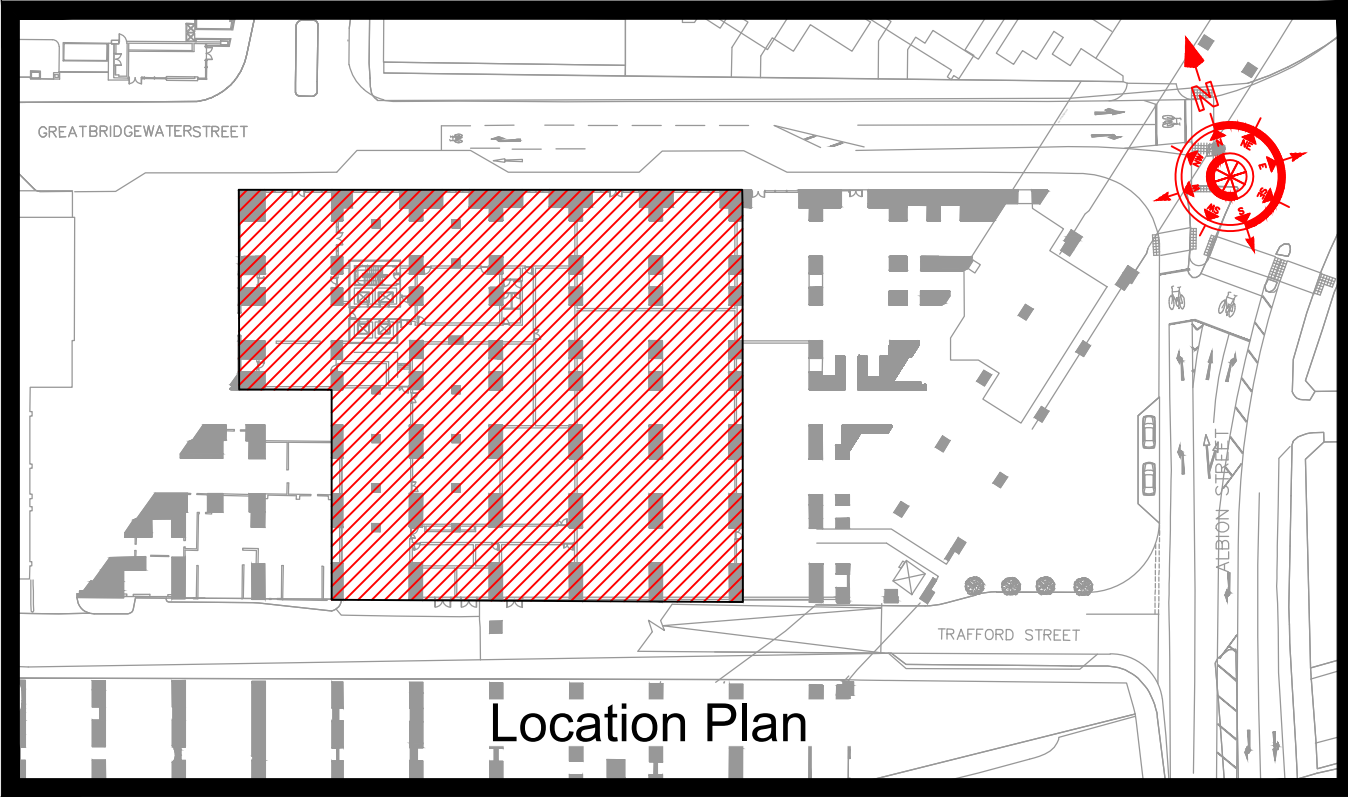
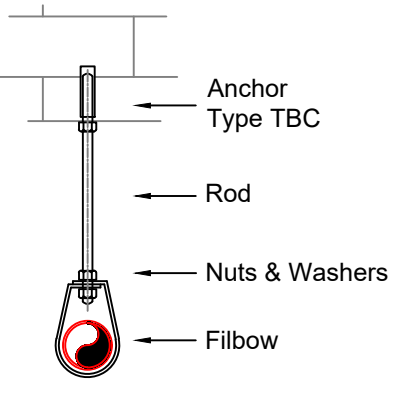


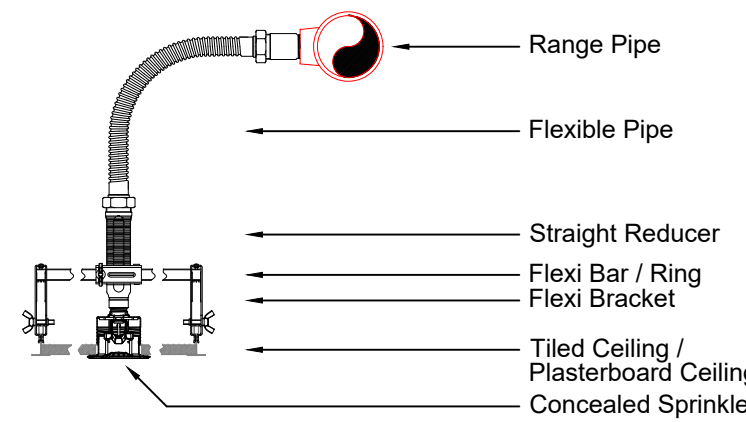


Bracket Detail: NTS



PIPE Ø	FIXING Ø	QTY
25	M10	tbc
32	M10	tbc
40	M10	tbc
50	M10	tbc
65	M10	tbc

Flexi Arm Pipe Detail: NTS



Notes:

Hydraulic Demand: 000 l/min @ 0.000 Bar

Pipework Type / Supplier: Steel

Please Ensure That any Materials In Contact With Pipework & Fittings Are On The Manufacturers Approved List.

Areas Without Sprinkler Protection:

(Areas Highlighted in Magenta)

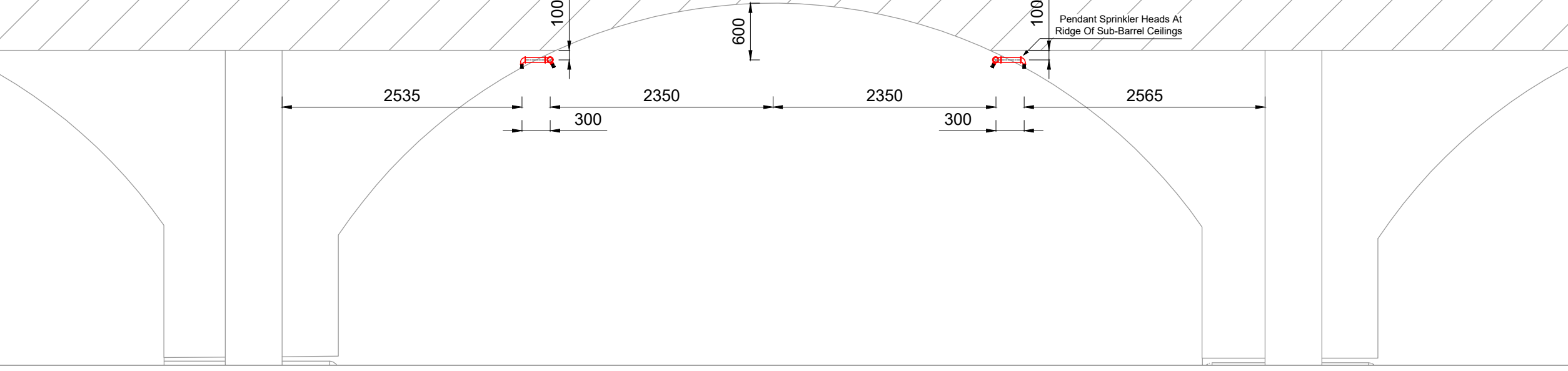
Areas As Per Design Fire Consultants Fire Strategy Report Rev.02 - 05/08/2021

All external balconies, communal corridors, staircases & stairwells.

Bathrooms with a floor area less than 5m².

Cupboards & pantries with a floor area of less than 2m² or where the least dimension does not exceed 1m.

Section AA: 1:50



Plan: Ground Level 00 Pipework 1:100

Pipe Sizes Shown Are Indicative - System Requires Full Hydraulic Calculations.

Full Hydraulic Calculations To Be Completed Upon Confirmation Of Sprinkler Head Locations & Completion Of Pipework Coordination With Other Services.



Legend

- Sidewall Sprinkler Head
- Pendant Sprinkler Head
- Upright / Void Sprinkler Head
- False Ceiling / Rise To Sprinkler Head
- Sprinkler with Guard
- Pendant Cut-Off Sprinkler Head
- Upright Cut-Off Sprinkler Head
- Design Point Location
- Section Arrow
- Flow Switch
- From Above
- Rise(Ø) x (Dimension)
- Pipe Level
- Drain Valve c/w Notes
- Flushing Valve c/w Notes
- Flushing Connection
- Pipe Support Type / Location
- Grooved Coupling
- Monitored Stop Valve
- Zone Check Unit
- Drainage Slope Direction
- Elevation Arrow
- To Cut
- From Below
- Drop(Ø) x (Dimension)

Design Criteria

Design Standard:	BS9251:2014
Hydraulic Calculations:	FHC
Hazard Category:	Residential
Protection Type:	Property Protection
System Category:	Cat. 03
Maximum Stack Height:	n/a
Clearance Above Stack:	n/a
Discharge Density:	2.600mm/min
Area Of Operation:	4 Sprinkler Heads In Operation
Design Spacing / Area:	25m²
Valve Set Manufacturer, Size & Type:	n/a
Installation Control Valve Number:	n/a
Highest Sprinkler:	TBC

General Notes

- Supports to be installed to BS9251:2014.
- Tube and fittings to be CPVC, unless otherwise stated, and conform to BS9252.
- Tube in Exposed Areas to be Red medium grade, plain ended, unless otherwise stated and conform to BS EN 10255.
- Screwed fittings to be Malleable Iron Black and conform to BS143 / BS-EN10241.
- Galvanised fittings to be noted on drawing and conform to BS1256.
- Welded fittings to conform to BS EN 10253.
- Flanged Joints to conform to BS4504 Part 1 PN16 (Unless Noted Otherwise.)
- Rolled Grooved Joints to be installed in accordance with the Manufacturers instructions and should be LPCB approved.
- Sprinkler deflector to be installed parallel to the roof/ceiling.
- Holes in walls, floors etc in which pipes pass through must not be filled in with materials which could have a detrimental effect on the pipework. Cutting of holes is the clients responsibility unless instructed otherwise.
- Sprinklers must not be subjected to ambient temperatures exceeding 20°C below their rating.
- Client to ensure this drawing is co-ordinated with other services.
- All dimensions shown are centre line to centre line of pipe.
- This drawing is not to be scaled, if in doubt please ask for dimensions.
- All Sprinklers, Valves and Controls to be installed upright unless noted otherwise.
- AM Fire Systems Ltd do not accept responsibility for damage by frost. Clients should take adequate precautions against water in valves and pipework from freezing during severe weather. Temperature should be maintained above 4°C.
- Sprinklers should never be painted and may have detrimental effect on the discharge pattern in the event of a fire.
- Pipework, fittings etc should be painted in accordance with Specification.
- Pipework to be earthed and bonded in accordance with the requirements of IEE regulations (by client.)
- All Wet systems to have pipework to slope to drain.
- Pipework to be fabricated in accordance with issued drawings as indicated on our Purchase Order. A drawing marked up with fabrication section number is to be supplied. Welding/painting standards should conform to the relevant standard. Welders should be approved to BS-EN287-1.
- Set in Type Branches or sockets are not permitted, along with cut & shut bends. Pipework to be delivered with open ends capped or plugged. Pipe required to be Galvanised, & should be not dipped to BS EN ISO 1461.

Pipe Weights / m (Full)

Pipe Ø	CPVC Pipe BS9252	Steel Pipe BS EN 10255		
		Black Medium	Black Heavy	Galvanised Medium
20	0.64	2.86	3.17	2.93
25	1.00	3.04	3.51	3.12
32	1.61	4.18	4.79	4.28
40	2.11	5.04	5.75	5.15
50	3.31	7.37	8.31	7.51
65	4.84	10.34	11.55	10.58
80	7.19	13.74	15.13	13.95
100	/	21.08	23.12	21.36
150	/	38.72	40.55	39.12

Sprinkler Schedule

Area Reference	No	Type	Temp °C	Roof/Ceiling Construction
False Ceilings	25	Rapid Response VNT OR / Concealed SSP / White	72	Comb.
Exposed soffits	144	Rapid Response VNT OR / Pendant SSP / Brass	68	Non-Comb.

Total:	169			
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Revision

Ref	Description	Date	By
P01	Issue For Preliminary Information - Concept Drawing	26.02.21	DB
P02	Issue For Preliminary Information	01.04.21	LD
P03	Issue For Preliminary Information - Stage 04 GA & Fire Strategy Amendments.	31.08.21	DB

Status: - Preliminary Information

Client: Aberla

Project: Viadux Manchester

Title: Automatic Sprinkler Protection: Sprinkler Head & Pipework Layout, Ground Level 00

Date: 24.02.21
Drawing No: 9418_02_00
Scale: 1:100 @ A0

Designed By: DB

Checked By: AJE

On/Off: 9418



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