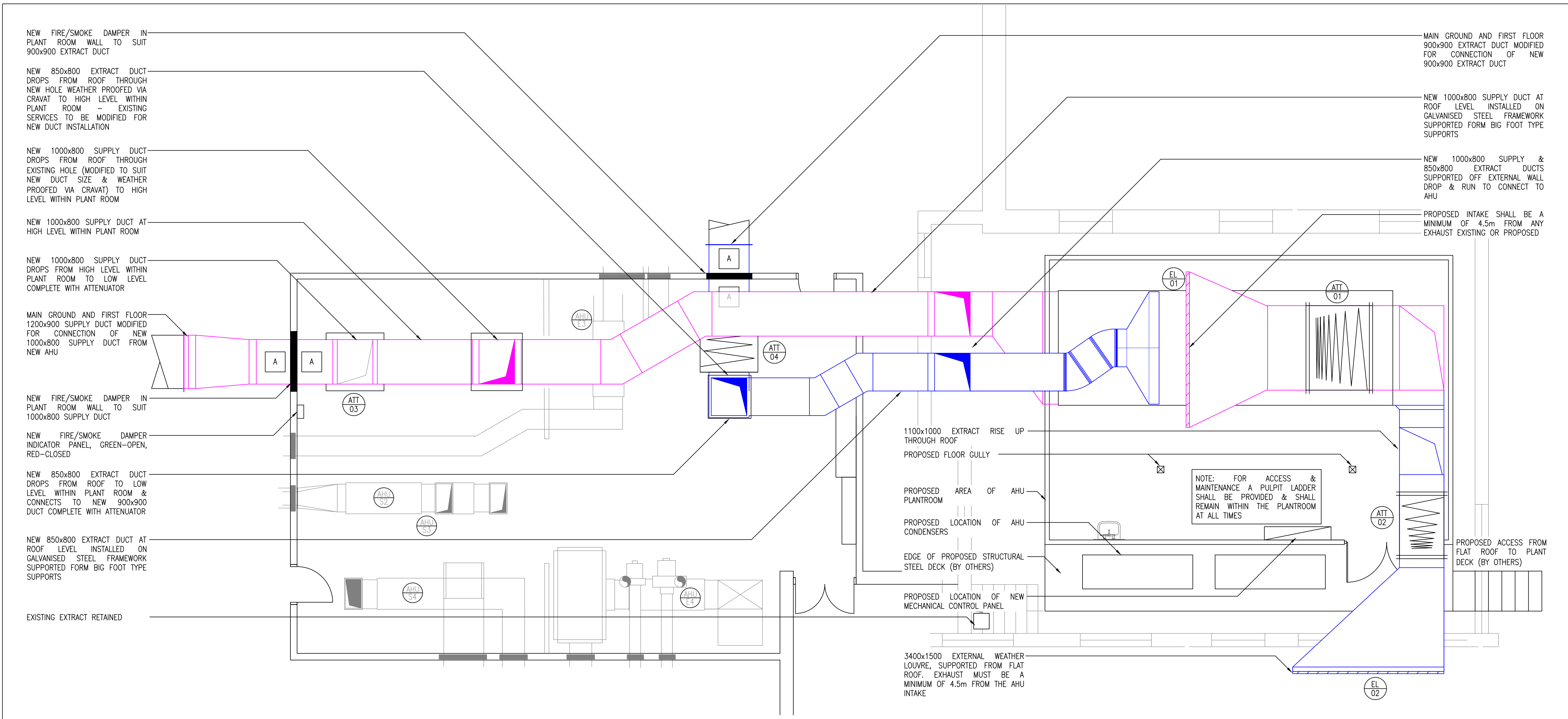


NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER M&E SERVICES DRAWINGS ISSUED ON THE PROJECT.
- REFER TO THE MECHANICAL SERVICES SPECIFICATION FOR THE STANDARD OF INSTALLATION REQUIREMENTS.
- NO WORKS SHALL BE UNDERTAKEN TO ANY OTHER SUPPLY AND EXTRACT AIR SYSTEM OTHER THAN IN THE REPLACEMENT OF AIR HANDLING UNIT REFERENCE S1
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL IN CONSTRUCTION MANUFACTURED & TESTED IN COMPLIANCE TO THE STANDARDS AS INCLUDED WITHIN DW/144.
- THE DUCTWORK CONTRACTOR SHALL ALLOW FOR SETTING UP OR DOWING OF THE DUCTWORK WHETHER SHOWN ON THE DRAWING OR NOT.
- ALL MECHANICAL SUPPLY AND EXTRACT DUCTWORK TO/FROM THE AHUs TO THE CONNECT POINT TO THE EXISTING DUCTWORK SHALL BE THERMALLY INSULATED THROUGHOUT. ALL EXTERNAL DUCTWORK INSULATION SHALL BE FINISHED IN WEATHERPROOF SHEETING, DETAILS AS INCLUDED WITHIN THE PROJECT SPECIFICATION.
- ALL DUCTWORK SHALL INCLUDE ACCESS DOORS AT EACH SIDE OF FIRE/SMOKE DAMPER (FSD) AND VOLUME CONTROL DAMPER (VCD) LOCATIONS AND IN THE DUCTWORK RUNNING LENGTH TO ENABLE FUTURE DUCT CLEANING. THE SPACING OF THE LATTER SHALL BE IN COMPLIANCE WITH HTM 04-01, DW/144, TR/19 GUIDANCE.
- ALL FIRE/SMOKE DAMPERS SHALL BE ELECTRICALLY OPERATED VIA MATCHED ACTUATORS.
- A NEW FIRE/SMOKE DAMPER PANEL SHALL BE INSTALLED, THE INDICATIVE LOCATION OF WHICH IS HIGHLIGHTED ON THE DRAWINGS WITH THE FINAL LOCATION TO BE CONFIRMED BY THE TRUST.
- A FIREMAN'S OVERRIDE SWITCH TO CONTROL THE OPERATION OF THE AHU SUPPLY/EXTRACT FANS SHALL BE INSTALLED ADJACENT TO THE DAMPER PANEL.
- ALL NEW DUCTWORK DURING INSTALLATION SHALL BE CLEANED INTERNALLY IN COMPLIANCE TO THE HIGHEST STANDARD AS INCLUDED WITHIN TR/19.
- THE DUCTWORK INSTALLER SHALL INCLUDE FOR ALL FIXINGS, DUCTWORK SUPPORTS AND BRACKETS IN THE EXECUTION OF THE WORKS.
- ON COMPLETION OF THE VENTILATION SYSTEM INSTALLATIONS INCLUDING PRESSURE TESTING AND CLEANING THEREOF, THE SUPPLY AND EXTRACT SYSTEMS SHALL BE COMMISSIONED IN COMPLIANCE TO CIBSE COMMISSIONING CODE A TO ACHIEVE THE REQUIRED DESIGN AIR FLOW RATES AT EACH INLET/OUTLET LOCATION.
- THE CONTRACTOR SHALL INCLUDE FOR ALL BUILDERS WORK ASSOCIATED WITH THE FORMING OF A NEW HOLE WITHIN THE PLANT ROOM ROOF FOR THE EXTRACT DUCTWORK, MODIFICATION OF THE EXISTING HOLE FOR THE NEW SUPPLY DUCTWORK AND WEATHERING OF THE DUCTWORK & HOLES. THE CONTRACTOR SHALL IN ADDITION INCLUDED FOR ALL BUILDERS WORK ASSOCIATED WITH THE INSTALLATION OF THE NEW FIRE/SMOKE DAMPERS.
- THE CONTRACTOR SHALL EMPLOY A FIRE SPECIALIST TO FIRE SEAL ALL NEW FIRE SMOKE DAMPER INSTALLATIONS TO THE SATISFACTION OF THE FIRE DAMPER MANUFACTURER AND TRUST FIRE OFFICER.



SCHEDULE OF AIR HANDLING UNIT

REF	AHU 01		
TYPE	STACKED		
MANUFACTURER	-		
MODEL REFERENCE	-		
LOCATION	ROOF DECK		
QUANTITY	1		
FAN SECTION	SUPPLY	EXTRACT	
VOLUME FLOW RATE (m³/s)	4.14	3.73	
EXTERNAL PRESSURE (Pa)	350	350	
MOTOR ARRANGEMENT	SINGLE	SINGLE	
CASING	DBL. SKIN	DBL. SKIN	
TYPE	-	-	
POWER SUPPLY (V/Ph/Hz)	-	-	
STARTING CURRENT (A)	-	-	
RUNNING CURRENT (A)	-	-	
MOTOR RATING (kW)	5.50	3.0	
SPECIFIC FAN POWER (W/l/s)	2.0	-	
TOTAL EFFICIENCY (%)	-	-	
COILS	FROST	HEATING	COOLING
ENTERING AIR CONDITION °Cdb/°Cwb	-5/-5	8/1	30/20
LEAVING AIR CONDITION °Cdb/°Cwb	8/-	30/-	15/-
DUTY (kW)	61.14	122.28	103
FLUID TEMP. ON/OFF (°C)	83/64	83/64	T.B.C
FLUID RATE (l/s)	1.58	0.80	T.B.C
FACE VELOCITY (m/s)	<2.5	<2.5	-
DROPLET ELIMINATOR (Y/N)	-	-	Y
MATERIALS TUBE / FINISH	-	-	-
MAX. PRESSURE DROP WATER (kPa)	-	-	-
HEAT RECOVERY	YES		
TYPE	PLATE HEAT EX		
AIR ON (°C) INTAKE/ EXTRACT	-	-	-
AIR OFF (°C) SUPPLY/ DISCHARGE	-	-	-
EFFICIENCY (%)	-		
FACE VELOCITY (m/s)	-		
FILTERS	SUPPLY	EXTRACT	
PANEL	G4	G4	
BAG	F7	F7	
OA DIMENSIONS LxWxH (mm)	7,520x2,580x2,840		
TOTAL OPERATING WEIGHT (kg)	5,003		

NOTE
UNIT MUST BE FULLY HTM-03 COMPLIANT.
PRIOR TO ORDER THE CONTRACTOR SHALL LIAISE WITH AHU
MANUFACTURE & CONFIRM UNIT HANDING

SCHEDULE OF EXTERNAL LOUVRES

REF	EL01	EL02
LOCATION	AHU	AHU
QUANTITY	1	1
SYSTEM	INTAKE	EXHAUST
VOLUME FLOW RATE (m³/s)	4.11	3.73
PRESSURE DROP (Pa)	<20	<20
DIMENSION WxH (mm)	3500x1600	3400x1500
NOISE LEVEL (NR)	-	-
MANUFACTURER	-	-
MODEL REFERENCE	-	-

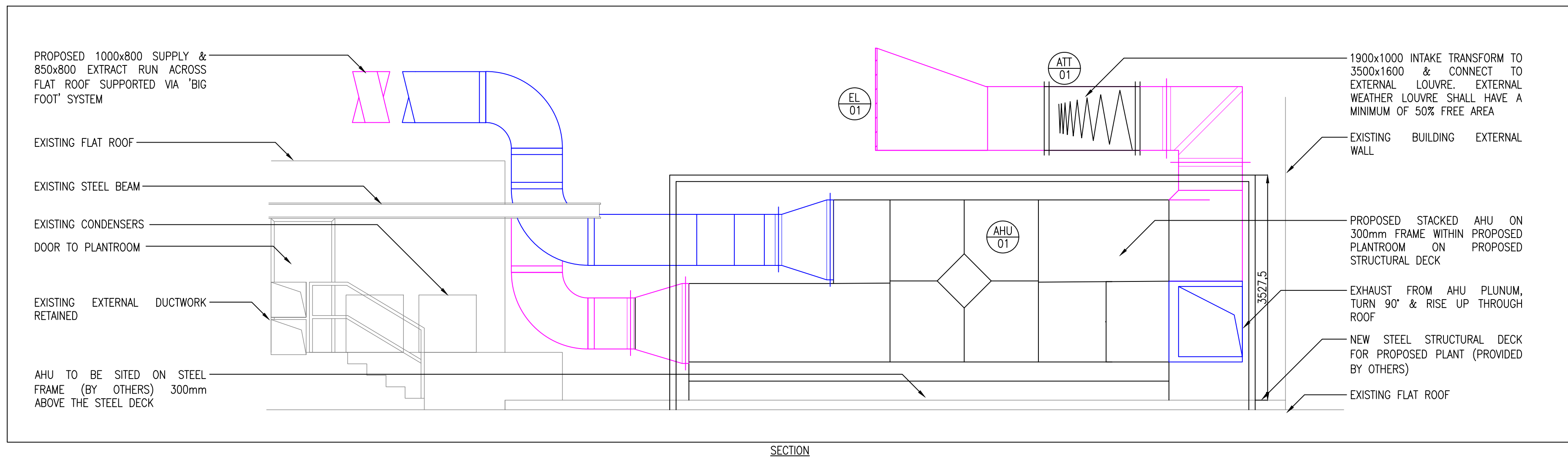
NOTE

- ARCHITECT TO SPECIFY RAL COLOUR PRIOR TO ORDER.
- ALL EXTERNAL LOUVRES TO BE MINIMUM 50% FREE AREA.
- ALL EXTERNAL LOUVRES TO BE COMPLETE WITH BIRD MESH

SCHEDULE OF ATTENUATORS

REF	ATT01	ATT02	ATT03	ATT04
SYSTEM	INTAKE	EXHAUST	SUPPLY	EXTRACT
AIR VOLUME (m³/s)	4.11	3.73	4.11	3.73
PRESSURE DROP (Pa)	<30	<30	<30	<30
DUCTWORK SIZE (mm)	1900x1000	1100x1000	1000x800	850x800
DIMENSIONS WxHxL (mm)	1900x1000x1500	1200x1000x1500	1300x1300x1500	1200x1000x1500
MANUFACTURER	-	-	-	-
TYPE	-	-	-	-

PLAN



SECTION

T1	27.10.21	MT	IF	FOR COMMENT
REV.	DATE	DRN	CHKD	DESCRIPTION
JCP CONSULTING ENGINEERS Ltd JCP CONSULTING ENGINEERS Ltd. SPRINGFIELD HOUSE HARROGATE CONVENTION CENTRE HARROGATE, HG1 5NX TEL: 0113 387 3252 E-Mail: info@jcpe.com Website: www.jcpe.com				
Client				
Architect				
Project				
DEWSBURY & DISTRICT HOSPITAL STAINCLIFFE BUILDING REPLACEMENT OF GENERAL AHU S1				
Title				
MECHANICAL SERVICES ROOF PLANT ROOM PROPOSED VENTILATION LAYOUT				
Scale:	Sheet:	Date:	Drawn by:	
1:50	A1	OCT. 2021	MT	
Project No.:	C/SFB Code:	Block:	Drg. No.:	Revision:
L2176	(57)	-	002	T1
Status:				
TENDER				