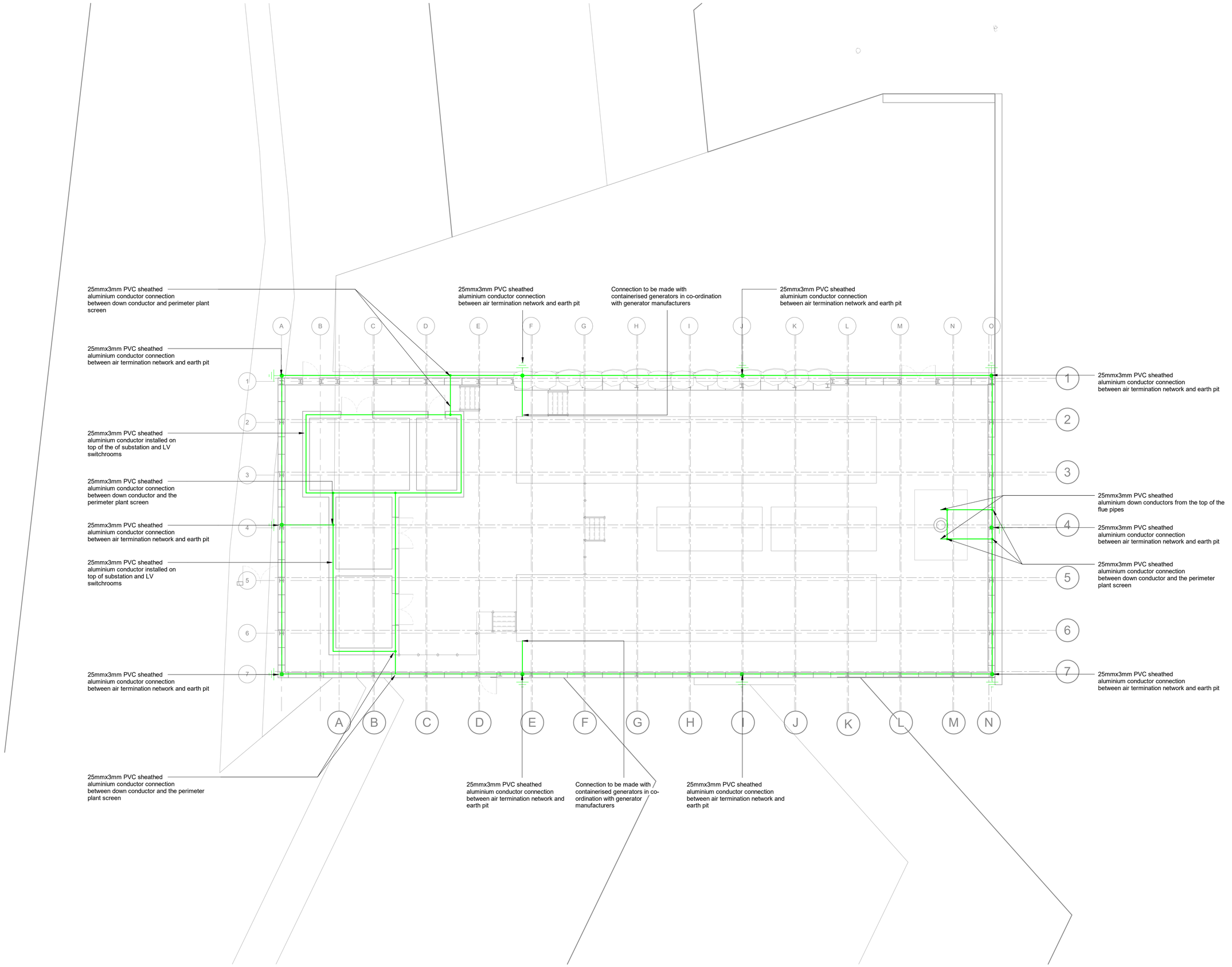


Notes

1. This drawing should be read in conjunction with other design documentation and all other supporting technical information.
2. This drawing is based on the following collaborative model: 23133-SRA-NM172-ZZ-00-DR-A-02002 rev P02.
3. All dimensions in mm unless otherwise stated.
4. Do not scale from this drawing.
5. This drawing forms part of the BSRIA Work Stage 4A Techincal Design Part 1 package.
6. This drawing is to be read in conjunction with Major Plant Item Procurement Specification 23135-ARP-DZ-XX-SP-E-00001 and MEP Particular Specification 23135-ARP-DZ-XX-SP-E-00002.
7. A minimum of Level III lightning protection system shall be installed as per BS EN 62305. Contractor shall confirm the lightning protection requirements with the lightning protection specialist before the installation.
8. All extraneous metal work shall be bonded to the lightning protection system.
9. The lightning protection system shall be bonded to the main earth bar via a test link.
10. Coordinated surge protection devices shall be installed to all the incoming power lines.
11. All external plant within the compound shall be bonded to the lightning protection system.
12. All earth pits shall be co-ordinated with the other services and external pavings.
13. Contractor, in co-ordination with the flue specialist, to provide air termination at the top of flue pipes.
14. Lightning protection bonds shall also be made to the following (not shown):
 - Fuel tanks
 - Fuel pipework
15. Earth pits shall comprise driven copper rods complete with test link, within recessed inspection housing with removal lid.
16. A combined substation adn generator earthing system shall be provided (not shown). Refer to the MEP Particular Specification for details.
17. Specific detail for perimter plant screen air termination network to be developed by the Contractor at the next stage. Where continuous metallic elements are provided, it may be possible simply to bond to these.

Legend

- Earthing Cable
- Earth Pit
- Connection between Lightning Protection element

REV.	DESCRIPTION	DATE	DRW.	CHK.
P01	RIBA Stage 4	22/11/24	MG	TW

NHS Manchester University NHS Foundation Trust

APPOINTED PARTY LOGO/INFORMATION

ARUP
6th Floor, 3 Piccadilly Place
Manchester M1 3BN
Tel+44(0161) 228 2331
www.arup.com

PROJECT
North Manchester General Hospital
WP06 - Relocation of Substation 10

TITLE
Electrical Services
Substation 14
Lightning Protection

STATUS	PURPOSE OF ISSUE
S2	Suitable For Information

DRAWN BY	CHECKED BY	DATE
MG	TW	22/11/24

SCALE (@A1)	PROJECT NUMBER
1 : 100	276353

FILE DRAWING NUMBER	REV.
23135-ARP-ZZ-XX-DR-E-61001	P01

22/11/2024 16:00:09