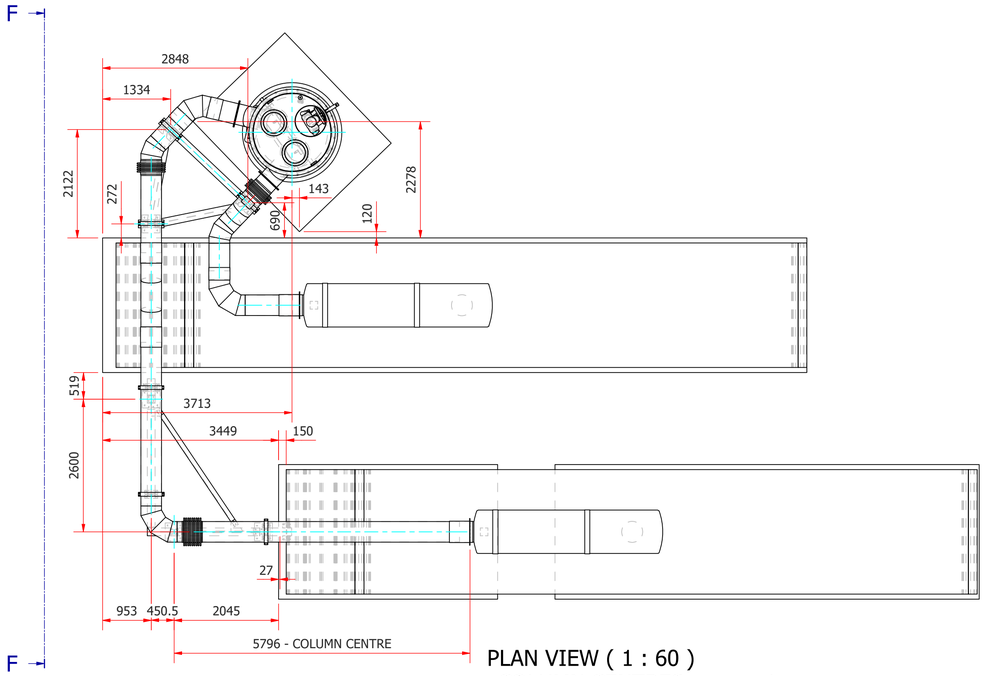
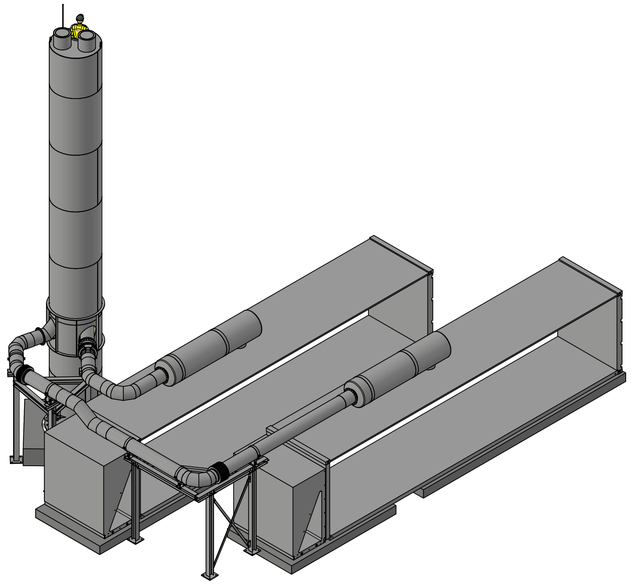
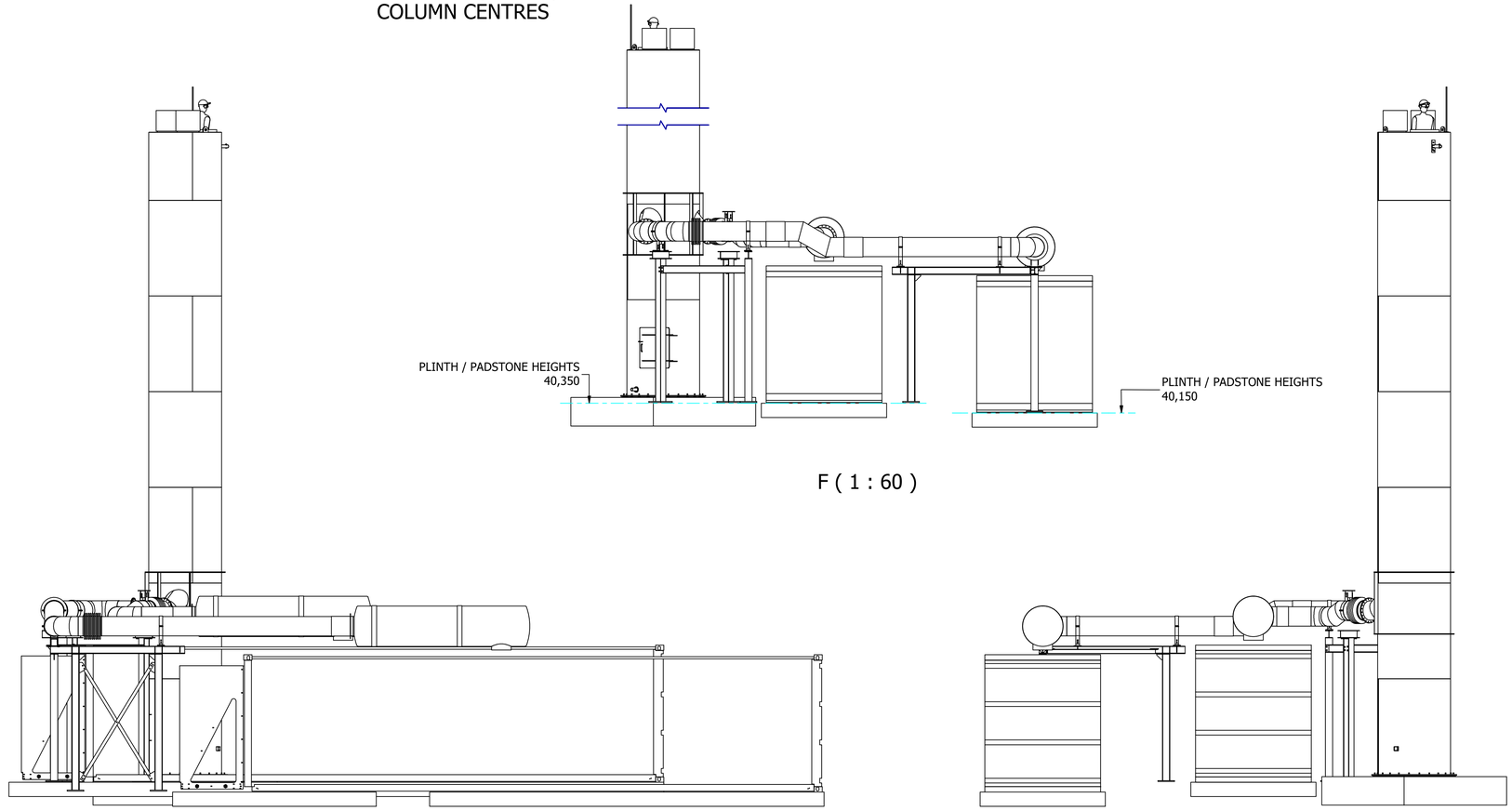


PLAN VIEW (1 : 60)
COLUMN CENTRES



ISO VIEW (1 : 89)



F (1 : 60)

Design Specification:

Chimney Height:	14m
Design & Manufacturing Code (Chimney & Flues):	EN 13084-7 (EN1993-3-2 Part III & EN1090 Exc.2)
Design & Manufacturing Code (Structural Steel):	EN1090 Exc.2
Certification:	UKCA / CE Marked
Corrosion Allowance:	TBC
Inspection:	TBC
Operating Temperature:	TBC
Max Pressure Drop:	3mbar
Gas Flow Rate:	TBC
Medium:	Engine Exahust Gas
NDT:	According to Code

Materials (minimum grades, higher grades acceptable)

Chimney	
Structural Shell:	EN10025 S275 J0
Helical Strakes, Flanges, Base, Gussets & Stiff':	N/A
FLue Liner:	ASTM 240 316L Stainless
Bolts:	DIN 931/933 Gr 8.8 Galv to EN10684

Exhaust Flues

Flues:	ASTM A240 316L Stainless
Expansion Bellows:	316L Stainless
Flanges:	304L Stainless
Flue Gaskets:	815 Thermiculite or Equivalent
Bolts:	Din 931, Gradge A2-304 Stainless

Flue support Material

Structural Steel:	EN10025 S275 JR
Bolts:	DIN 931/933 Gr 8.8 Galv to EN10684

Finish

Welds:	Left neat as laid
Flue Finish:	Welds cleaned, surfaces self colour
Paint, chimney internal:	Spatter removed, 2 coats heat resistant silver
Paint, Chimney External:	Blasted to SA2.5 3 coats 2 pack epoxy, min 200 microns
Paint Colour, Chimney:	TBC
Structural Steel:	Hot Dip Galvanised ISO 1461:2009

Insulation & Cladding

Insulation, Chimney FLue Liner:	80mm THK, prorox 960. 100Kgm³
Insulation, Exhaust & Secondary silencers:	BY OTHERS
Cladding, Exhaust Flues & secondary Silencers:	0.7mm THK Aluzinc

Weights

Chimney - Lower section:	TBC kg
Chimney - Upper section:	N/A
Flues - Primary silencer to WHB:	TBCkg Insulated and Clad GENERATOR A
Flues - Secondary silencer to Chimney:	TBCkg Insulated and Clad GENERATOR B
Stuctural Steel Weight:	---kg
Total Supply Weight:	---kg

General Notes:

Hartwell Scope of Supply:	Chimney, Exhaust flues & support steelwork Fasteners & Gaskets supplied loose Chimney Anchor Basket - supplied loose installed by others Insulation and cladding of secondary silencer
Installation (scope of supply only):	Hartwell
Termination Points:	As denoted by TP
Flanges:	Bolt holes off Centre
Civil Works & Grouting:	By others
Any item not specified:	By others

TOLERANCE CLASS	2 TO 30	OVER 30 UP TO 120	OVER 120 UP TO 400	OVER 400 UP TO 1000	OVER 1000 UP TO 2000	OVER 2000 UP TO 4000	OVER 4000 UP TO 8000	OVER 8000 UP TO 12000
	TOLERANCES IN mm							
A	± 1	± 1	± 1	± 2	± 3	± 4	± 5	± 6
B		± 2	± 2	± 3	± 4	± 6	± 8	± 10
C		± 3	± 4	± 6	± 8	± 11	± 14	± 18
D		± 4	± 7	± 9	± 12	± 16	± 21	± 27

NOTE: AS A MINIMUM, TOLERANCE CLASS B SHALL BE ADHERED TO, UNLESS CLASS A IS REQUESTED

SEE DRAWING 24974-001
FOR THE ORIGINAL FLUE FABRICATION DRAWINGS

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
C	SUPPORT LEG MOVED TO MISS DRAIN FFL CORRECTED TO PLINTH / PADSTONE HEIGHT	09/09/2024	

Drawn By	Checked by	Approved by	Date		Date	
DS					02/09/2024	

iPOWER GENERATION
INTELLIGENT GREEN POWER

TITLE: MODIFIED FLUE LAYOUT

DWG No: 24974-0041 | Edition: C | Sheet: 1 / 3