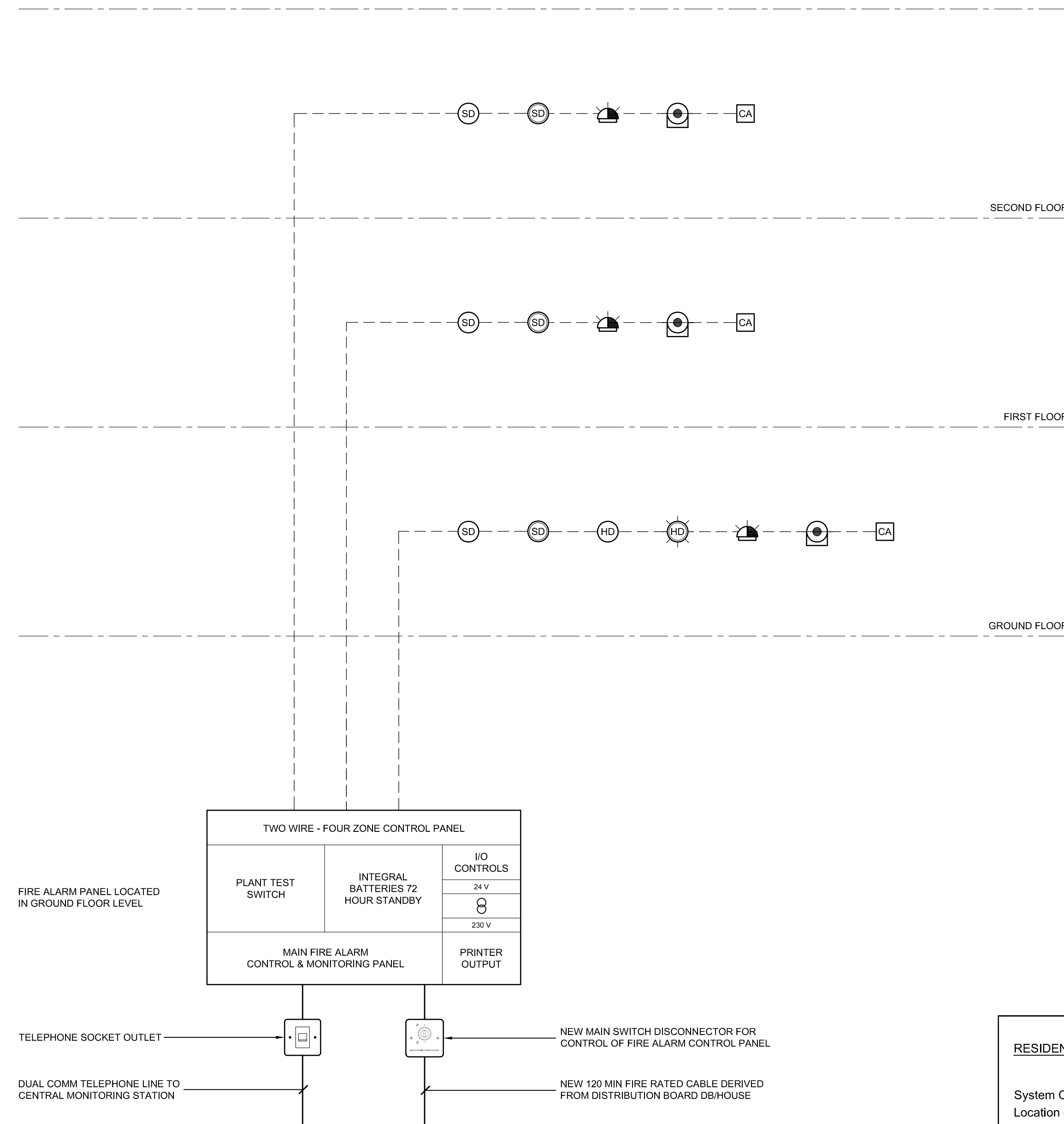


In addition to the hazards/risks normally associated with the types of work detailed on this drawing and noted in the designer risk assessments and health and safety plan, note the following:

- It is assumed that all works on this drawing will be carried out by a competent contractor working, where appropriate, to an approved method statement.
- Where applicable, all significant residual risks will be highlighted below.

**Notes:**

- DRAWING TO BE READ IN CONJUNCTION WITH ELECTRICAL SERVICES SPECIFICATION DOCUMENT.
- ALL ELECTRICAL TO BE MOUNTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING REGULATIONS APPROVED DOCUMENT PART M.
- THE DESIGN OF THE FIRE ALARM SYSTEM IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPROVED INSPECTOR.



**LEGEND**

- SMOKE DETECTOR
- COMBINED SMOKE DETECTOR + ELECTRONIC SOUNDER
- COMBINED SMOKE DETECTOR + ELECTRONIC SOUNDER + XENON BEACON
- HEAT DETECTOR
- COMBINED HEAT DETECTOR + ELECTRONIC SOUNDER + XENON BEACON
- MANUAL CALL POINT
- COMBINED ELECTRONIC SOUNDER + XENON BEACON
- END OF LINE CAPACITOR

**CAUSE + EFFECT NOTES**

- ALARM ACKNOWLEDGEMENT INSTIGATED VIA ACTIVATION OF ELECTRONIC SOUNDER TO MAIN KITCHEN ONLY.
- ACTIVATION OF ANY MANUAL CALL POINT WILL INSTIGATE A FULL ALARM CONDITION AND BY-PASS THE ALARM ACKNOWLEDGEMENT SYSTEM.
- THE ALARM ACKNOWLEDGEMENT PERIOD OF THE MAIN HOUSE FIRE ALARM CONTROL PANEL WILL CONSIST OF A 60-SECOND PERIOD AND WILL INHIBIT ACTIVATION OF THE ELECTRONIC SOUNDERS AND XENON BEACONS TO THE MAIN HOUSE.
- DURING THE ALARM ACKNOWLEDGEMENT PERIOD THE BUILDING USERS CAN ACKNOWLEDGE THE ALARM CONDITION BY PRESSING THE SILENCE BUTTON AT THE FIRE ALARM CONTROL PANEL. ACKNOWLEDGING THE ALARM CONDITION WILL SILENCE THE MAIN KITCHEN ELECTRONIC SOUNDER AND ACTIVATE THE INVESTIGATION PERIOD.
- A EVACUATION CONDITION WILL ALSO BE INSTIGATED IF THE ALARM CONDITION IS NOT ACKNOWLEDGED WITHIN THE 'ALARM ACKNOWLEDGMENT PERIOD'.
- THE INVESTIGATION PERIOD WILL ACTIVATE FOR A VARIABLE PERIOD BETWEEN 0 TO 180 SECONDS.
- AT THE EXPIRY OF THE INVESTIGATION PERIOD, IF THE FIRE CONDITION PERSISTS, THE FIRE ALARM SYSTEM WILL INSTIGATE A FULL EVACUATION CONDITION.

RESIDENTIAL PROPERTY - ONE OF MORE FLOORS GREATER THAN 200m²		SYSTEM EFFECT											
		System Healthy - Indication	System Fault - Indication	System Alarm - Indication	Electronic Sounder / Xenon Beacon Activated - Main Kitchen	Investigation Period Activated - Main House	Electronic Sounders - Alarm Condition	Xenon Beacons - Activated	Electronic Alarm Sounders - Silenced	Xenon Beacons - Disabled			
SYSTEM CAUSE	System Healthy	■				■							
	System Fault		■										
	Detector Device Activation			■	■								
	Manual Call Point Activation			■			■	■					
	Main Building - Alarm Acknowledgement Switch Activated			■	■	■	■	■					
	Main Building - Alarm Acknowledgement Switch Not Activated			■			■	■					
	Main Building - Alarm Acknowledgement Switch Activated - Time Period Expires			■			■	■					
	Main Building - Investigation Time Period Canceled - Evacuation Button on Control Panel			■			■	■					
	Main Building - Investigation Time Period Expires			■			■	■					
	Silence Alarm								■				
System Reset								■	■				

**FIRE ALARM SYSTEM CAUSE & EFFECT MATRIX**

P 07.04.21 PRELIMINARY ISSUE JAH  
Rev: Date: Amendments: Drawn:

**PELIMINARY**



Unit 15, Old Park Farm, Main Road,  
Ford End, Chelmsford, Essex, CM3 1LN  
Telephone: 01245 - 237336  
Email: info@brontideconsulting.com  
Web: www.brontideconsulting.com



Project:  
**SHELLEY HALL  
SHELLEY, IPSWICH  
SUFFOLK, IP7 7X**

Title:  
**FIRE ALARM SYSTEM  
DISTRIBUTION SCHEMATIC  
ARRANGEMENT**

Drawn: JAH Engineer: JAH Approved: TH Date: MAY 2021  
Scale: 1:1 @ A1 Reference File: N/A

**ELECTRICAL SERVICES**

Drawing Number: 3421 - E - 5301 Revision: P