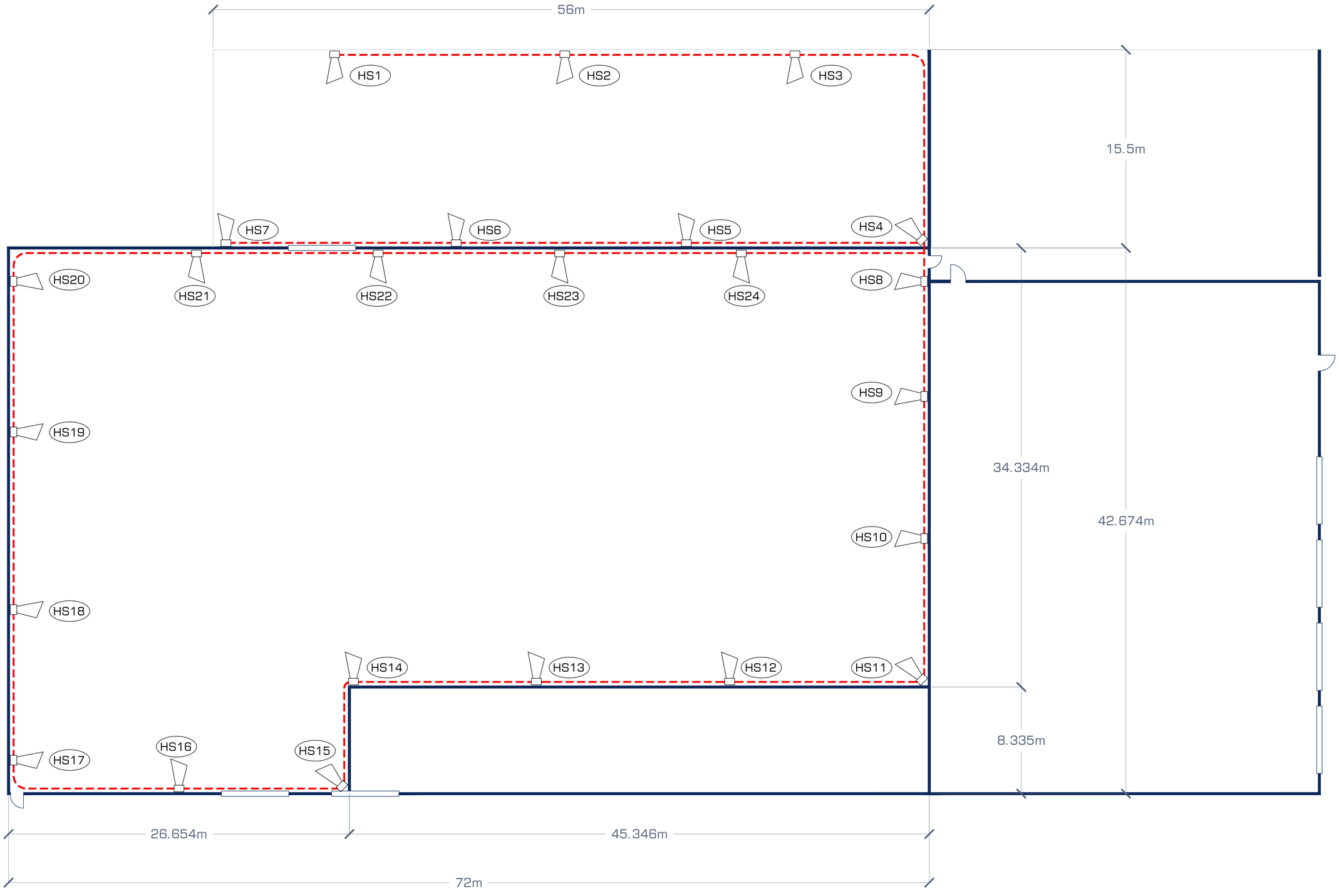


ROOF LEVEL OCCUPANT WARNING SYSTEM

SCALE 1:150

SYMBOL	DESCRIPTION
	HORN SPEAKER
	RECESSED CEILING MOUNTED SPEAKER
	SMOKE DETECTOR
	CONCEALED SMOKE DETECTOR WITH REMOTE INDICATOR
	THERMAL DETECTOR
	RISER
FIP WITH BOWS	FIP WITH BOWS
	WIRING OF DETECTOR 0.75mm TPS FLAT CABLE
	WIRING OF SPEAKER 1.50mm TPS TWISTED CABLE

CONTRACTOR:

REDMEN FIRE PROTECTION MANAGEMENT

PROJECT:

CONCRETE BATCHING PLANT
16 KERR ROAD INGLEBURN
NSW 2565

DRAWING TITLE:

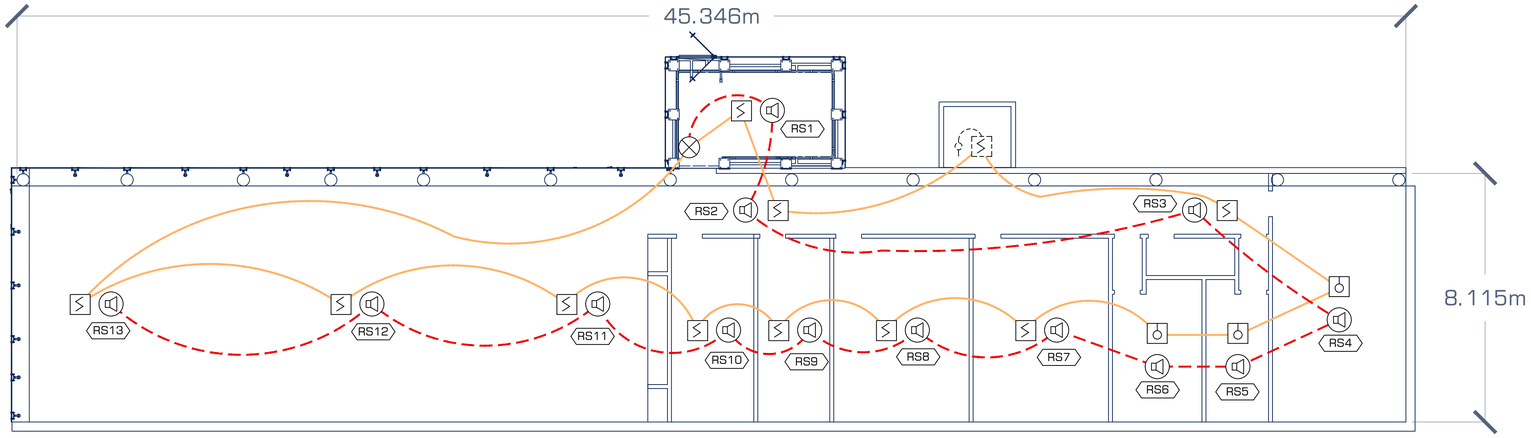
ROOF LEVEL OCCUPANT WARNING SYSTEM

PROPOSED LAYOUT

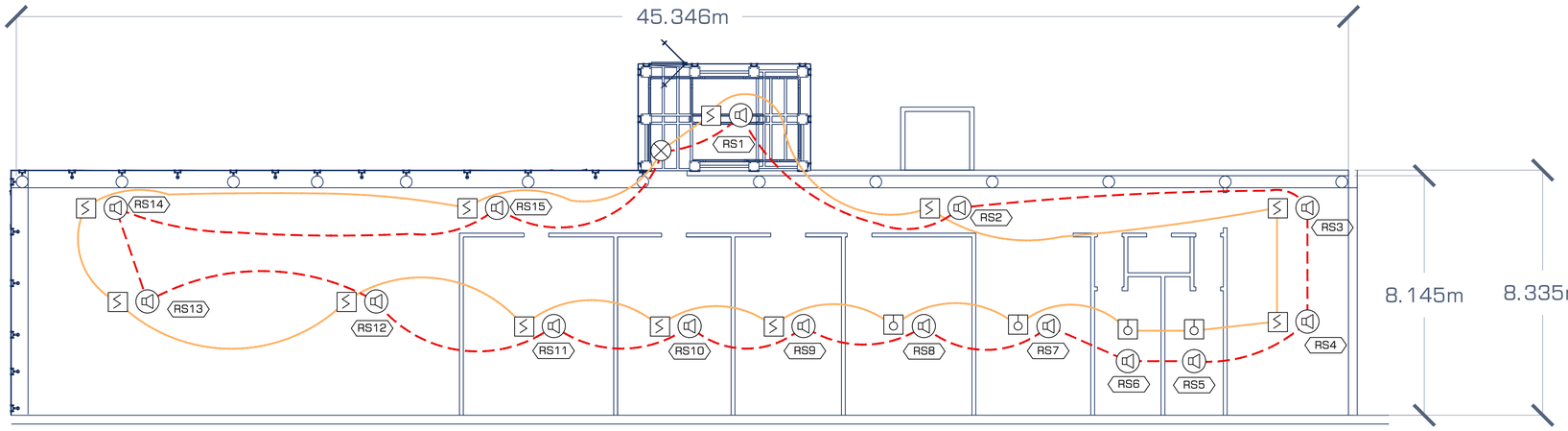
DRAWN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)	DATE
BGM	CGN	CGN	1:150	27.04.2018

PROJECT No.	DRAWING No.	REVISION
304171 / 306258	------	0

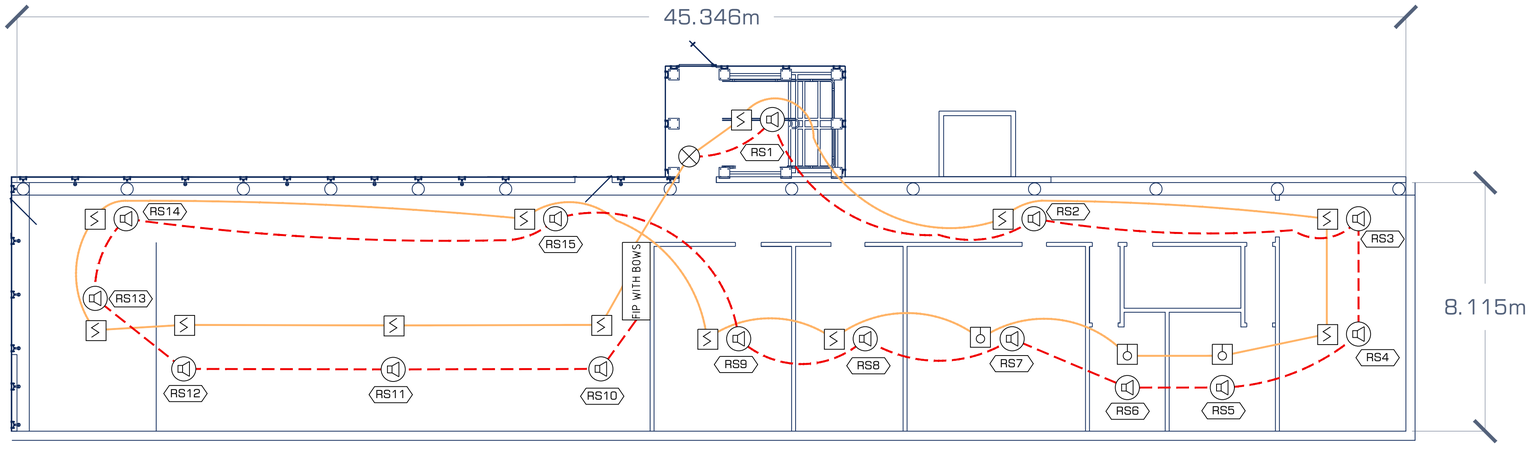
'A1' SIZE



SECOND FLOOR



FIRST FLOOR



GROUND FLOOR

SYMBOL	DESCRIPTION
	HORN SPEAKER
	RECESSED CEILING MOUNTED SPEAKER
	SMOKE DETECTOR
	CONCEALED SMOKE DETECTOR WITH REMOTE INDICATOR
	THERMAL DETECTOR
	RISER
FIP WITH BOWS	FIP WITH BOWS
	WIRING OF DETECTOR 0.75mm TPS FLAT CABLE
	WIRING OF SPEAKER 1.50mm TPS TWISTED CABLE

CONTRACTOR:

REDMEN FIRE PROTECTION MANAGEMENT

PROJECT:

CONCRETE BATCHING PLANT
16 KERR ROAD INGLEBURN
NSW 2565

DRAWING TITLE:

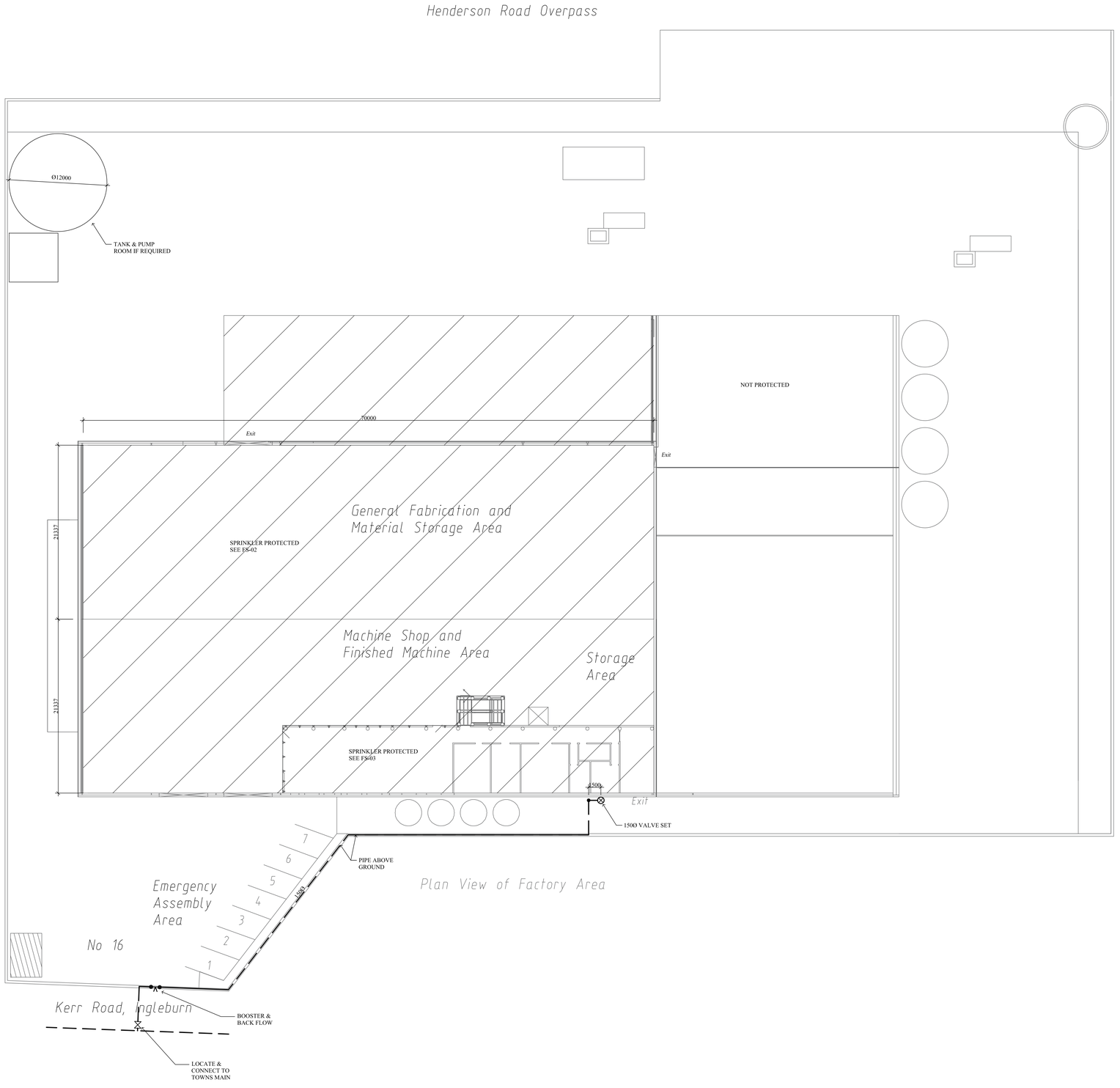
FIRE DETECTION SYSTEM WITH OCCUPANT WARNING SYSTEM

PROPOSED LAYOUT

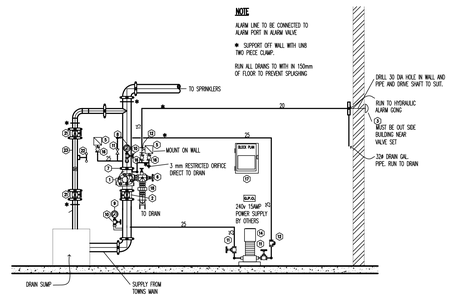
DRAWN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)	DATE
BGM	CGN	CGN	1:100	27.04.2018

PROJECT No.	DRAWING No.	REVISION
304171 / 306258	------	0

'A1 SIZE'



NO	DESCRIPTION
1	GROOVED ALARM VALVE 150
2	GROOVED MONITORED BUTTERFLEY FIRE VALVE 150
3	LOCAL WATER ALARM GONG
4	STRAINER
5	ALARM PRESSURE SWITCH
6	50x15mm WASTE & TEST VALVE
7	GROOVE COUPLING
8	SYSTEM PRESSURE GAUGE
9	SUPPLY MAIN PRESSURE GAUGE
10	GAUGE COCK
11	GATE VALVE
12	STRAINER
13	PIPE STAND SUPPORTS
14	ELECTRIC JACKING PUMP 5L/S AT 450 KPA
15	JACKING PUMP START/STOP PRESSURE SWITCH
16	LOCK OPEN ALARM BALL VALVE
17	SPRINKLER SPARES CABINET & BLOCK PLAN
18	50mm UNION
19	DRAIN INSPECTION TEE & PLUG
20	
21	80 GROOVED BUTTER FLY VALVE
22	ANNUBAR TEST ELEMENT [NOT SUPPLIED]
23	FLOW TEST PIPE
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	



CONTROL VALVE ELEVATION

SCHEMATIC

SCOPE OF WORK
SPRINKLER SYSTEM TO ROOF AND AWNING
HIGH HAZARD 7.5mm OVER 260 SQ M
SPRINKLER TO OFFICE LIGHT HAZARD
ALLOW TO CONNECT TO TOWNS MAIN PAY
ALL FEES AND RUN 150 DIA PIPE TO VALVE SET
ALLOW TO PROVIDE AN OCCUPANT WARNING SYSTEM
TO FACTORY AND TO THE OFFICES
DESIGN TO AS2118.1 1999

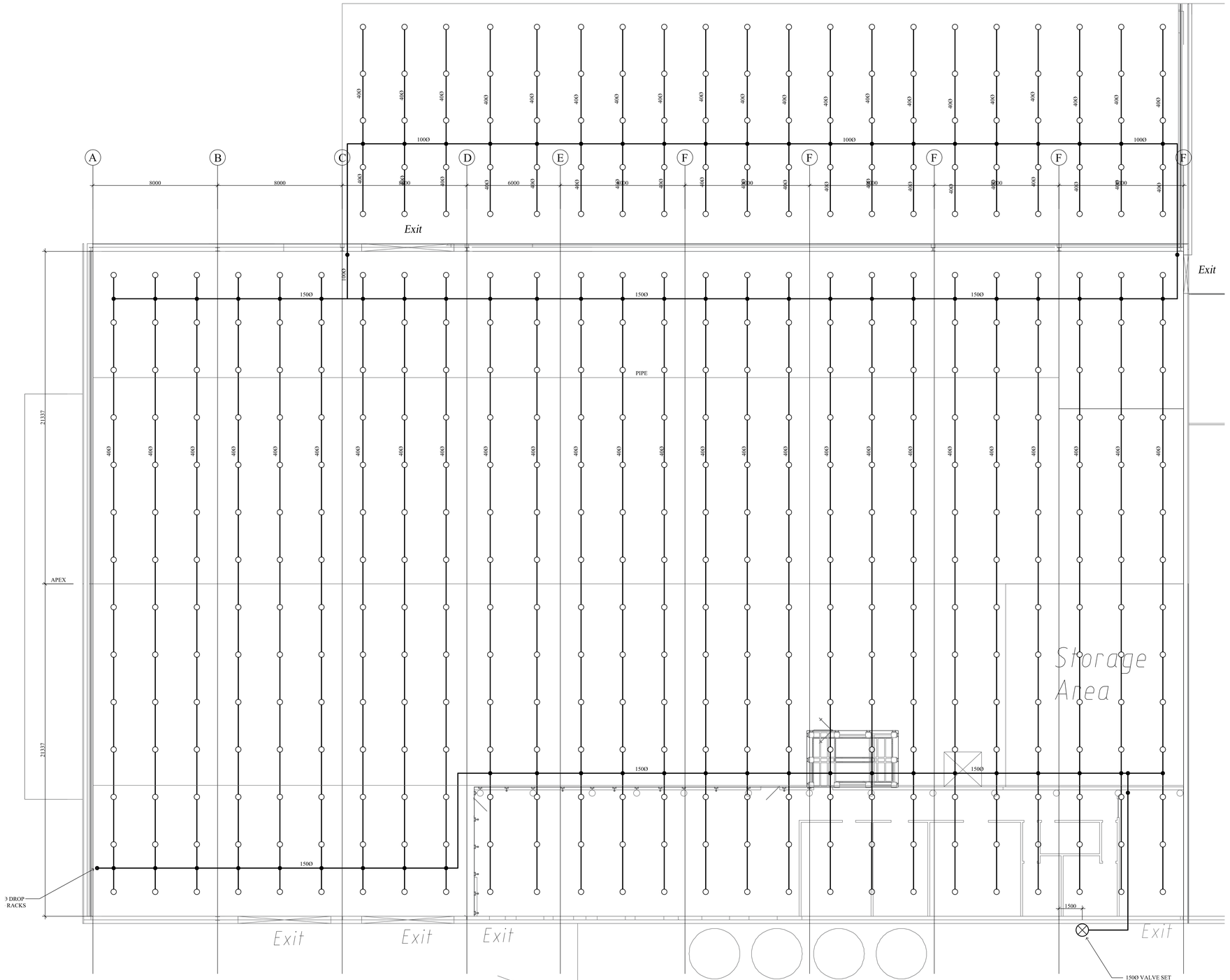
AMENDMENTS

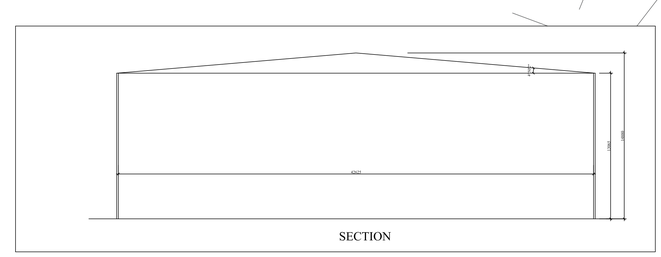
A	ISSUED FOR REVIEW	20/04/18

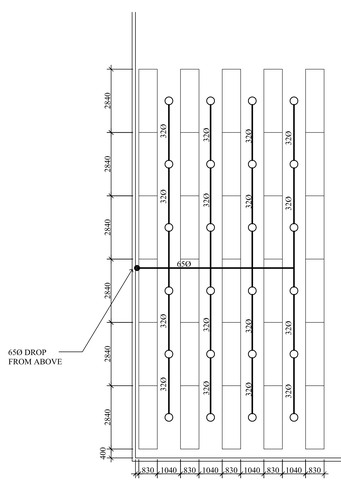
REDMEN FIRE PROTECTION MANAGEMENT
LABROBIN PTY LTD T/as
REDMEN FIRE PROTECTION
ABN 72 079 715 067
PHONE: 1300 725 594
Email: info@redmen.com.au

16 KERR ROAD
INGLEBURN

TITLE	SITE PLAN SPRINKLER SYSTEM	
DRAWN	PFC	
DATE	20/03/18	SCALE 1:200@A0
JOB No	FS-01	ISSUE A







AMENDMENTS

A	ISSUED FOR REVIEW	20/04/18

LABROBIN PTY LTD T/as
REDMEN FIRE PROTECTION
ABN 72 079 715 067
PHONE: 1300 725 594
Email: info@redmen.com.au

KERR ROAD
INGLEBURN

TITLE ROOF LEVEL PROTECTION AND RACKS SPRINKLER PROTECTION

DRAWN	PFC		
DATE	20/03/18	SCALE	1:100@A0
JOB No	FS-02	ISSUE	A

Statement of Available Pressure and Flow

Sydney WATER

James Donegan
59 Kirby St
Rydalmere, 2112

Attention: James Donegan Date: 02/01/2018

Pressure & Flow Application Number: 347971
Your Pressure Inquiry Dated: 2017-11-09
Property Address: 16 Kerr Road, Ingleburn 2565

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

ASSUMED CONNECTION DETAILS

Street Name: Kerr Road	Side of Street: East
Distance & Direction from Nearest Cross Street	345 metres North-East from Aero Road
Approximate Ground Level (AHD):	26 metres
Nominal Size of Water Main (DN):	150 mm

EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT

Normal Supply Conditions	
Maximum Pressure	86 metre head
Minimum Pressure	74 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow l/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	74
Fire Hydrant / Sprinkler Installations (Pressure expected to be maintained for 95% of the time)	5 10 15 20 26 30 40 50	74 73 72 71 69 68 63 58
Fire Installations based on peak demand (Pressure expected to be maintained with flows combined with peak demand in the water main) Maximum Permissible Flow	5 10 15 20 26 30 40 50 67	74 73 72 71 69 67 63 57 45

(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email :

swtapin@sydneywater.com.au

General Notes

This report is provided on the understanding that (i) the applicant has fully and correctly supplied the information necessary to produce and deliver the report and (ii) the following information is to be read and understood in conjunction with the results provided.

1. Under its Act and Operating Licence, Sydney Water is not required to design the water supply specifically for fire fighting. The applicant is therefore required to ensure that the actual performance of a fire fighting system, drawing water from the supply, satisfies the fire fighting requirements.

2. Due to short-term unavoidable operational incidents, such as main breaks, the regular supply and pressure may not be available all of the time.

3. To improve supply and/or water quality in the water supply system, limited areas are occasionally removed from the primary water supply zone and put onto another zone for short periods or even indefinitely. This could affect the supply pressures and flows given in this letter. This ongoing possibility of supply zone changes etc, means that the validity of this report is limited to one (1) year from the date of issue. It is the property owner's responsibility to periodically reassess the capability of the hydraulic systems of the building to determine whether they continue to meet their original design requirements.

4. Sydney Water will provide a pressure report to applicants regardless of whether there is or will be an approved connection. Apparent suitable pressures are not in any way an indication that a connection would be approved without developer funded improvements to the water supply system. These improvements are implemented under the Sydney Water 'Urban Development Process'.

5. Pumps that are to be directly connected to the water supply require approval of both the pump and the connection. Applications are to be lodged online via Sydney Water Tap in™ system -
Sydney Water Website – www.sydneywater.com.au/tapin/index.htm. Where possible, on-site recycling tanks are recommended for pump testing to reduce water waste and allow higher pump test rates.

6. Periodic testing of boosted fire fighting installations is a requirement of the Australian Standards. To avoid the risk of a possible 'breach' of the Operating Licence, flows generated during testing of fire fighting installations are to be limited so that the pressure in Sydney Water's System is not reduced below 15 metres. Pumps that can cause a breach of the Operating Licence anywhere in the supply zone during testing will not be approved. This requirement should be carefully considered for installed pumps that can be tested to 150% of rated flow.

Notes on Models

1. Calibrated computer models are used to simulate maximum demand conditions experienced in each supply zone. Results have not been determined by customised field measurement and testing at the particular location of the application.

2. Regular updates of the models are conducted to account for issues such a urban consolidation, demand management or zone change.

3. Demand factors are selected to suit the type of fire-fighting installation. Factor 1 indicates pressures due to system demands as required under Australian Standards for fire hydrant installations. Factor 2 indicates pressures due to peak system demands.

4. When fire-fighting flows are included in the report, they are added to the applicable demand factor at the nominated location during a customised model run for a single fire. If adjacent properties become involved with a coincident fire, the pressures quoted may be substantially reduced.

5. Modelling of the requested fire fighting flows may indicate that local system capacity is exceeded and that negative pressures may occur in the supply system. Due to the risk of water contamination and the endangering of public health, Sydney Water reserves the right to refuse or limit the amount of flow requested in the report and, as a consequence, limit the size of connection and/or pump.

6. The pressures indicated by the modelling, at the specified location, are provided without consideration of pressure losses due to the connection method to Sydney Water's mains.