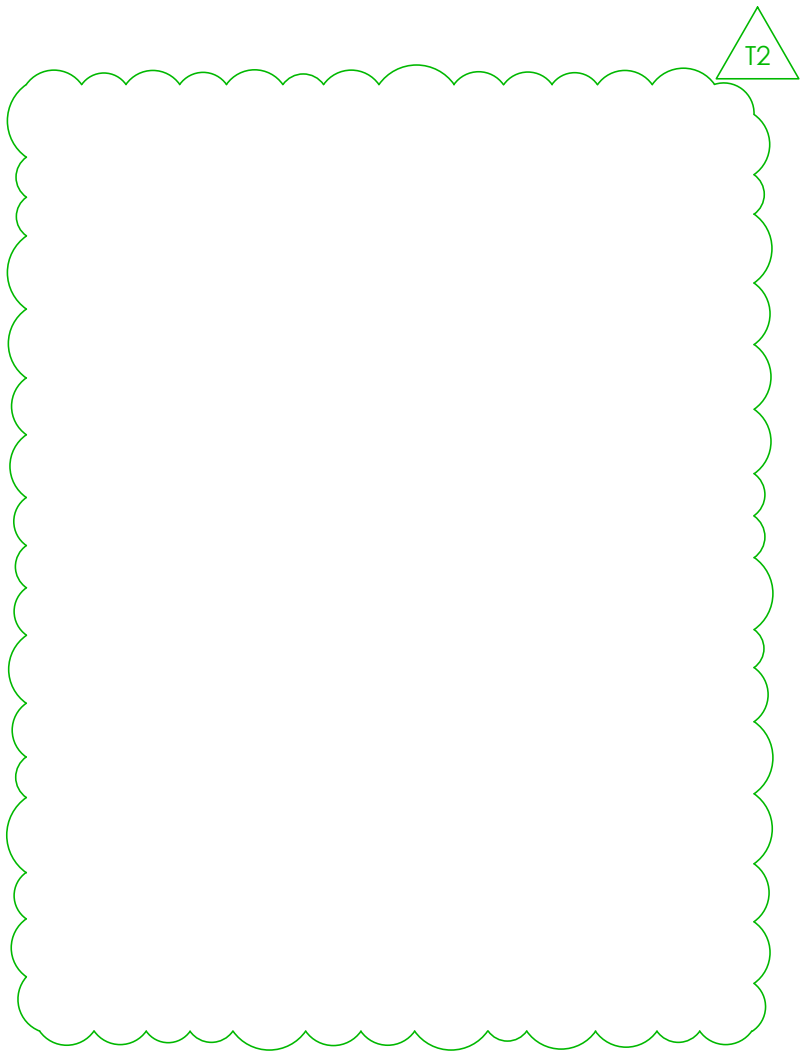
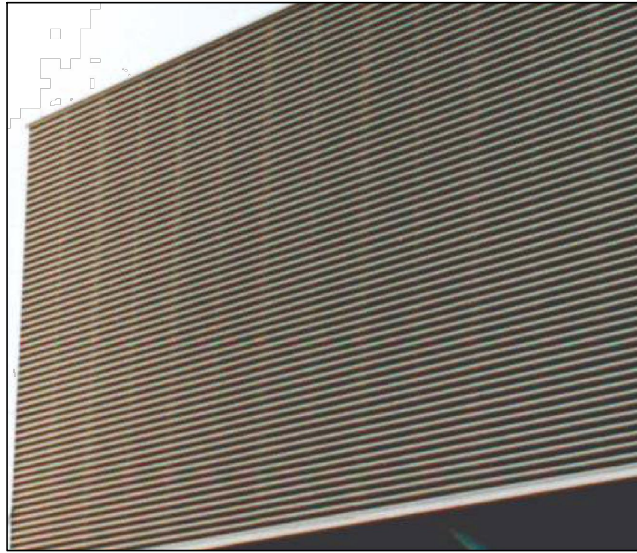
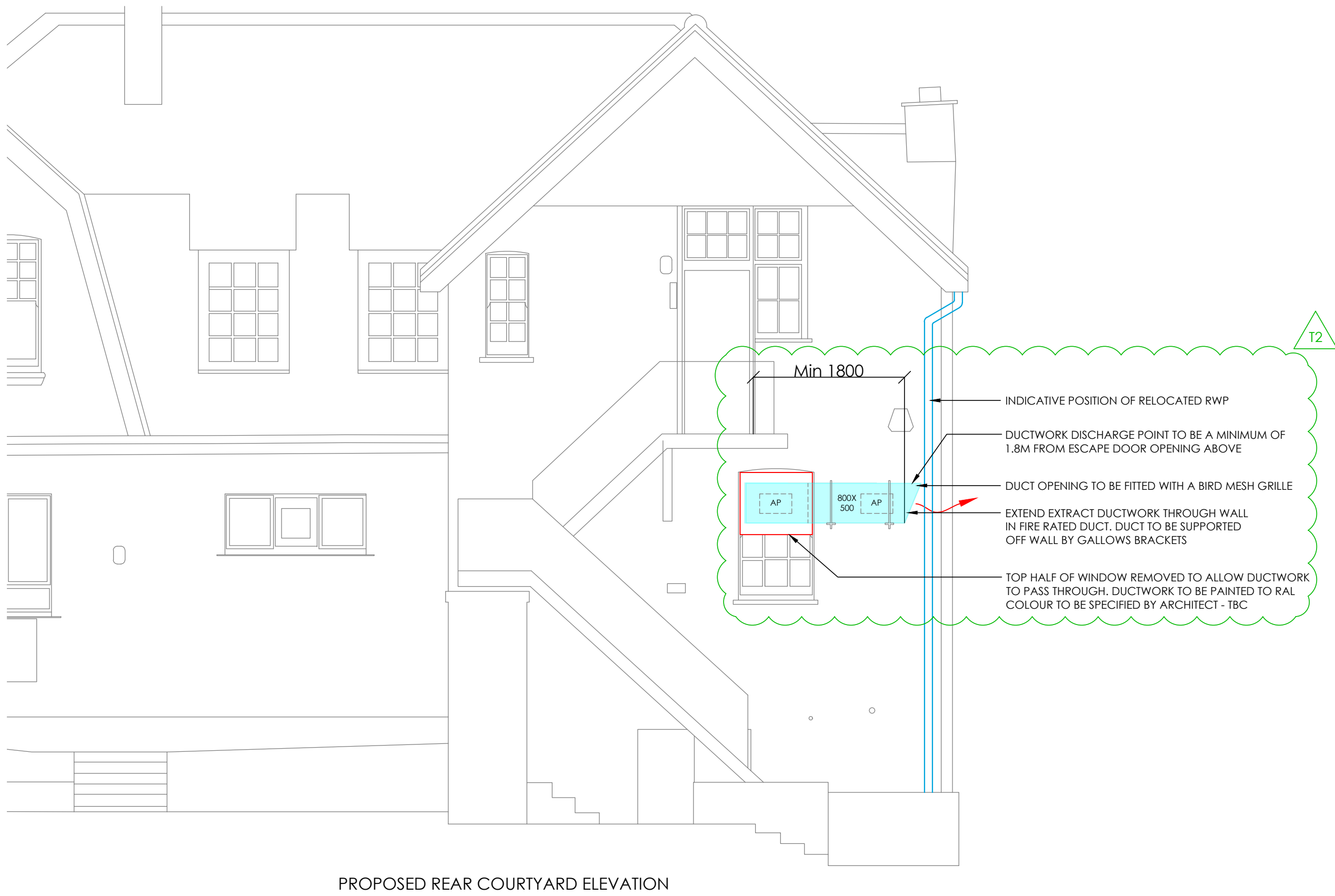
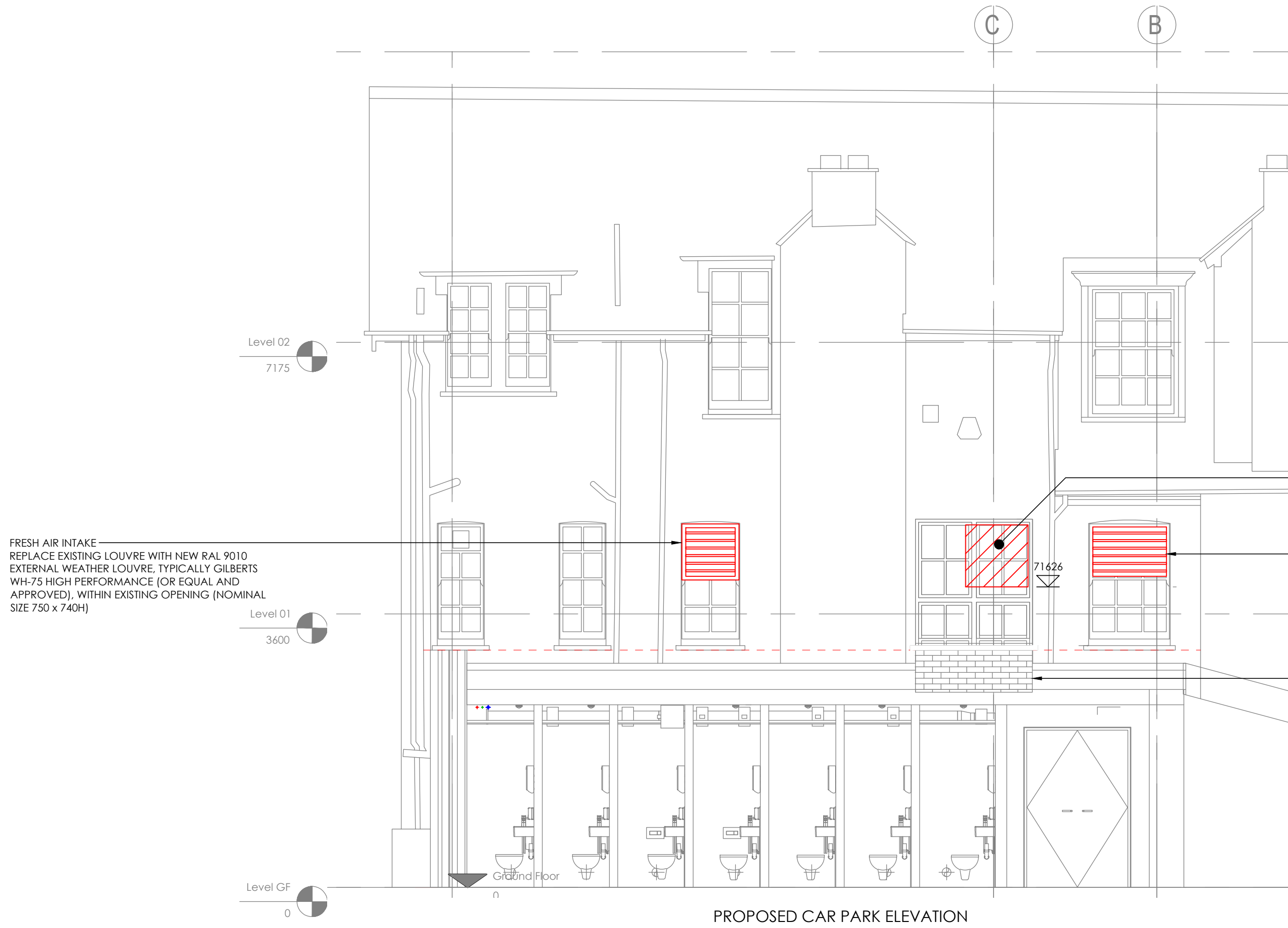




THIS DRAWING IS ONLY INTENDED TO PROVIDE INFORMATION ON THE REQUIRED CONCEPT AND/OR PERFORMANCE OF THE BUILDING SERVICES INSTALLATIONS.

NONE OF THE BUILDING SERVICES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED, SIZED OR FINALLY LOCATED.

XRef Name: XREF- NORTHWOOD				
Drawn CAD:BW				
Architect: RLB				
Dtg No: NWC-EWA-ZZ-ZZ-DR-A-0622_T1 Proposed Section against West Wing				
Incoming: 2021-01-15 RLB - DWG				
General Notes				
All dimensions must be checked on site. Do not scale from this drawing. This drawing is the Copyright of KB Wilde Consulting Ltd				
Revision	Date	By	App	
I1 - INTENDED VENTILATION WORKS TO CAR PARK ELEVATION	JAN '21	PB	IW	
T1 - TENDER ISSUE	FEB '21	PB	IW	
T3 - DUCTWORK DISCHARGE AMENDED & FIRE RATED DUCTWORK ADDED, SVP & RWP DIVERSIONS INDICATED	MAR '21	PB	IW	

- NOTES:
- DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER KB WILDE DRAWINGS. SPECIFICATIONS AND DOCUMENTATION
 - INSTALLATION TO BE COMPLIANT WITH ALL CURRENT STANDARDS, REGULATIONS, BUILDING REGULATIONS, CIBSE GUIDELINES AND APPLICABLE BRITISH STANDARDS
 - ALL EQUIPMENT TO BE FITTED IN LINE WITH MANUFACTURERS INSTALLATION REQUIREMENTS AND RECOMMENDATIONS. THE SUB-CONTRACTOR SHALL VISIT SITE TO REVIEW ALL ASPECTS OF THE PROPOSED WORKS IN ORDER TO PROVIDE AN ACCEPTABLE TENDER
 - THE CONTRACTOR & SUB-CONTRACTOR SHALL PROVIDE ALL FIXING METHODS IN ACCORDANCE WITH BUT NOT LIMITED TO THE RELEVANT BRITISH STANDARDS, TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER
 - THE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING FULL CO-ORDINATION WITH ALL OTHER TRADES, SERVICES, AND THE BUILDING FABRIC BOTH PRIOR TO AND DURING INSTALLATION. HE SHALL SIMILARLY BE DEEMED TO HAVE INCLUDED FOR MODIFICATIONS THAT MAY ARISE FROM SUCH CO-ORDINATION
 - THE INSTALLING SUB-CONTRACTOR/CONTRACTOR SHALL MAKE NOTE OF AND ENSURE FULL COMPLIANCE WITH ALL CURRENT HEALTH AND SAFETY REQUIREMENTS AT ALL TIMES
 - THE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING ALL OF HIS INSTALLED WORKS AND FOR KEEPING FORMAL RECORDS OF THE SAME FOR REGULAR INSPECTION BY THE ENGINEER. ALL COMPLETED WORKS SHALL BE OFFERED FOR INSPECTION PRIOR TO THEIR BEING COVERED UP OR OTHERWISE CONCEALED. NO INCOMPLETE WORKS SHALL BE COVERED OR CONCEALED
 - ALL SPECIFIED MANUFACTURERS NOTED SHALL BE DEEMED TO INCLUDE THE WORDS "OR EQUAL AND APPROVED". ALL EQUIPMENT SHALL BE SUPPLIED COMPLETE IN ALL

- RESPECTS WITH ALL NECESSARY ACCESSORIES, VALVES, WIRES ETC IN ORDER THAT THEY MAY BE SET TO WORK IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND ALL APPROPRIATE STANDARDS AND REGULATIONS
- REFERENCE IS TO BE MADE TO LATEST REVISIONS OF ARCHITECTS DRAWINGS AND DETAILS. ANY DISCREPANCIES BETWEEN ARCHITECTS DRAWINGS AND KBWC SERVICES DRAWINGS ARE TO BE REPORTED
- ALL SERVICES PENETRATING THROUGH AN EXTERNAL OR FIRE COMPARTMENT WALL / FLOOR MUST BE FIRE STOPPED
- ANY EXTERNAL BUILDING PENETRATIONS TO BE ADEQUATELY WEATHERPROOFED AND SEALED TO PREVENT INGRESS FROM BOTH WATER AND PESTS
- ACCESS TO BE PROVIDED FOR MAINTENANCE, IN LINE WITH MANUFACTURERS GUIDANCE
- COMPLETE INSTALLATION TO BE IN ACCORDANCE WITH ALL RELEVANT GUIDANCE AS SET OUT IN THE BUILDING ENGINEERING SERVICES ASSOCIATION (BESA) DW/172 SPECIFICATION FOR KITCHEN VENTILATION SYSTEMS
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE LATEST RLB / KBWC SCOPE OF WORKS SPECIFICATION
- THIS DRAWING IS BASED UPON THE INDIGO CATERING EQUIPMENT PLAN: 2146 DRAFT AND THEIR ADVICE THAT THE NEW REQUIRED EXTRACT DUTY IS 3.26M3/S @ 400 PA
- THE CANOPY IS EXISTING AND ITS LOCATION WITHIN THE KITCHEN AS SURVEYED 2 FEBRUARY 2021 - 900MM X 3100MM X 500MM HIGH. THE SPACE ABOVE THE CANOPY SHALL BE ENGAGED WITH STAINLESS STEEL FASCIA PANELS ENCLOSING THE VOID BETWEEN THE TOP OF THE CANOPY AND THE CEILING SOFFIT
- THE KITCHEN EXTRACT SYSTEM SHALL BE DESIGNED, INSTALLED, TESTED AND COMMISSIONED IN ACCORDANCE WITH BESA DW 172 AND DW 144.

- THE KITCHEN EXTRACT DUCTWORK SHALL BE PROVIDED WITH SUITABLE CLEANING ACCESS AS PER BESA 19/19.
- THE ATTENUATION SHOWN AND DETAILED ON THIS DRAWING HAS BEEN PREPARED IN CONJUNCTION WITH THE HAHN TUCKER REPORT 28564 - RP-PHA-RWO DATED 12 FEBRUARY 2021.
- FOR GREASE & ODOUR CONTROL EQUIPMENT REFER TO PURIFIEDAIR (01708 755414 / DAN FRANKLYN)
- THE COLOUR RISK ASSESSMENT FOR THIS INSTALLATION WAS CALCULATED AS VERY HIGH AS FOLLOWS:
- DISPERSION @ LOW LEVEL
 - PROXIMITY OF RECEPTORS LESS THAN 20M FROM KITCHEN DISCHARGE
 - SIZE OF KITCHEN MORE THAN 100 COVERS
 - COOKING TYPE MOST PUBS
 - THE R102 ANSUL FIRE SUPPRESSION SYSTEM SHALL BE MODIFIED AND ALTERED TO SUIT THE NEW INDIGO COOKLINE LAYOUT BY OTHERS.
 - THE EXTRACT SYSTEM SHALL BE CONTROLLED BY A SIMPLE ON/OFF CONTROLLER
 - THE EXTRACT VENTILATION SYSTEM SHALL BE INTER-LINKED WITH A GAS SOLENOID VALVE (GSV) IN ACCORDANCE WITH BS 6173: 2001 EMPLOYING A GAS INTERLOCK PANEL WITH A LINK BETWEEN THE EXTRACT FAN AND THE GSV, TO PREVENT THE GSV FROM OPENING IF THERE IS NO AIR FLOW - BY TRENT
 - THE SCHOOL FIRE ALARM SYSTEM SHALL BE INTERFACED WITH THE GAS INTERLOCK PANEL TO SHUT DOWN THE VENTILATION ON ANY FIRE ACTIVATION AND WITH THE ANSUL PANEL. OPERATION OF THE ANSUL PANEL SHALL SHUT-DOWN ALL APPLIANCES - GAS AND ELECTRIC - WITHIN THE COOK-LINE
 - PROVIDE ANTI-VIBRATION MOUNTS TO ALL SERVICES TO ENSURE ISOLATION FROM STRUCTURE

26.0 ALL KITCHEN EXTRACT DUCTWORK SHALL BE FIRE RATED TO EN1366 PARTS 1 & 8 AND EN15871 TO PROVIDE A MINIMUM 2-H FIRE RATING, AS **FLAMESHIELD** THREDUCT OR EQUAL & APPROVED.

MITIGATION MEASURES

IN ORDER TO CONTROL PLANT NOISE EMISSIONS IN LINE WITH THE PROPOSED CRITERION, WE RECOMMEND INSTALLING AN ATTENUATOR TO THE KITCHEN EXTRACT FAN. THE ATTENUATOR MUST BE MELINEX AND CAPABLE OF ACHIEVING THE FOLLOWING INSERTION LOSSES:

MINIMUM INSERTION LOSS (dB) FOR ATTENUATORS AT OCTAVE BAND CENTRE FREQUENCY									
PLANT UNIT	63	125	250	500	1000	2000	4000	8000	
EXTRACT FAN	7	13	14	13	16	18	18	22	

THE ABOVE COULD TYPICALLY BE ACHIEVED USING A MELINEX LINED ATTENUATOR THAT IS 1200MM LONG WITH 30% FREE AREA ALTHOUGH THE MINIMUM INSERTION LOSSES ARE THE OVERRIDING DESIGN CONSIDERATION.

Client

RIDER LEVETT BUCKNELL

LEVEL 3, 110 BISHOPSGATE

LONDON

EC2N 4AY

Drawing Name

MECHANICAL SERVICES

CAR PARK ELEVATIONS AND

REAR COURTYARD

Project

NORTHWOOD COLLEGE

FOR GIRLS

Scale Bar 1:50

m 1 2 3 4 5

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Drawing Status	Date	Scale
TENDER	JAN '21	1:25@A1
Drawing No.	Revision	
20031.MS.E02	T2	