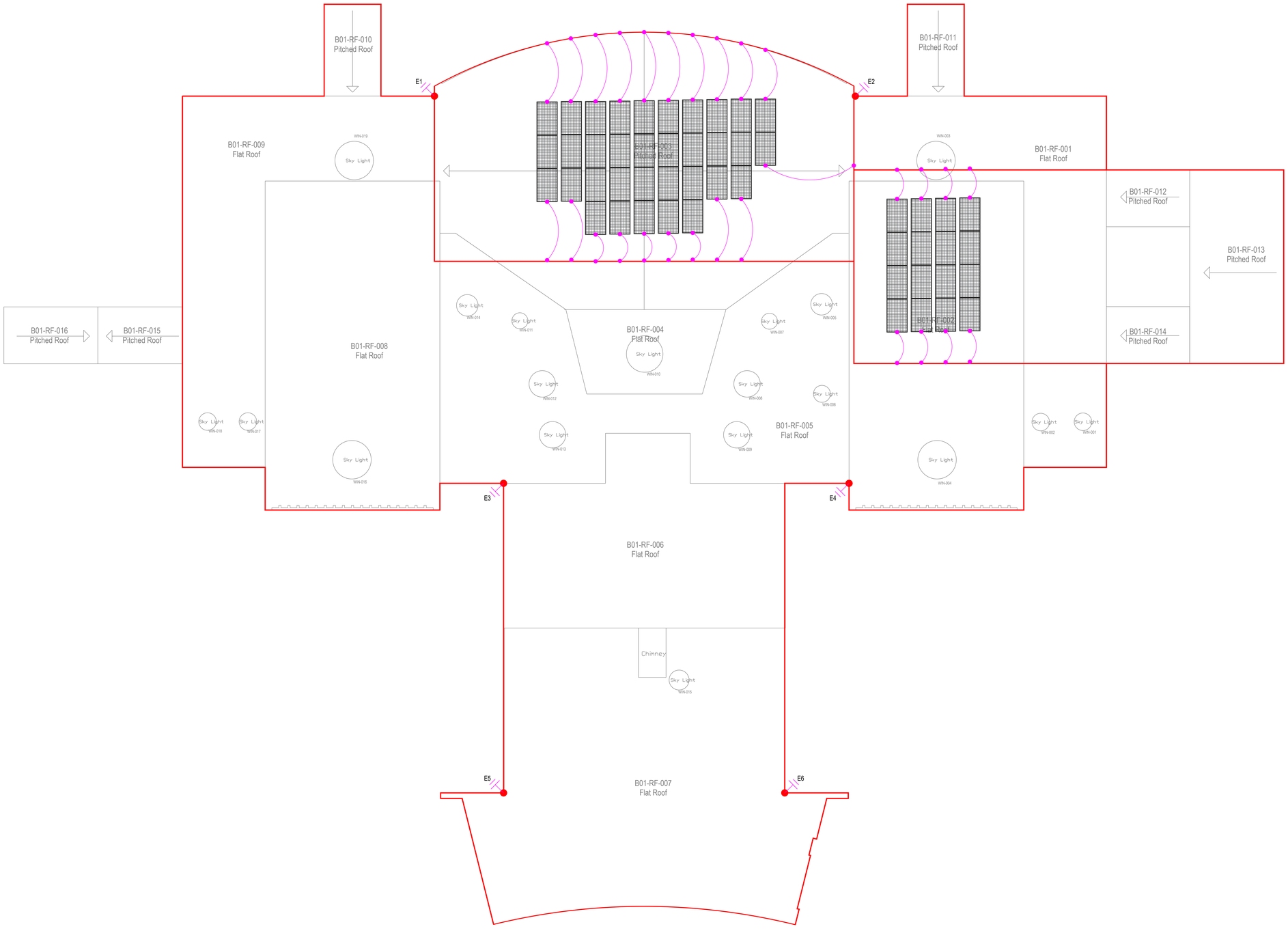
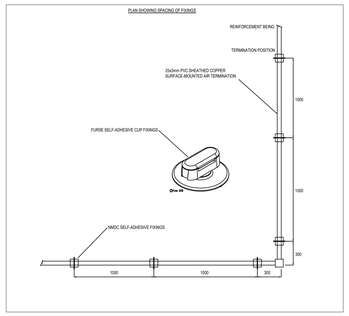
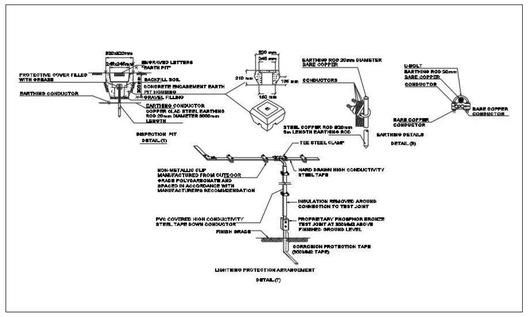




A 6900 DETAIL A

STANDARD CONNECTION TO BUILDING NTS



B 6900 DETAIL B

TYPICAL DETAIL OF ROOF AIR TERMINATION NETWORK CONNECTIONS AND DOWNTAPES TO GROUND LEVEL NTS

LIGHTNING PROTECTION SYMBOLS	
SYMBOL	DESCRIPTION
●	'B' BONDED CONNECTION TO METAL CAPPING
	LOW LEVEL 'B' BONDED CONNECTION TO STEEL C/W EARTH ELECTRODE, HOUSED IN A INSPECTION CHAMBER
	25 x 3 ALUMINUM CONDUCTOR TAPE
	PHOTOVOLTAIC ARRAY
	METALWORK BOND TO CONDUCTOR

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This drawing shall be read in conjunction with the CWC Mechanical and / or Electrical Specification(s).
DO NOT SCALE FROM THIS DRAWING

DESIGNERS RISK ASSESSMENT

REFER TO APPENDIX 1 OF M&E SPECIFICATION FOR DESIGNERS RISK ASSESSMENT SCHEDULE

DRAWING BACKGROUND(S):

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
3. THIS DRAWING IS NOT TO BE SCALED.
4. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.

NOTES:

1. THIS PRELIMINARY STRUCTURAL LIGHTNING PROTECTION SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF BS EN 62305:2011/12-PROTECTION LEVEL 2. PLEASE NOTE: THE NOMINATED LIGHTNING PROTECTION SPECIALIST MUST CARRY THE DESIGN RESPONSIBILITY AT £10 MILLION INDEMNITY.
2. THE NOMINATED LIGHTNING PROTECTION SPECIALIST MUST BE A FULL MEMBER OF ATLAS (THE ASSOCIATION OF TECHNICAL LIGHTNING & ACCESS SPECIALISTS).
3. All LIGHTNING PROTECTION CONNECTIONS TO THE BUILDING AND EARTH PITS. SHALL BE MADE BY THE LIGHTNING PROTECTION SPECIALIST ONLY, IN ACCORDANCE WITH BS EN 62305. UNDER NO CIRCUMSTANCES SHOULD THESE CONNECTIONS BE MADE BY OTHERS.
4. ROOF AIR TERMINATION NETWORK TO COMPRISE OF A DEDICATED 10X10M CLOSED MESH FORMATION FORMED BY 25x3mm PVC SHEATHED ALUMINIUM CONDUCTOR FIXED @1000mm CENTRES VIA SELF-ADHESIVE CLIPS.
5. DOWN CONDUCTOR POSITIONS TO COMPRISE OF UTILISATION OF STEEL REINFORCEMENTS WITHIN THE CAST-IN SITU CONCRETE COLUMNS TO FORM A NATURAL DOWN CONDUCTION CURRENT PATH. TO SATISFY THE ELECTRICAL CONTINUITY REQUIREMENTS (<0.2Ω), THE REBAR MUST BE EITHER CROSS BONDED OR WELDED FROM BASEMENT LEVEL TO ROOF LEVEL BY OTHERS AT NO COST TO BSL. THE INTERFACE WILL BE VIA CAST-IN COLUMN EARTH PLATES AT LOW (WHERE REFERENCE EARTHS ARE PRESENT), INTERMEDIATE & HIGH LEVEL. THE FINAL POSITIONING OF WHICH MUST BE COMPLETED BY THE MAIN CONTRACTOR.
6. BALCONY HANDRAILS TO BE CROSS BONDED IN TO THE DOWN CONDUCTOR NETWORK AT EACH FLOOR LEVEL USING ALUMINIUM CONDUCTOR, CLAMPS AND BONDS- DETAIL C INSTALLED BEHIND CLADDING.
7. AN EQUIPOTENTIAL BOND SHALL BE INSTALLED BETWEEN THE MET AND NEAREST LIGHTNING CONDUCTOR / EARTH POSITION. (MIN CABLE SIZE-50mm² 6491B).
8. DUE TO THE BUILDING BEING A CONCRETE STRUCTURE ALL PROPOSED DOWNTAPE LOCATIONS SHALL BE RUN FROM THE ROOF AIR TERMINATION NETWORK DOWN THE BUILDING AND CONNECT DIRECTLY TO THE ASSOCIATED EARTH PIT.
9. PLEASE NOTE THAT A EARTHING SPECIALIST SHOULD BE APPOINTED TO CONFIRM THE EARTHING SCHEME ON THE PROJECT , THE DRAWING HAS BEEN PRODUCED TO GIVE A CONCEPT OF THE EARTHING REQUIREMENTS FOR THE PROJECT

Rev	Date	Description	Eng	Chk
AF1	17.02.26	AS FITTED ISSUE	TN	JS

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Client: ADF GROUP

Project: MCC BLACKELY CREMATORIUM AND CHAPEL

Drawing Title: PROPOSED LIGHTNING PROTECTION LAYOUT DRAWING

Status: AS-FITTED

Project No.	Drawn	Scale / Paper Size
3549	BW	1:75 @ A0

Drawing No.: 3549-CWC-XX-EX-DR-E-6900 Rev: AF1