

PIPE SIZES UNLESS OTHERWISE STATED:  
TO BE CONFIRMED

ANY CHANGES THAT INCLUDES A CEILING MOUNTED  
ITEM CLOSER THAN 1000MM TO A SPRINKLER MUST  
HAVE APPROVAL FROM THE SPRINKLER DESIGNER.

TRACE HEATING & LAGGING TO BE INSTALLED BY  
SPRINKLER CONTRACTOR, HOWEVER POWER  
SUPPLIES TO BE PROVIDED BY OTHERS

DESIGN CALCULATIONS							
SPRINKLER LOCATION	AREA OF OPERATION	DEMAND	HEAD TYPE	DYN. PRESSURE (bar)	FLOW RATE (l/min)	M.H.D	M.H.F
1	-	2 HEAD	RAPIDROP RD208	-	-	-	-

APPROVAL CHART	
RESIDENTIAL CONCEALED PENDANT SPRINKLER RD208 K=70.6 (4.9)	
MAXIMUM AREA OF COVERAGE	MINIMUM WATER SUPPLY REQUIREMENTS
3.7m x 3.7m	49.2 l/min@0.48 bar
4.3m x 4.3m	49.2 l/min@0.48 bar
4.9m x 4.9m	49.2 l/min@0.48 bar
5.5m x 5.5m	64.4 l/min@0.83 bar
6.1m x 6.1m	75.7 l/min@1.27 bar










<b>PROJECT ID:</b>		10057
<b>DESIGN CRITERIA:</b>		
<b>SYSTEM DESIGN RULES</b>	BS9251:2021	
<b>SOURCE &amp; DURATION</b>	TOWN MAIN SUPPLY - 30 MINUTES	
<b>COMPENSATORY FEATURES</b>	N/A	
<b>ALARM</b>	INTERFACED WITH FIRE ALARM	
<b>FIRE STOPPING MATERIAL</b>	T. B.C	

DESIGN DETAIL:	RESIDENTIAL AREAS:	NON RESIDENTIAL AREAS:
CATEGORY (BS9251:2021 TABLE 1)	2	-
TABLE (1,3,4)	1	-
HEAD STANDARD	UL1626	-
DENSITY mm/min (l/min/M2)	2.8	-
SPRINKLER PIPEWORK	CPVC	-
MINIMUM SPRINKLER PRESSURE	0.50 BAR	-
MINIMUM SPRINKLER SPACING	2.4M	-
MAXIMUM AREA/HEAD (M2)	25	-

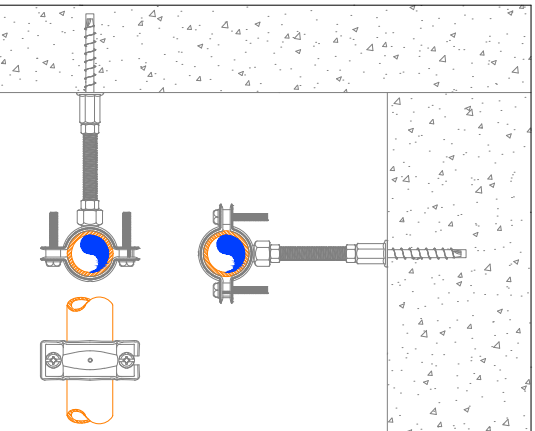
SYSTEM ENHANCEMENTS	
WATER SUPPLY ARRANGEMENT	-
POWER SUPPLY CONFIG.	-
DURATION	-
DENSITY mm/min (l/min/M2)	-
F.B. INLET	-
REMOTE MONITORING	-

DEPARTURE FROM RULES / CLAUSES USED:	AHJ AGREEMENT
CORRIDOR PROTECTION	TO BE CONFIRMED / DEVIATION
-	-
-	-
-	-

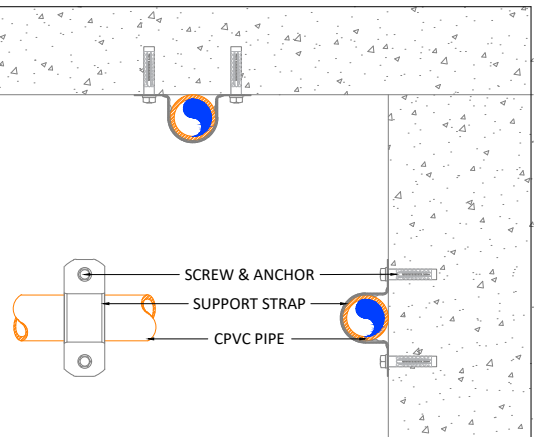
HANGERS AND SUPPORTS SPACING ( METERS)		
NOMINAL PIPE SIZE: (MILLIMETERS)	CPVC	MEDIUM WEIGHT STEEL
(20)	(1.7)	(2.4)
(25)	(1.8)	(2.4)
(32)	(2.0)	(2.0)
(40)	(2.1)	(2.1)
(50)	(2.4)	(2.4)
(65)	(2.7)	(2.7)
(80)	(3.0)	(3.0)

DRAWING LEGENDS & NOTES					
					SPRINKLER: CONCEALED / PENDANT / UPRIGHT / SIDEWALL / LOW FLOW
		SPRINKLER VALVE GROUP		CPVC PIPE/RISER	
				MEDIUM WEIGHT STEEL PIPE/RISER	

### PIPE CLAMP FOR CPVC PIPE



### TWO HOLE STRAP FOR CPVC PIPE



A02	SPRINKLER POSITIONS AMENDED AS PER COMMENTS		C.A.B	D.C.R	19/05/23
REV.	REVISION DETAIL		DRN.	CHK'D	DATE
DRAWING STATUS: <b>FOR APPROVAL</b>			SCALE: <b>1:50</b>	SIZE: <b>A1</b>	
DRAWING NUMBER: <b>TFS-RS-10057-0L001</b>				REV: <b>A02</b>	



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**www.trianglesprinklersystems.co.uk**

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**DRAWING TITLE:**  
SPRINKLER LAYOUT  
GROUND FLOOR  
ANNEXE



**PROJECT:**  
THE HOO: SCHEME 3  
17 LYNTHURST GARDENS  
HAMPSTEAD, LONDON, NW3 5NU

**CLIENT:**  
SCOTCH PARTNERS LLP  
90 HIGH HOLBORN  
LONDON, WC1V 6LJ

**DRAWN:**

DATE: 10/05/23

**CHECKED:**

DATE:  
18/05/23

APP: 453

DATE: 18/05/2018

**CLIENT INFORMATION:**

PLEASE REVIEW THIS DRAWING AND ADVISE TRIANGLE FIRE SYSTEMS LTD BY RETURN IF YOU WISH TO MAKE ANY COMMENTS, OR ARE AWARE OF ANY FACTORS THAT MAY AFFECT OUR DESIGN LAYOUT OR INSTALLATION. N.B., POSITIONING OF SPRINKLERS IS CRITICAL TO ENSURE COMPLIANCE WITH DESIGN STANDARD. PLEASE FORWARD THIS DRAWING TO ALL PARTIES INVOLVED IN THE DESIGN APPROVAL PROCESS INCLUDING THE AUTHORITY HAVING JURISDICTION E.G. FIRE OFFICER, BUILDING CONTROL ETC.

INFORMATION THAT EFFECTS THE TIMELY COMPLETION OF OUR DESIGNS OR RESULT IN CHANGES TO THE ORIGINAL SCOPE OF WORK WILL BE RECORDED AND PROCESSED AS A VARIATION TO THE ORIGINAL CONTRACT.

SPRINKLERS & COVER PLATES MUST NOT BE PAINTED.

SPRINKLER PIPE ROUTES HAVE BEEN CO-ORDINATED WITH THE INFORMATION PROVIDED PIPE ROUTES MAY VARY ON SITE.

**EXTERNAL DRAWING REFERENCE:**

ARCH: 6431 Annexe - Lighting Layout

ELECTRICAL: -

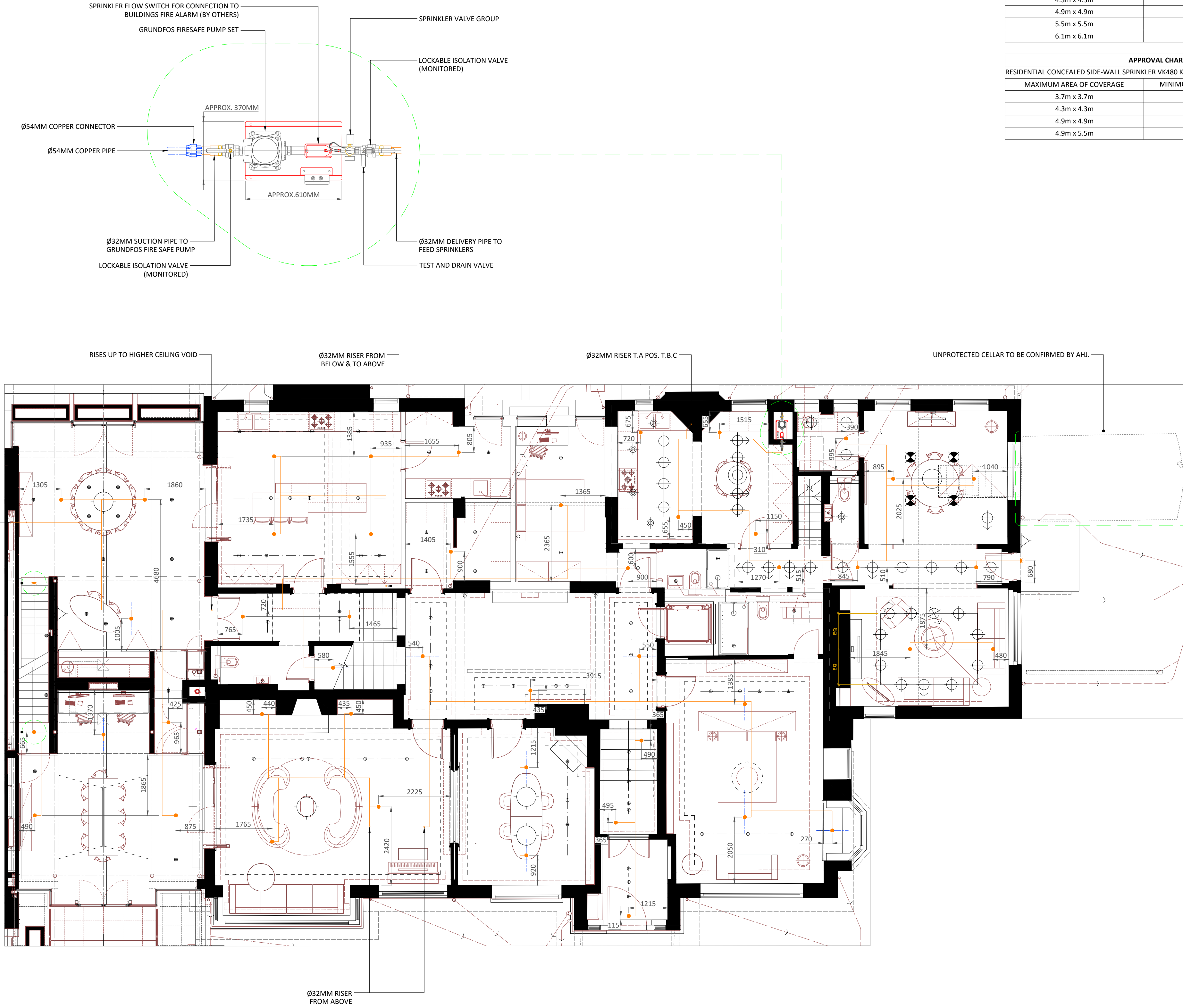
**MECHANICAL: -**



PIPE SIZES UNLESS OTHERWISE STATED:  
TO BE CONFIRMED

ANY CHANGES THAT INCLUDES A CEILING MOUNTED  
ITEM CLOSER THAN 1000MM TO A SPRINKLER MUST  
HAVE APPROVAL FROM THE SPRINKLER DESIGNER.

TRACE HEATING & LAGGING TO BE INSTALLED BY  
SPRINKLER CONTRACTOR, HOWEVER POWER  
SUPPLIES TO BE PROVIDED BY OTHERS



DESIGN CALCULATIONS						
SPRINKLER LOCATION	AREA OF OPERATION	DEMAND	HEAD TYPE	DYN. PRESSURE (bar)	FLOW RATE (l/min)	M.H.D
1	-	2 HEAD	RAPIDROP RD208	-	-	-

APPROVAL CHART	
RESIDENTIAL CONCEALED PENDANT SPRINKLER RD208 K=70.6 (4.9)	
MAXIMUM AREA OF COVERAGE	MINIMUM WATER SUPPLY REQUIREMENTS
3.7m x 3.7m	49.2 l/min@0.48 bar
4.3m x 4.3m	49.2 l/min@0.48 bar
4.9m x 4.9m	49.2 l/min@0.48 bar
5.5m x 5.5m	64.4 l/min@0.83 bar
6.1m x 6.1m	75.7 l/min@1.27 bar

APPROVAL CHART	
RESIDENTIAL CONCEALED SIDE-WALL SPRINKLER VK480 K=57.7 (4.0), INSTALLED (112-162mm B.C)	
MAXIMUM AREA OF COVERAGE	MINIMUM WATER SUPPLY REQUIREMENTS
3.7m x 3.7m	41.7 l/min@0.52 bar
4.3m x 4.3m	49.3 l/min@0.73 bar
4.9m x 4.9m	60.6 l/min@1.1 bar
4.9m x 5.5m	64.4 l/min@1.25 bar

PROJECT ID: 10057

DESIGN CRITERIA:

SYSTEM DESIGN RULES	BS9251:2021
SOURCE & DURATION	TOWN MAIN SUPPLY - 30 MINUTES
COMPENSATORY FEATURES	N/A
ALARM	INTERFACED WITH FIRE ALARM
FIRE STOPPING MATERIAL	T.B.C

DESIGN DETAIL:	RESIDENTIAL AREAS:	NON RESIDENTIAL AREAS:
CATEGORY (BS9251:2021 TABLE 1)	2	-
TABLE (1,3,4)	1	-
HEAD STANDARD	UL1626	-
DENSITY mm/min (l/min/M2)	2.8	-
SPRINKLER PIPEWORK	CPVC	-
MINIMUM SPRINKLER PRESSURE	0.50 BAR	-
MINIMUM SPRINKLER SPACING	2.4M	-
MAXIMUM AREA/HEAD (M2)	25	-

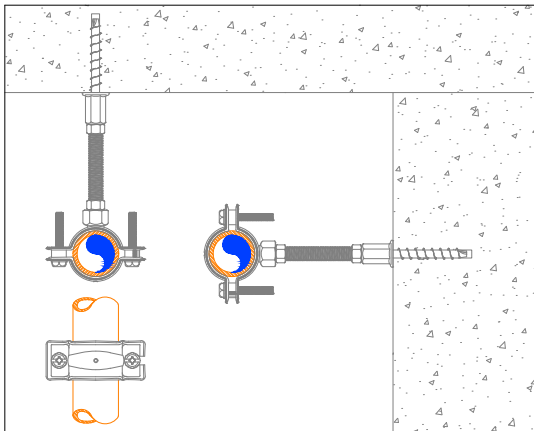
SYSTEM ENHANCEMENTS	
WATER SUPPLY ARRANGEMENT	-
POWER SUPPLY CONFIG.	-
DURATION	-
DENSITY mm/min (l/min/M2)	-
F.B. INLET	-
REMOTE MONITORING	-

DEPARTURE FROM RULES / CLAUSES USED:	AHJ AGREEMENT
CORRIDOR PROTECTION	TO BE CONFIRMED / DEVIATION
-	-
-	-
-	-

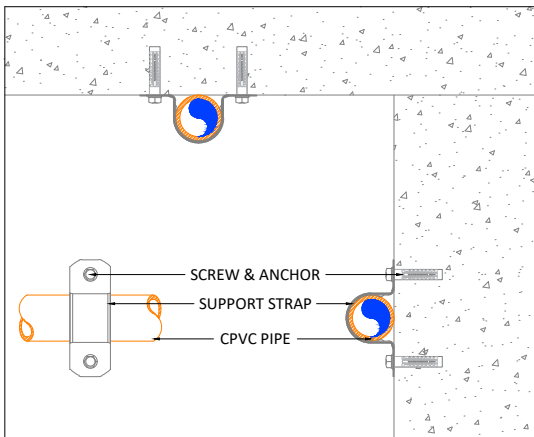
HANGERS AND SUPPORTS SPACING (METERS)		
NOMINAL PIPE SIZE: (MILLIMETERS)	CPVC	MEDIUM WEIGHT STEEL
(20)	(1.7)	(2.4)
(25)	(1.8)	(2.4)
(32)	(2.0)	(2.0)
(40)	(2.1)	(2.1)
(50)	(2.4)	(2.4)
(65)	(2.7)	(2.7)
(80)	(3.0)	(3.0)

DRAWING LEGENDS & NOTES	
	SPRINKLER: CONCEALED / PENDANT / UPRIGHT / SIDEWALL / LOW FLOW
	SPRINKLER VALVE GROUP
	CPVC PIPE/RISER
	MEDIUM WEIGHT STEEL PIPE/RISER

PIPE CLAMP FOR CPVC PIPE



TWO HOLE STRAP FOR CPVC PIPE



A07	LATEST GA'S INCORPORATED	C.A.B	A.P.M	22/05/23
A06	BOOSTER PUMP INCORPORATED	C.A.B	A.P.M	28/09/22
A05	COMMENTS INCORPORATED	C.A.B	A.P.M	06/09/22
A04	COMMENTS INCORPORATED	C.A.B	A.P.M	17/08/22
A03	DRAWING BORDERS AMENDED	C.A.B	A.P.M	22/07/22

A02	UPDATED LAYOUTS INCORPORATED			
	SPRINKLER HEADS & PIPE ROUTES			
	AMENDED AS PER SITE VISIT			
	SPRINKLER PROTECTION OMITTED FROM THE ANNEXE	C.A.B	A.P.M	24/02/22
	SPRINKLER POSITIONS AMENDED UTILISING ROOM SECTIONS			

REV.	REVISION DETAIL	DRN.	CHK'D	DATE
DRAWING STATUS:		SCALE:	SIZE:	
FOR APPROVAL		1:75	A1	
DRAWING NUMBER:			REV:	
TFS-RS-10057-0L002			A07	



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SUPPLIES TO BE PROVIDED BY OTHERS

DESIGN CALCULATIONS						
SPRINKLER LOCATION	AREA OF OPERATION	DEMAND	HEAD TYPE	DYN. PRESSURE (bar)	FLOW RATE (l/min)	M.H.D
1	-	2 HEAD	RAPIDROP RD208	-	-	-

APPROVAL CHART	
RESIDENTIAL CONCEALED PENDANT SPRINKLER RD208 K=70.6 (4.9)	
MAXIMUM AREA OF COVERAGE	MINIMUM WATER SUPPLY REQUIREMENTS
3.7m x 3.7m	49.2 l/min@0.48 bar
4.3m x 4.3m	49.2 l/min@0.48 bar
4.9m x 4.9m	49.2 l/min@0.48 bar
5.5m x 5.5m	64.4 l/min@0.83 bar
6.1m x 6.1m	75.7 l/min@1.27 bar

PROJECT ID: 10057





DESIGN CRITERIA:	
SYSTEM DESIGN RULES	BS9251:2021
SOURCE & DURATION	TOWN MAIN SUPPLY - 30 MINUTES
COMPENSATORY FEATURES	N/A
ALARM	INTERFACED WITH 240V SMOKE
FIRE STOPPING MATERIAL	T.B.C

DESIGN DETAIL:	RESIDENTIAL AREAS:	NON RESIDENTIAL AREAS:
CATEGORY (BS9251:2021 TABLE 1)	2	-
TABLE (1,3,4)	1	-
HEAD STANDARD	UL1626	-
DENSITY mm/min (l/min/M2)	2.8	-
SPRINKLER PIPEWORK	CPVC	-
MINIMUM SPRINKLER PRESSURE	0.50 BAR	-
MINIMUM SPRINKLER SPACING	2.4M	-
MAXIMUM AREA/HEAD (M2)	25	-

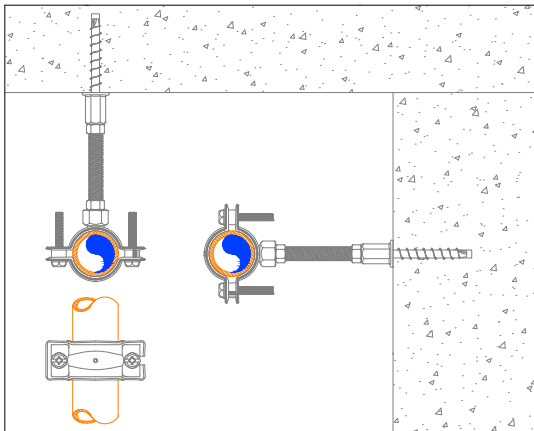
SYSTEM ENHANCEMENTS	
WATER SUPPLY ARRANGEMENT	-
POWER SUPPLY CONFIG.	-
DURATION	-
DENSITY mm/min (l/min/M2)	-
F.B. INLET	-
REMOTE MONITORING	-

DEPARTURE FROM RULES / CLAUSES USED:	AHJ AGREEMENT
CORRIDOR PROTECTION	TO BE CONFIRMED / DEVIATION
-	-
-	-
-	-

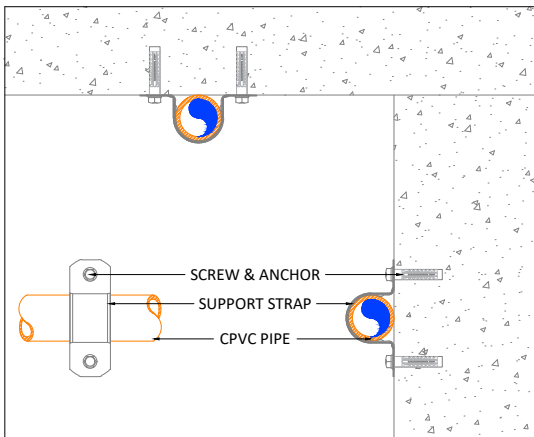
HANGERS AND SUPPORTS SPACING (METERS)		
NOMINAL PIPE SIZE: (MILLIMETERS)	CPVC	MEDIUM WEIGHT STEEL
(20)	(1.7)	(2.4)
(25)	(1.8)	(2.4)
(32)	(2.0)	(2.0)
(40)	(2.1)	(2.1)
(50)	(2.4)	(2.4)
(65)	(2.7)	(2.7)
(80)	(3.0)	(3.0)

DRAWING LEGENDS & NOTES	
 SPRINKLER: CONCEALED / PENDANT / UPRIGHT / SIDEWALL / LOW FLOW	 CPVC PIPE/RISER
 SPRINKLER VALVE GROUP	 MEDIUM WEIGHT STEEL PIPE/RISER

PIPE CLAMP FOR CPVC PIPE



TWO HOLE STRAP FOR CPVC PIPE



A08	PIPE ROUTE AMENDED	C.A.B	A.P.M	02/06/23
A07	LATEST GA'S INCORPORATED	C.A.B	A.P.M	22/05/23
A06	FLOOR VOID PIPE ROUTES AMENDED	C.A.B	A.P.M	28/09/22
A05	COMMENTS INCORPORATED	C.A.B	A.P.M	06/09/22
A04	COMMENTS INCORPORATED	C.A.B	A.P.M	17/08/22
A03	DRAWING BORDERS AMENDED	C.A.B	A.P.M	19/07/22
	UPDATED LAYOUTS INCORPORATED			
	SPRINKLER HEADS & PIPE ROUTES			
	AMENDED AS PER SITE VISIT			
A02	SPRINKLER PROTECTION OMITTED FROM THE ANNEXE	C.A.B	A.P.M	24/02/22
	SPRINKLER POSITIONS AMENDED			
	UTILISING ROOM SECTIONS			

REV.	REVISION DETAIL	DRN.	CHK'D	DATE
DRAWING STATUS:		SCALE:	SIZE:	
FOR APPROVAL		1:75	A1	
DRAWING NUMBER:			REV:	
TFS-RS-10057-0L012			A08	



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DRAWING TITLE:  
SPRINKLER LAYOUT  
FIRST FLOOR  
RESIDENTIAL HIGH FLOW DESIGN  
PROJECT:  
THE HOO: SCHEME 3  
17 LYNDRURST GARDENS  
HAMPSTEAD, LONDON, NW3 5NU

CLIENT:  
SCOTCH PARTNERS LLP  
90 HIGH HOLBORN  
LONDON, WC1V 6LJ  
DRAWN: C.A.B  
CHECKED: A.P.M  
APP: A.P.M  
DATE: 01/09/21  
DATE: 03/09/21  
DATE: 03/09/21

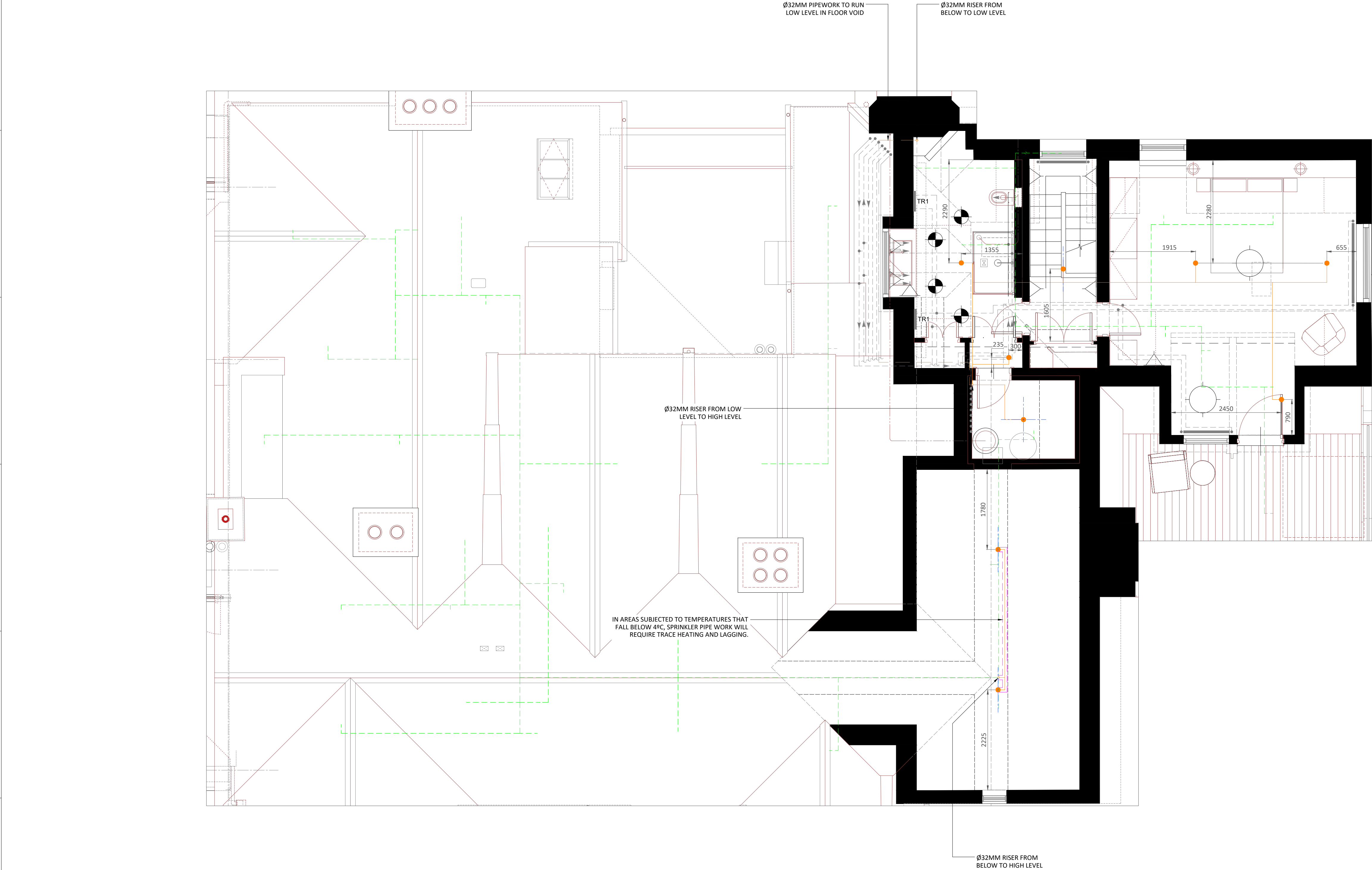
CLIENT INFORMATION:  
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EXTERNAL DRAWING REFERENCE:  
ARCH: 2122 General Arrangement - First Floor Layout as Proposed  
ELECTRICAL: 6533 - Main House - Lighting Layout First Floor  
6631 - Link - Lighting Layout  
6731 - Lodge - Lighting Layout  
MECHANICAL: 5243-SP-LI-ZZ-DR-Z-400



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TRACE HEATING & LAGGING TO BE INSTALLED BY SPRINKLER CONTRACTOR, HOWEVER POWER SUPPLIES TO BE PROVIDED BY OTHERS



DESIGN CALCULATIONS						
SPRINKLER LOCATION	AREA OF OPERATION	DEMAND	HEAD TYPE	DYN. PRESSURE (bar)	FLOW RATE (l/min)	M.H.D
1	-	2 HEAD	RAPIDROP RD208	-	-	-

APPROVAL CHART	
RESIDENTIAL CONCEALED PENDANT SPRINKLER RD208 K=70.6 (4.9)	
MAXIMUM AREA OF COVERAGE	MINIMUM WATER SUPPLY REQUIREMENTS
3.7m x 3.7m	49.2 l/min@0.48 bar
4.3m x 4.3m	49.2 l/min@0.48 bar
4.9m x 4.9m	49.2 l/min@0.48 bar
5.5m x 5.5m	64.4 l/min@0.83 bar
6.1m x 6.1m	75.7 l/min@1.27 bar

PROJECT ID: 10057

DESIGN CRITERIA:	
SYSTEM DESIGN RULES	BS9251:2021
SOURCE & DURATION	TOWN MAIN SUPPLY - 30 MINUTES
COMPENSATORY FEATURES	N/A
ALARM	INTERFACED WITH 240V SMOKE
FIRE STOPPING MATERIAL	T.B.C

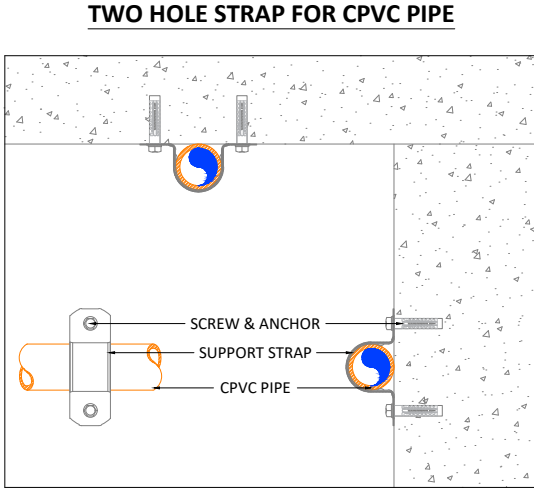
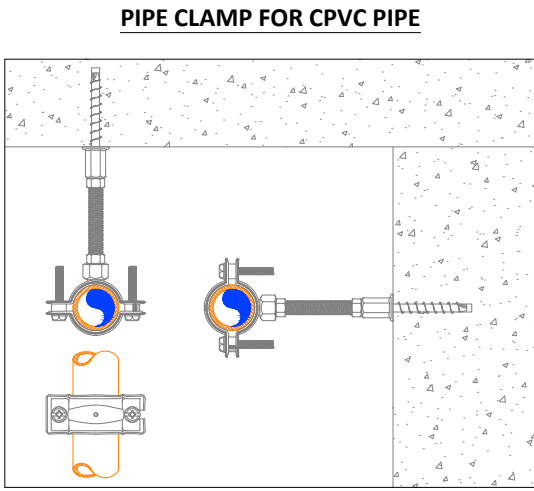
DESIGN DETAIL:	RESIDENTIAL AREAS:	NON RESIDENTIAL AREAS:
CATEGORY (BS9251:2021 TABLE 1)	2	-
TABLE (1,3,4)	1	-
HEAD STANDARD	UL1626	-
DENSITY mm/min (l/min/M2)	2.8	-
SPRINKLER PIPEWORK	CPVC	-
MINIMUM SPRINKLER PRESSURE	0.50 BAR	-
MINIMUM SPRINKLER SPACING	2.4M	-
MAXIMUM AREA/HEAD (M2)	25	-

SYSTEM ENHANCEMENTS	
WATER SUPPLY ARRANGEMENT	-
POWER SUPPLY CONFIG.	-
DURATION	-
DENSITY mm/min (l/min/M2)	-
F.B. INLET	-
REMOTE MONITORING	-

DEPARTURE FROM RULES / CLAUSES USED:	AHJ AGREEMENT
CORRIDOR PROTECTION	TO BE CONFIRMED / DEVIATION
-	-
-	-
-	-

HANGERS AND SUPPORTS SPACING (METERS)		
NOMINAL PIPE SIZE: (MILLIMETERS)	CPVC	MEDIUM WEIGHT STEEL
(20)	(1.7)	(2.4)
(25)	(1.8)	(2.4)
(32)	(2.0)	(2.0)
(40)	(2.1)	(2.1)
(50)	(2.4)	(2.4)
(65)	(2.7)	(2.7)
(80)	(3.0)	(3.0)

DRAWING LEGENDS & NOTES	
	SPRINKLER: CONCEALED / PENDANT / UPRIGHT / SIDEWALL / LOW FLOW
	CPVC PIPE/RISER
	MEDIUM WEIGHT STEEL PIPE/RISER
	SPRINKLER VALVE GROUP



A08	PIPE ROUTE AMENDED	C.A.B	A.P.M	02/06/23
A07	LATEST GA'S INCORPORATED	C.A.B	A.P.M	22/05/23
A06	MAIN HOUSE ROOF LAYOUT INC.	C.A.B	A.P.M	28/09/22
A05	COMMENTS INCORPORATED	C.A.B	A.P.M	06/09/22
A04	COMMENTS INCORPORATED	C.A.B	A.P.M	17/08/22
A03	DRAWING BORDERS AMENDED	C.A.B	A.P.M	19/07/22

A02	UPDATED LAYOUTS INCORPORATED	C.A.B	A.P.M	24/02/22
	SPRINKLER HEADS & PIPE ROUTES AMENDED AS PER SITE VISIT			
	SPRINKLER PROTECTION OMITTED FROM THE ANNEXE			
	SPRINKLER POSITIONS AMENDED UTILISING ROOM SECTIONS			

REV.	REVISION DETAIL	DRN.	CHK'D	DATE
DRAWING STATUS:		SCALE:		SIZE:
FOR APPROVAL		1:50		A1
DRAWING NUMBER:		REV:		
TFS-RS-10057-0L022		A08		

	HAYWOOD WAY, NORTH RIDGE IND. EST, HASTINGS, EAST SUSSEX, TN35 4PL TEL: 01424 812557 FAX: 01424 428697 info@trianglefiresystems.co.uk www.trianglefiresystems.co.uk				DRAWING TITLE: SPRINKLER LAYOUT SECOND FLOOR RESIDENTIAL HIGH FLOW DESIGN		CLIENT: SCOTCH PARTNERS LLP 90 HIGH HOLBORN LONDON, WC1V 6LJ		CLIENT INFORMATION: PLEASE REVIEW THIS DRAWING AND ADVISE TRIANGLE FIRE SYSTEMS LTD BY RETURN IF YOU WISH TO MAKE ANY COMMENTS, OR ARE AWARE OF ANY FACTORS THAT MAY AFFECT OUR DESIGN LAYOUT OR INSTALLATION. N.B., POSITIONING OF SPRINKLERS IS CRITICAL TO ENSURE COMPLIANCE WITH DESIGN STANDARD. PLEASE FORWARD THIS DRAWING TO ALL PARTIES INVOLVED IN THE DESIGN APPROVAL PROCESS INCLUDING THE AUTHORITY HAVING JURISDICTION E.G. FIRE OFFICER, BUILDING CONTROL ETC. INFORMATION THAT EFFECTS THE TIMELY COMPLETION OF OUR DESIGNS OR RESULT IN CHANGES TO THE ORIGINAL SCOPE OF WORK WILL BE RECORDED AND PROCESSED AS A VARIATION TO THE ORIGINAL CONTRACT. SPRINKLERS & COVER PLATES MUST NOT BE PAINTED. SPRINKLER PIPE ROUTES HAVE BEEN CO-ORDINATED WITH THE INFORMATION PROVIDED PIPE ROUTES MAY VARY ON SITE.		EXTERNAL DRAWING REFERENCE: ARCH: 2123 General Arrangement - Second Floor Layout as Proposed  ELECTRICAL: 6731 - Lodge - Lighting Layout  MECHANICAL: 5243-SP-LO-ZR-DR-Z-400	
	THIS DRAWING IS CONFIDENTIAL AND MUST NOT BE COPIED EITHER IN PART OR FULL WITHOUT THE WRITTEN CONSENT OF TRIANGLE FIRE SYSTEM LTD. <b>DO NOT SCALE OFF DRAWING</b>				PROJECT: THE HOO: SCHEME 3 17 LYNDHURST GARDENS HAMPSTEAD, LONDON, NW3 5NU		DRAWN: C.A.B DATE: 01/09/21		CHECKED: A.P.M DATE: 03/09/21		APP: A.P.M DATE: 03/09/21	

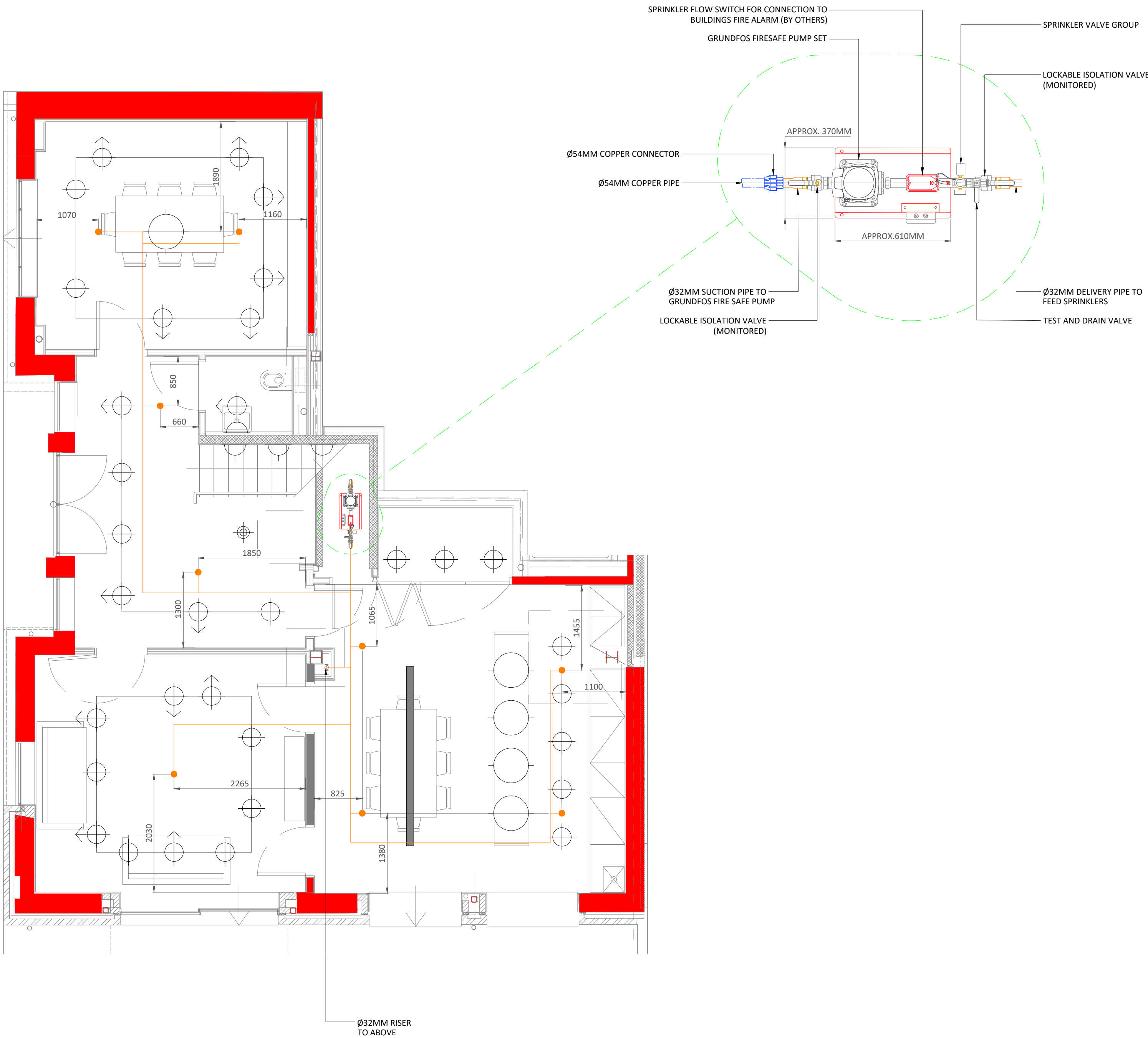
PIPE SIZES UNLESS OTHERWISE STATED:  
TO BE CONFIRMED

ANY CHANGES THAT INCLUDES A CEILING MOUNTED  
ITEM CLOSER THAN 1000MM TO A SPRINKLER MUST  
HAVE APPROVAL FROM THE SPRINKLER DESIGNER.

TRACE HEATING & LAGGING TO BE INSTALLED BY  
SPRINKLER CONTRACTOR, HOWEVER POWER  
SUPPLIES TO BE PROVIDED BY OTHERS

DESIGN CALCULATIONS						
SPRINKLER LOCATION	AREA OF OPERATION	DEMAND	HEAD TYPE	DYN. PRESSURE (bar)	FLOW RATE (l/min)	M.H.D
1	-	2 HEAD	RAPIDROP RD208	-	-	-

APPROVAL CHART	
RESIDENTIAL CONCEALED PENDANT SPRINKLER RD208 K=70.6 (4.9)	
MAXIMUM AREA OF COVERAGE	MINIMUM WATER SUPPLY REQUIREMENTS
3.7m x 3.7m	49.2 l/min@0.48 bar
4.3m x 4.3m	49.2 l/min@0.48 bar
4.9m x 4.9m	49.2 l/min@0.48 bar
5.5m x 5.5m	64.4 l/min@0.83 bar
6.1m x 6.1m	75.7 l/min@1.27 bar



PROJECT ID: 10057

DESIGN CRITERIA:	
SYSTEM DESIGN RULES	BS9251:2021
SOURCE & DURATION	TOWN MAIN SUPPLY - 30 MINUTES
COMPENSATORY FEATURES	N/A
ALARM	INTERFACED WITH FIRE ALARM
FIRE STOPPING MATERIAL	T.B.C

DESIGN DETAIL:	RESIDENTIAL AREAS:	NON RESIDENTIAL AREAS:
CATEGORY (BS9251:2021 TABLE 1)	2	-
TABLE (1.3,4)	1	-
HEAD STANDARD	UL1626	-
DENSITY mm/min (l/min/M2)	2.8	-
SPRINKLER PIPEWORK	CPVC	-
MINIMUM SPRINKLER PRESSURE	0.50 BAR	-
MINIMUM SPRINKLER SPACING	2.4M	-
MAXIMUM AREA/HEAD (M2)	25	-

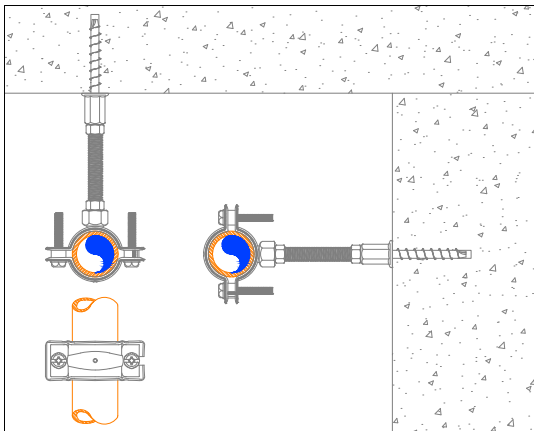
SYSTEM ENHANCEMENTS	
WATER SUPPLY ARRANGEMENT	-
POWER SUPPLY CONFIG.	-
DURATION	-
DENSITY mm/min (l/min/M2)	-
F.B. INLET	-
REMOTE MONITORING	-

DEPARTURE FROM RULES / CLAUSES USED:	AHJ AGREEMENT
CORRIDOR PROTECTION	TO BE CONFIRMED / DEVIATION
-	-
-	-
-	-

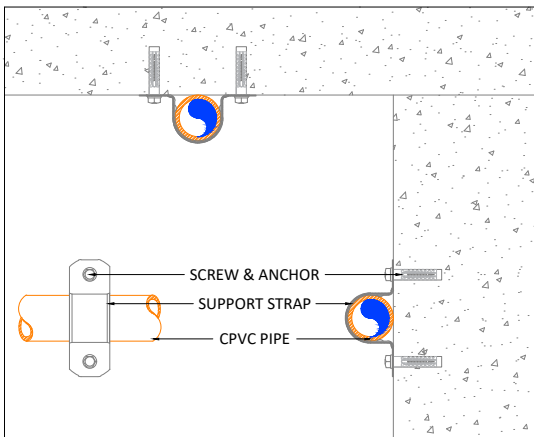
HANGERS AND SUPPORTS SPACING (METERS)		
NOMINAL PIPE SIZE: (MILLIMETERS)	CPVC	MEDIUM WEIGHT STEEL
(20)	(1.7)	(2.4)
(25)	(1.8)	(2.4)
(32)	(2.0)	(2.0)
(40)	(2.1)	(2.1)
(50)	(2.4)	(2.4)
(65)	(2.7)	(2.7)
(80)	(3.0)	(3.0)

DRAWING LEGENDS & NOTES	
	SPRINKLER: CONCEALED / PENDANT / UPRIGHT / SIDEWALL / LOW FLOW
	SPRINKLER VALVE GROUP
	CPVC PIPE/RISER
	MEDIUM WEIGHT STEEL PIPE/RISER

PIPE CLAMP FOR CPVC PIPE



TWO HOLE STRAP FOR CPVC PIPE





**SPECIALISTS IN FIRE SPRINKLERS & DRY RISERS**

**TRIANGLE FIRE SYSTEMS**

HAYWOOD WAY, NORTH RIDGE IND.  
EST, HASTINGS, EAST SUSSEX, TN35 4PL

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info@trianglefiresystems.co.uk

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**firas**



**BSA**

BSA (British Sprinkler Association)

DRAWING TITLE:  
SPRINKLER LAYOUT  
LOWER GROUND FLOOR  
ANNEXE

PROJECT:  
THE HOO: SCHEME 3  
17 LYNDHURST GARDENS  
HAMPSTEAD, LONDON, NW3 5NU

CLIENT: SCOTCH PARTNERS LLP 90 HIGH HOLBORN LONDON, WC1V 6LJ	DRAWN: C.A.B	CHECKED: J.E.B	APP: J.E.B
DATE: 10/05/23	DATE: 18/05/23	DATE: 18/05/23	

CLIENT INFORMATION:  
PLEASE REVIEW THIS DRAWING AND ADVISE TRIANGLE FIRE SYSTEMS LTD BY RETURN IF YOU WISH TO MAKE ANY COMMENTS, OR ARE AWARE OF ANY FACTORS THAT MAY AFFECT OUR DESIGN LAYOUT OR INSTALLATION. N.B., POSITIONING OF SPRINKLERS IS CRITICAL TO ENSURE COMPLIANCE WITH DESIGN STANDARD. PLEASE FORWARD THIS DRAWING TO ALL PARTIES INVOLVED IN THE DESIGN APPROVAL PROCESS INCLUDING THE AUTHORITY HAVING JURISDICTION E.G. FIRE OFFICER, BUILDING CONTROL ETC. INFORMATION THAT EFFECTS THE TIMELY COMPLETION OF OUR DESIGNS OR RESULT IN CHANGES TO THE ORIGINAL SCOPE OF WORK WILL BE RECORDED AND PROCESSED AS A VARIATION TO THE ORIGINAL CONTRACT. SPRINKLERS & COVER PLATES MUST NOT BE PAINTED. SPRINKLER PIPE ROUTES HAVE BEEN CO-ORDINATED WITH THE INFORMATION PROVIDED PIPE ROUTES MAY VARY ON SITE.

EXTERNAL DRAWING REFERENCE:  
ARCH: 6431 Annexe - Lighting Layout

ELECTRICAL: -

MECHANICAL: -

A02	SPRINKLER POSITIONS AMENDED AS PER COMMENTS	C.A.B	D.C.R	19/05/23
REV.	REVISION DETAIL	DRN.	CHK'D	DATE
DRAWING STATUS: <b>FOR APPROVAL</b>		SCALE: <b>1:50</b>	SIZE: <b>A1</b>	
DRAWING NUMBER: <b>TFS-RS-10057-0LLG1</b>				REV: <b>A02</b>



PIPE SIZES UNLESS OTHERWISE STATED:  
TO BE CONFIRMED

ANY CHANGES THAT INCLUDES A CEILING MOUNTED  
ITEM CLOSER THAN 1000MM TO A SPRINKLER MUST  
HAVE APPROVAL FROM THE SPRINKLER DESIGNER.

TRACE HEATING & LAGGING TO BE INSTALLED BY  
SPRINKLER CONTRACTOR, HOWEVER POWER  
SUPPLIES TO BE PROVIDED BY OTHERS

2

3

4

5

6

7

8



HAYWOOD WAY, NORTH RIDGE IND.  
EST, HASTINGS, EAST SUSSEX, TN35  
4PL  
TEL: 01424 812557 FAX: 01424 428697  
info@trianglefiresystems.co.uk  
www.trianglefiresystems.co.uk  
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TRIANGLE FIRE SYSTEM LTD.  
**DO NOT SCALE OFF DRAWING**



**DRAWING TITLE:**  
SPRINKLER LAYOUT  
LOWER GROUND FLOOR  
RESIDENTIAL HIGH FLOW DESIGN  
  
**PROJECT:**  
THE HOO: SCHEME 3  
17 LYNDHURST GARDENS  
HAMPSTEAD, LONDON, NW3 5NU

**CLIENT:**  
SCOTCH PARTNERS LLP  
90 HIGH HOLBORN  
LONDON, WC1V 6LJ  
  
**DRAWN:** C.A.B  
**CHECKED:** A.E.B  
**APP:** A.P.H  
  
**DATE:** 24/08/21  
**DATE:** 03/09/21  
**DATE:** 03/09/21

**CLIENT INFORMATION:**  
PLEASE REVIEW THIS DRAWING AND ADVISE TRIANGLE FIRE SYSTEMS LTD BY RETURN IF YOU WISH TO MAKE ANY COMMENTS, OR ARE AWARE OF ANY FACTORS THAT MAY AFFECT OUR DESIGN LAYOUT OR INSTALLATION. N.B., POSITIONING OF SPRINKLERS IS CRITICAL TO ENSURE COMPLIANCE WITH DESIGN STANDARD. PLEASE FORWARD THIS DRAWING TO ALL PARTIES INVOLVED IN THE DESIGN APPROVAL PROCESS INCLUDING THE AUTHORITY HAVING JURISDICTION E.G. FIRE OFFICER, BUILDING CONTROL ETC.  
INFORMATION THAT EFFECTS THE TIMELY COMPLETION OF OUR DESIGNS OR RESULT IN CHANGES TO THE ORIGINAL SCOPE OF WORK WILL BE RECORDED AND PROCESSED AS A VARIATION TO THE ORIGINAL CONTRACT.  
SPRINKLERS & COVER PLATES MUST NOT BE PAINTED.  
SPRINKLER PIPE ROUTES HAVE BEEN CO-ORDINATED WITH THE INFORMATION PROVIDED PIPE ROUTES MAY VARY ON SITE.

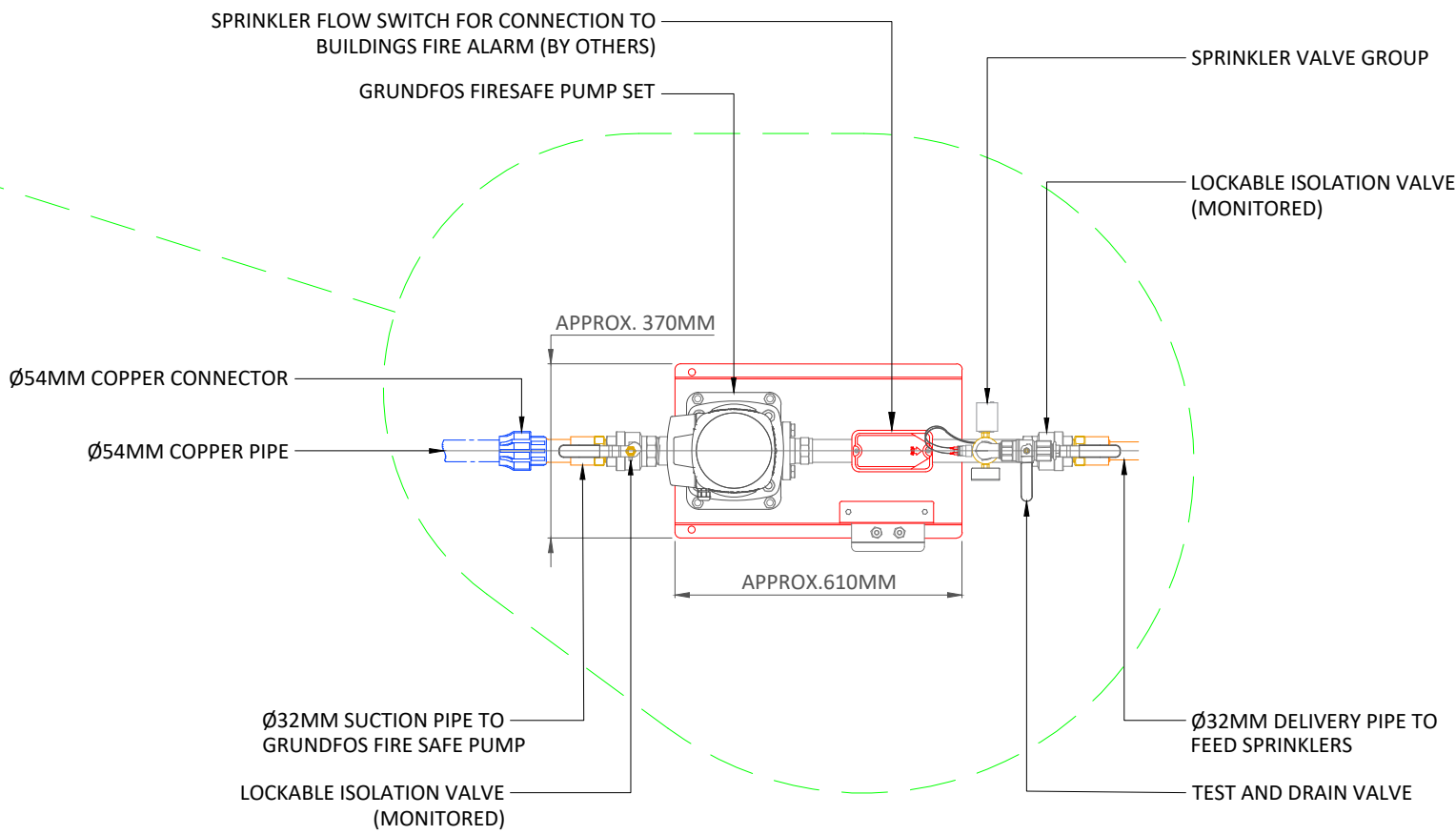
**EXTERNAL DRAWING REFERENCE:**  
ARCH: 2120 General Arrangement - Lower Ground Floor Layout as Proposed  
  
ELECTRICAL: 6631 - Link - Lighting Layout  
6431 - Annexe - Lighting Layout  
  
MECHANICAL: 5243-SP-MH-00-DR-E-400

DESIGN CALCULATIONS						
SPRINKLER LOCATION	AREA OF OPERATION	DEMAND	HEAD TYPE	DYN. PRESSURE (bar)	FLOW RATE (l/min)	M.H.D
1	-	2 HEAD	RAPIDROP RD208	-	-	-

APPROVAL CHART	
RESIDENTIAL CONCEALED PENDANT SPRINKLER RD208 K=70.6 (4.9)	
MAXIMUM AREA OF COVERAGE	MINIMUM WATER SUPPLY REQUIREMENTS
3.7m x 3.7m	49.2 l/min@0.48 bar
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5.5m x 5.5m	64.4 l/min@0.83 bar
6.1m x 6.1m	75.7 l/min@1.27 bar



EXPOSED OR CONCEALED SPRINKLER  
HEADS T.B.C.  
SPRINKLER HEADS MAY NEED TO BE  
REVIEWED UPON CONFIRMATION OF  
MECHANICAL EQUIPMENT TO ENSURE  
FULL COVERAGE AND COMPLIANCE.



PROJECT ID: 10057

DESIGN CRITERIA:	
SYSTEM DESIGN RULES	BS9251:2021
SOURCE & DURATION	TOWN MAIN SUPPLY - 30 MINUTES
COMPENSATORY FEATURES	N/A
ALARM	INTERFACED WITH FIRE ALARM
FIRE STOPPING MATERIAL	T.B.C

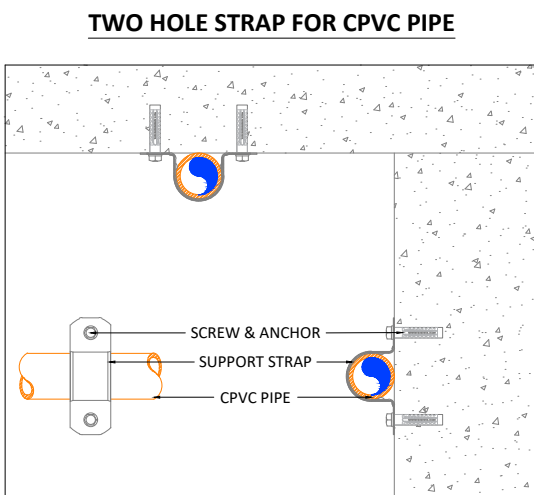
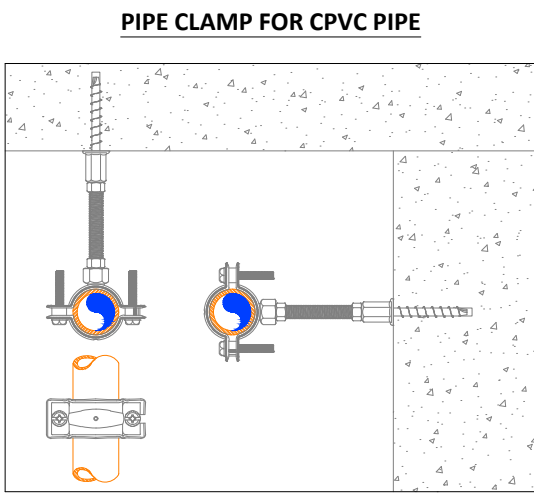
DESIGN DETAIL:	RESIDENTIAL AREAS:	NON RESIDENTIAL AREAS:
CATEGORY (BS9251:2021 TABLE 1)	2	-
TABLE (1,3,4)	1	-
HEAD STANDARD	UL1626	-
DENSITY mm/min (l/min/M2)	2.8	-
SPRINKLER PIPEWORK	CPVC	-
MINIMUM SPRINKLER PRESSURE	0.50 BAR	-
MINIMUM SPRINKLER SPACING	2.4M	-
MAXIMUM AREA/HEAD (M2)	25	-

SYSTEM ENHANCEMENTS	
WATER SUPPLY ARRANGEMENT	-
POWER SUPPLY CONFIG.	-
DURATION	-
DENSITY mm/min (l/min/M2)	-
F.B. INLET	-
REMOTE MONITORING	-

DEPARTURE FROM RULES / CLAUSES USED:	AHJ AGREEMENT
CORRIDOR PROTECTION	TO BE CONFIRMED / DEVIATION
-	-
-	-
-	-

HANGERS AND SUPPORTS SPACING (METERS)		
NOMINAL PIPE SIZE: (MILLIMETERS)	CPVC	MEDIUM WEIGHT STEEL
(20)	(1.7)	(2.4)
(25)	(1.8)	(2.4)
(32)	(2.0)	(2.0)
(40)	(2.1)	(2.1)
(50)	(2.4)	(2.4)
(65)	(2.7)	(2.7)
(80)	(3.0)	(3.0)

DRAWING LEGENDS & NOTES	
	SPRINKLER: CONCEALED / PENDANT / UPRIGHT / SIDEWALL / LOW FLOW
	SPRINKLER VALVE GROUP
	CPVC PIPE/RISER
	MEDIUM WEIGHT STEEL PIPE/RISER



A07	LATEST GA'S INCORPORATED	C.A.B	A.P.M	22/05/23
A06	BOOSTER PUMP INCORPORATED	C.A.B	A.P.M	28/09/22
A05	COMMENTS INCORPORATED	C.A.B	A.P.M	05/09/22
A04	COMMENTS INCORPORATED	C.A.B	A.P.M	17/08/22
A03	DRAWING BORDERS AMENDED	C.A.B	A.P.M	19/07/22
A02	UPDATED LAYOUTS INCORPORATED SPRINKLER HEADS & PIPE ROUTES AMENDED AS PER SITE VISIT SPRINKLER PROTECTION OMITTED FROM THE ANNEXE EXCEPT ROOMS ALG.20, ALG.22, ALG.23 & ALG.25 SPRINKLER POSITIONS AMENDED UTILISING ROOM SECTIONS	C.A.B	A.P.M	24/02/22

REV.	REVISION DETAIL	DRN.	CHK'D	DATE
DRAWING STATUS:		SCALE:	SIZE:	
FOR APPROVAL		1:50	A1	
DRAWING NUMBER:			REV:	
TFS-RS-10057-0LLG2			A07	