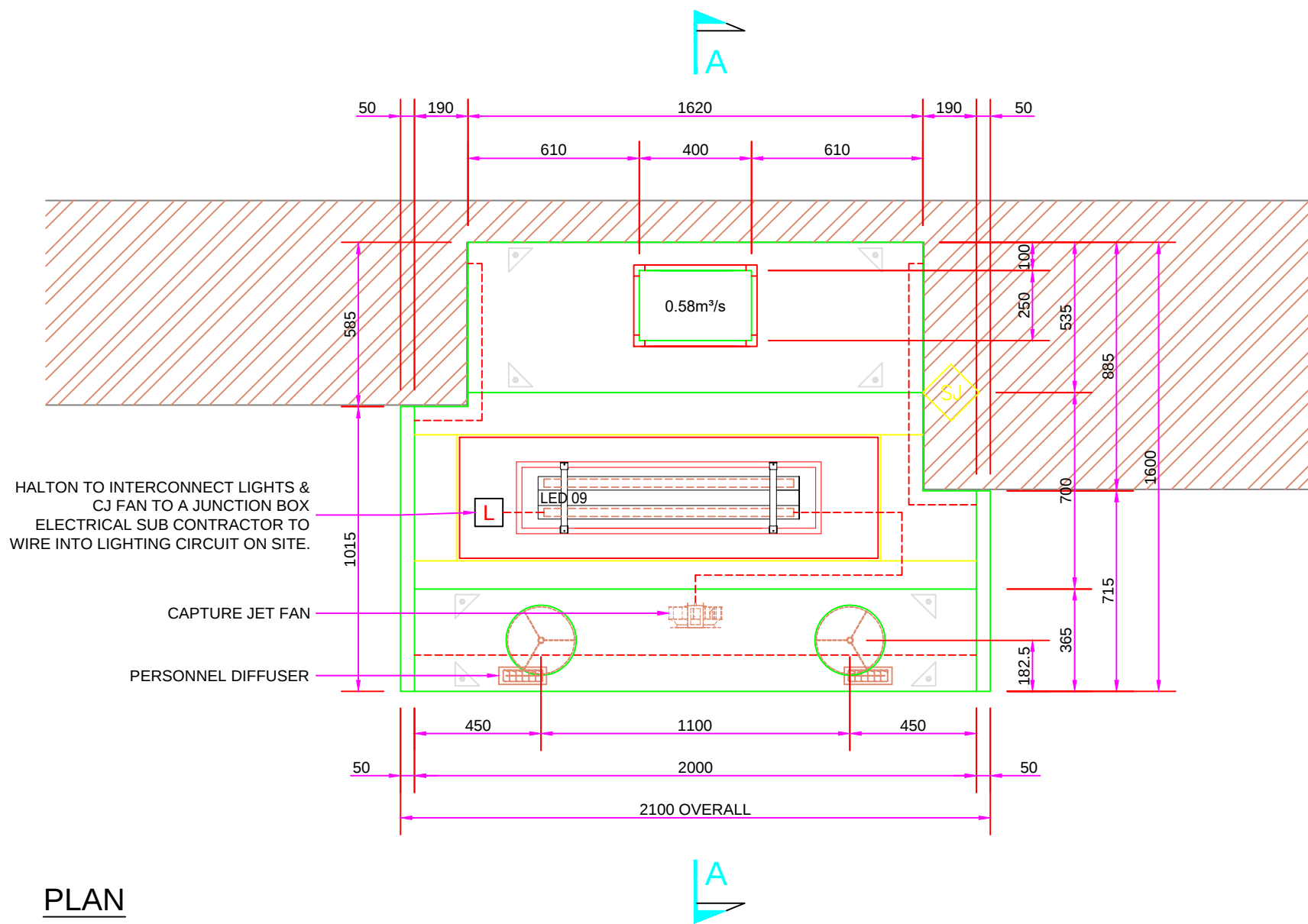
Scales@A1: NTS Drawn by CC Checked by SC Date 04.12.2020	Job No. 0045387 Drawing No. BM_BHE_XX_XX_DR_M_3002 Rev 01
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FRONT VIEW



SECTION A-A



PLAN

CANOPY DETAILS:

Halton Model:	KVF
Canopy Size:	2100 x 1600 x 555
Extract Flow Rate:	0.58m ³ /s
Static Pressure at Extract Spigot:	115 Pa
Extract Spigots (20 Mez):	1 No. 400 x 250
Supply Flow Rate:	0.45m ³ /s
Static Pressure at Supply Spigot:	52 Pa
Supply Spigots:	2No. Ø250
Approx Hanging Weight:	180 Kg
KSA Filters 500x330x50:	3 No.
Grease Drawers:	1 No.
Lighting Type & Number:	1No. LED09 (28w)
Lighting Colour Temperature:	4000 K

NOTE: 0.043m³/s SUPPLY AIR SHORTFALL TO BE BROUGHT IN VIA OTHER MEANS.

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MAINTENANCE/CLEANING/OPERATION.

DECOMMISSIONING/DEMOLITION.

Notes

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Rev	Description	Date	Drm Chfd

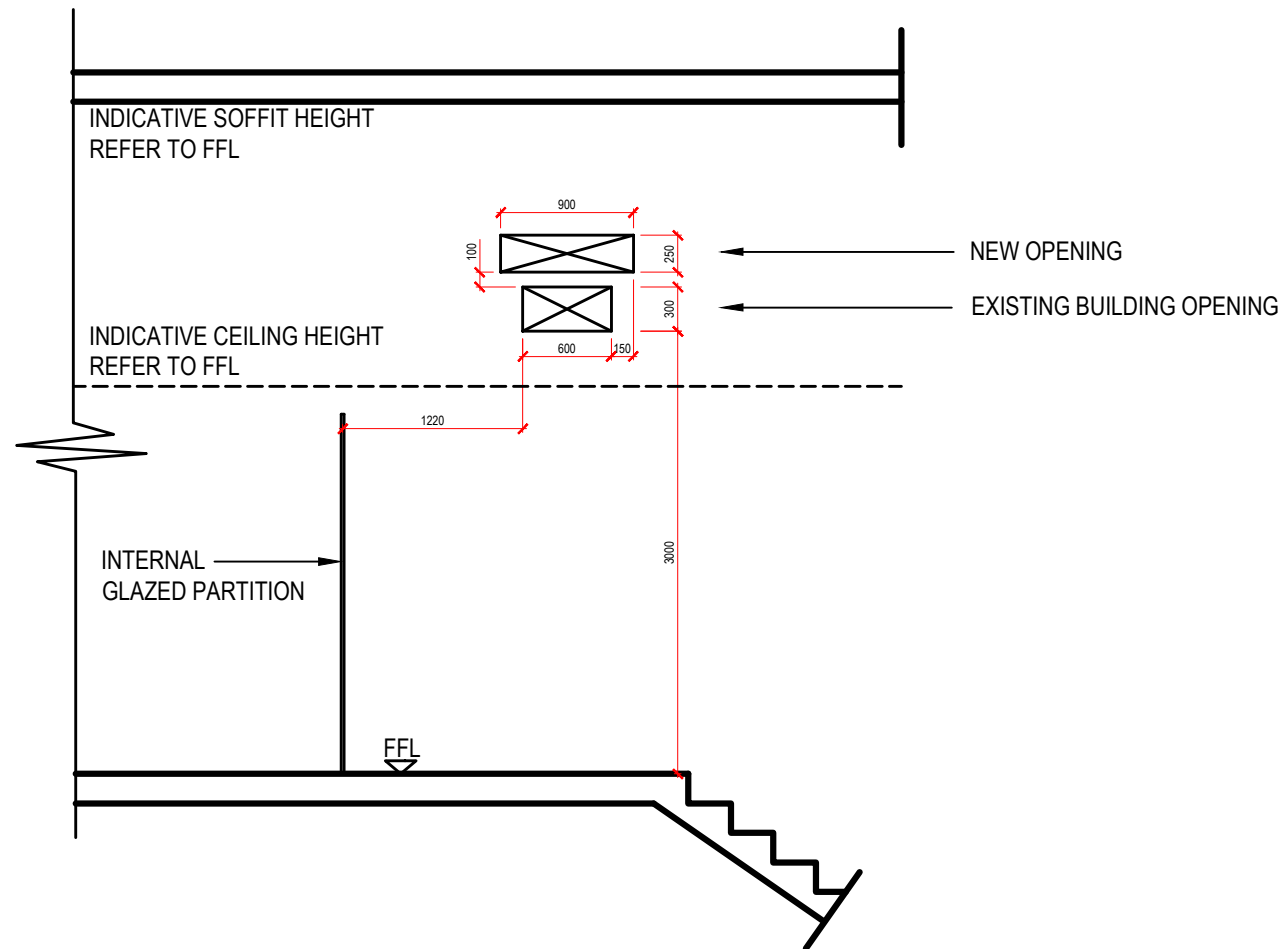
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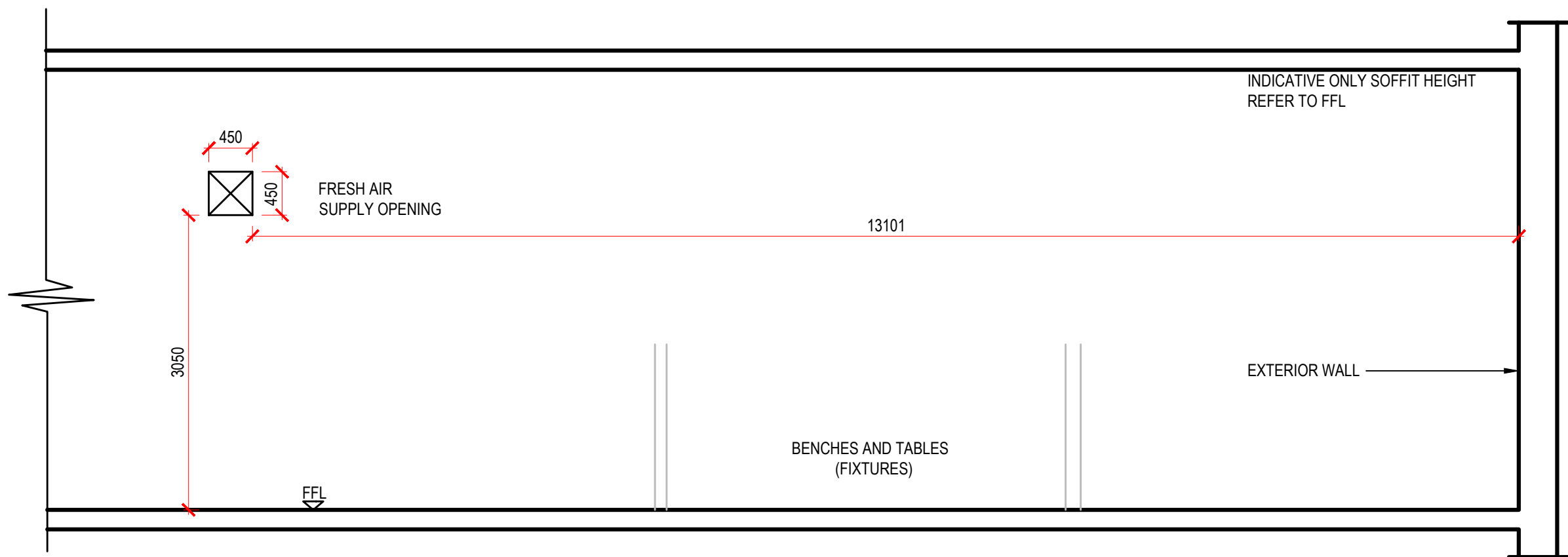
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ENGINEERING

Architect N/A
Project British Museum - Pizzeria Ventilation
Drg Title KITCHEN CANOPY DETAILS

Scales@A1 1:20	Job No. 0045387
Drawn by CC	Drawing No. BM_BHE_XX_XX_DR_M_3003
Checked by SC	Rev 01
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SECTION 001
1:50



SECTION 002
1:50

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SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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CONSTRUCTION

INSTALLATION WILL REQUIRE WORKING AT HEIGHT AND IN SMALL VOIDS

MAINTENANCE/CLEANING/OPERATION

MAINTENANCE WILL REQUIRE WORKING AT HEIGHT AND IN SMALL VOIDS

DECOMMISSIONING/DEMOLITION

EXISTING STANDS ARE LIKELY TO CONTAIN ASBESTOS. REFER TO ASBESTOS REGISTER. GROUND CONTAMINATION SURVEY HAS BEEN UNDERTAKEN. REFER TO SURVEY FOR FURTHER INFORMATION.

Notes

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES, DRAWINGS, SCHEDULES AND SPECIFICATIONS, LEGENDS AND STANDARD DETAILS.
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8. THIS DRAWING SHOWS THE DESIGN INTENT ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL CO-ORDINATION OF THE SERVICES INDICATED ON THIS AND ALL OTHER SERVICES DRAWINGS.
9. THE PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT TECHNICAL SPECIFICATIONS.
10. WHERE MECHANICAL SERVICES PASS THROUGH FIRE COMPARTMENTATION CEILING VOIDS, FLOOR VOIDS AND STRUCTURAL WALLS THE CONTRACTOR SHALL SLEEVE/SEAL THE OPENING WITH AN ACOUSTIC AND FIRE SEALANT APPROVED BY THE BRITISH MUSEUM'S FRAMEWORK FIRE CONSULTANT.
11. THE CONTRACTOR SHALL REFER TO THE BRITISH MUSEUM'S UP TO DATE FIRE COMPARTMENTATION DRAWINGS.

00	FOR TENDER	04.12.20	CC	SC
Rev	Description	Date	Dwn	Ch'd

TENDER

Status of drawing

BUROHAPPOLD ENGINEERING

Architect N/A

Project British Museum - Pizzeria Ventilation

Dwg Title BUILDERS WORK DRAWING

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Date 04.12.2020	Rev 00

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Project: British Museum - Pizzeria Ventilation
Drawing: BUILDERS WORK DRAWING
Date: 04.12.2020
Rev: 00