

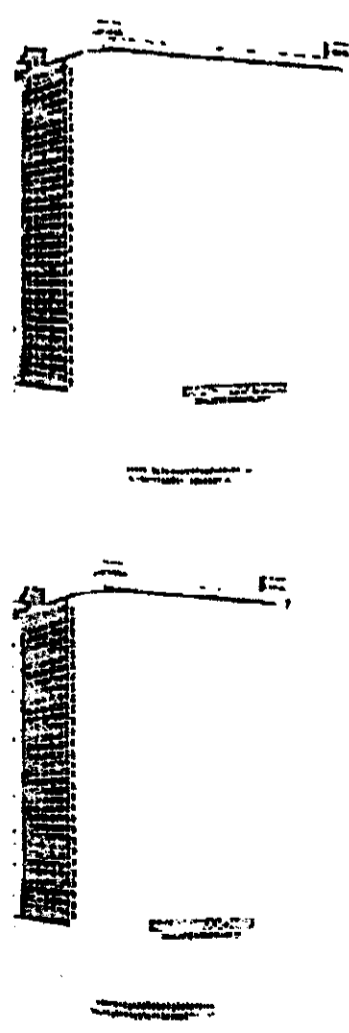


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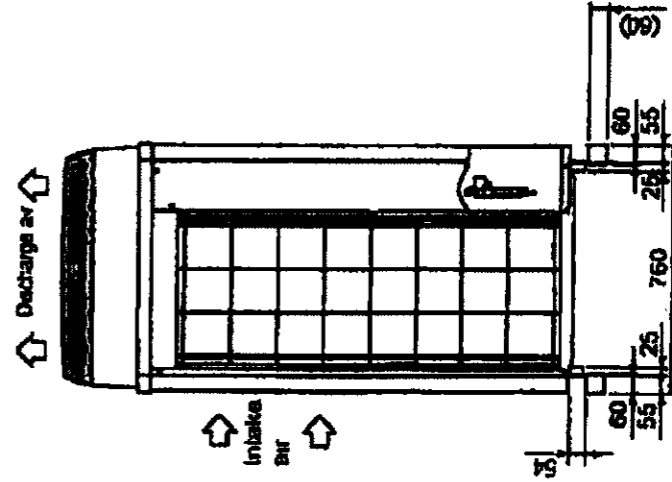
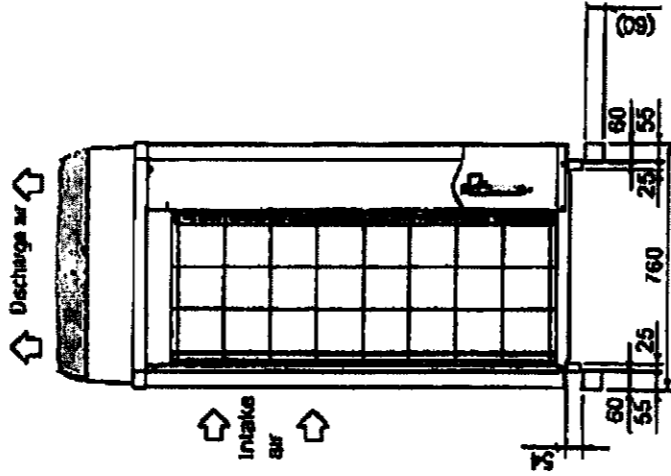
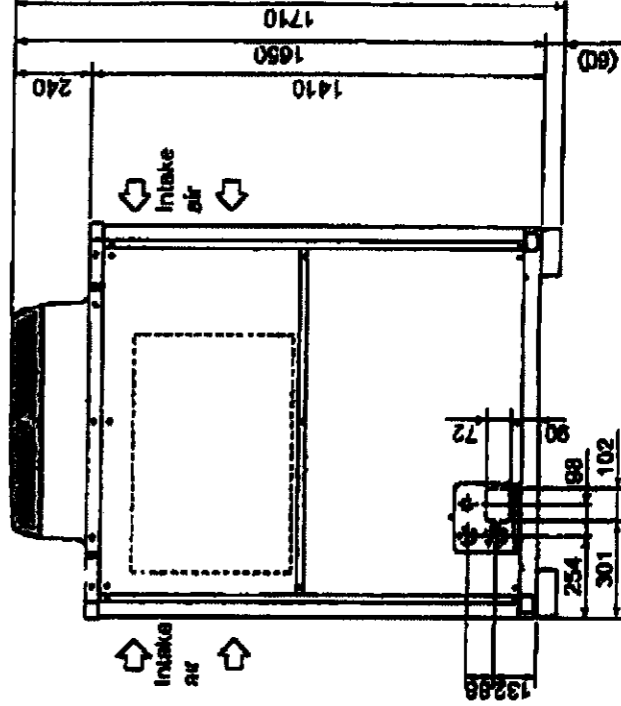
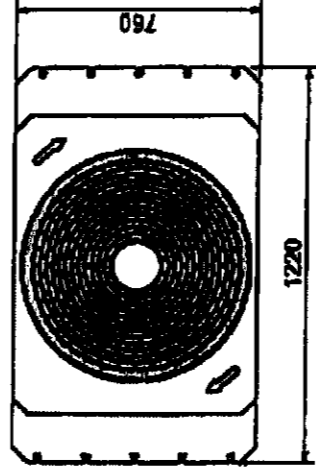
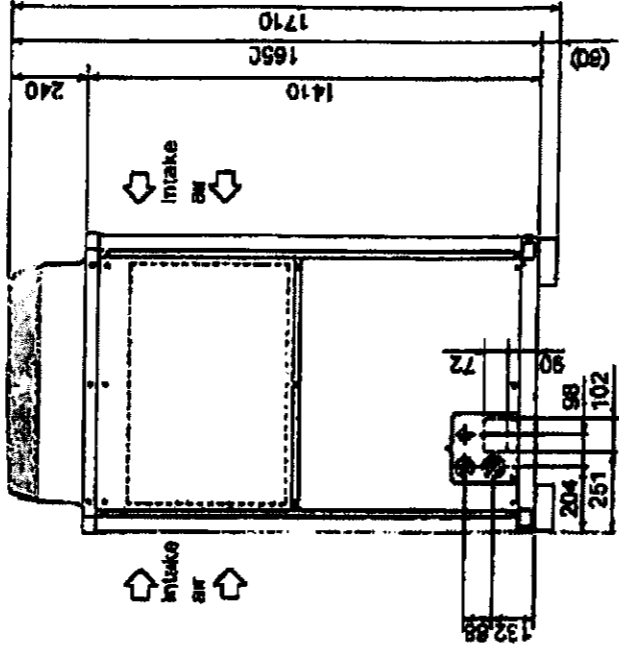
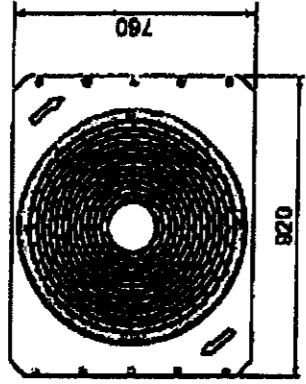
APPENDIX C
HEAT PUMP INFORMATION FOR PROPERTY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

ROOM NO.	ROOM NAME	ROOM AREA (sqm)	ROOM VOLUME (cu m)	MAX NO. OF CONNECTABLE INDOOR UNITS	AIRFLOW (m ³ /min) High	NOISE (dBA)	WEIGHT (kg)	DIMENSIONS (mm) Width / Depth / Height	ELECTRICAL SUPPLY	PHASE	STARTING CURRENT (A)	RUNNING CURRENT (A) Heating / Cooling	FUSE RATING (MCCB) (kA @ 600V-2p) - (A)	MAINS CABLE No. Core	1000m max	150m max	50m max (when max of outdoor installed below)	15m max
	PUHY-P250YH-A	58.0	1620.0	21	185	57	200	920 / 760 / 1710	380-15%, 50Hz	3	8	12.1 / 11.9	11.9	30	4 + earth	20	25	32
	PUHY-P350YH-A	45.0	1260.0	26	185	59	215	920 / 760 / 1710	380-15%, 50Hz	3	8	14.5 / 14.8	14.8	25	4 + earth	25	32	40
	PUHY-P350YH-A	40.0	1120.0	30	225	60	245	1220 / 760 / 1710	380-15%, 50Hz	3	8	18.6 / 17.3	17.3	32	4 + earth	32	40	40
	PUHY-P250YH-A	50.0	1400.0	34	225	61	245	1220 / 760 / 1710	380-15%, 50Hz	3	8	20.8 / 20.4	20.4	32	4 + earth	32	40	40
	PUHY-P250YH-A	50.0	1400.0	39	225	62	245	1220 / 760 / 1710	380-15%, 50Hz	3	8	23.7 / 23.1	23.1	40	4 + earth	40	50	50
COPPER (normal) 4.02 / 3.62 3.99 / 3.69 3.72 / 2.57 3.71 / 3.40 3.64 / 3.07 Heating (normal) 28.0 33.5 40.0 45.0 45.0 Heating (UK) 28.7 33.0 39.6 44.0 48.7 Cooling (UK) 26.6 31.5 37.6 42.3 46.0 Heating (normal) 7.83 9.39 12.09 13.47 15.38 Cooling (normal) 7.73 9.07 11.20 13.23 16.28 Heating (UK) 7.75 9.11 11.23 13.07 14.00 Cooling (UK) 4.79 6.21 8.29 9.79 11.00																		



mitsubishi puhy-p250





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APPENDIX D

HEAT PUMP INFORMATION FOR SWIMMING POOL

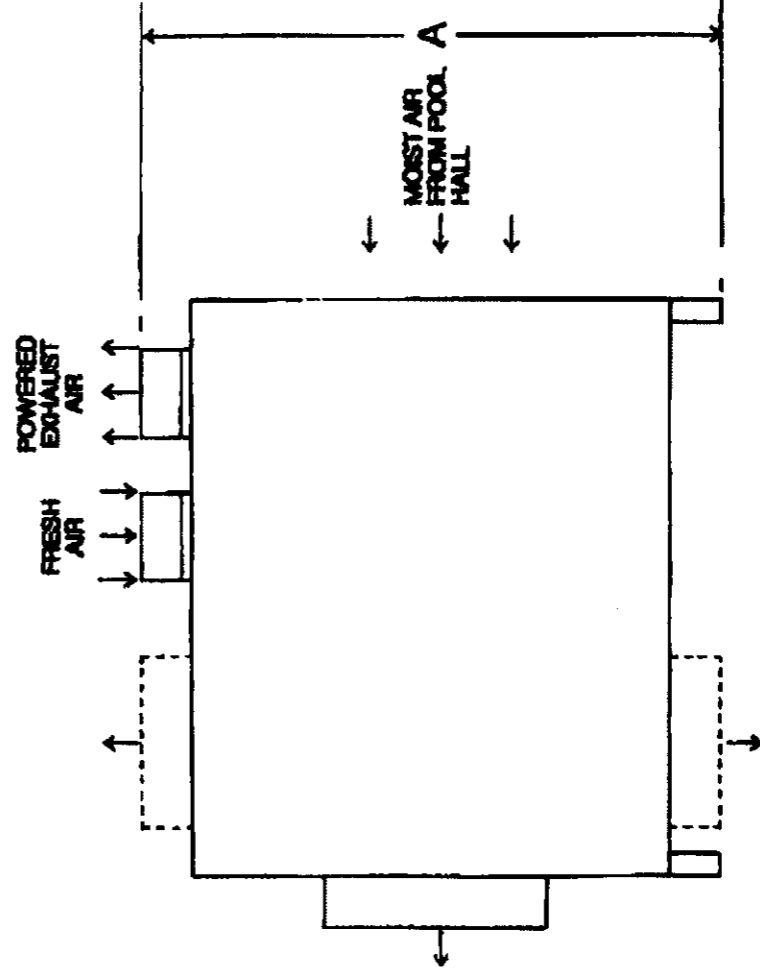
SWIMMING POOL HEAT PUMP

Calorex DELTA Specifications

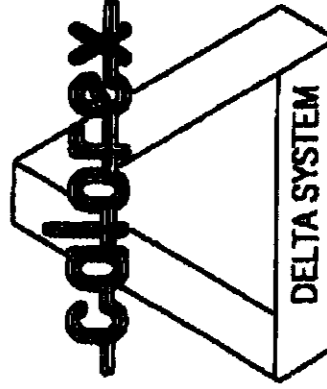
MODEL	1	2	4	6	8	10	12
POOL AIR RECIRCULATION FAN AIR FLOW M ³ /HR:-	2500	2600	3000	4000	5000	6000	7000
EXHAUST / FRESH AIR FAN AIR FLOW M ³ /HR (STEPPED CONTROL):-	120-1200	130-1300	150-1500	200-2000	250-2500	300-3000	350-3500
DEHUMIDIFICATION DUTY LITRES/HR @ 28deg C 60% RH TOTAL DUTY BY HEAT PUMP & FRESH AIR DILUTION:-	9.5	10.7	12.1	16.1	20.1	24.2	28.2
HEAT TO AIR KW							
VIA HEAT PUMP (MODE "A"):-	1.3	1.5	1.4	1.5	1.6	2	2.5
VIA HEAT PUMP (MODE "B"):-	3.85	4.9	5.1	6.6	8	10	12.1
VIA LPHW @ 80 deg C:-	20	22	25	30	35	38	42
MAX AVAILABLE (Mode B + LPHW):-	23.85	26.9	30.1	36.6	43	48	54.3
HEAT TO POOL WATER KW							
VIA HEAT PUMP (MODE "A"):-	4	5.5	5.8	8	10	12.5	15
VIA HEAT PUMP (MODE "B"):-	17	2.2	2.3	3	3.7	4.6	5.5
VIA LPHW @ 80 deg C:-	10	10	10	15	15	19	19
MAX AVAILABLE (Mode A + LPHW):-	14	15.5	15.8	23	25	31.5	34
COOLING DUTY (sensible) KW:-	-2*	-2.5*	-2.94	-3.85	-4.7	-5.9	-7.1
COOLING DUTY (TOTAL) KW:-	-3*	-4*	-4.2	-5.5	-6.7	-8.4	-10.1
* = Summer cooling in mode "A"							
RECOMMENDED BOILER CAPACITY KW:-	30	32	35	45	50	60	70
TOTAL POWER CONSUMED (nominal) KWH:-	3.18	3.84	3.94	5.12	6.25	7.8	9.35
RECOMMENDED POOL SIZE M ² :-							
DOMESTIC USE (light):-	50	65	70	90	110	130	160
HOTEL/CLUB USE (medium):-	45	55	60	80	100	120	140
MUNICIPAL USE (heavy):-	40	50	55	70	90	110	130

FOR ACCURATE APPLICATION SIZING CONSULT THE PG GROUP HEAT PUMPS DIVISION

Supply Air Options



MODELS	1 & 2	4, 6 & 8	10 & 12
A	1735	1910	1855
B	1530	1620	1620
C	655	705	855



Optional Equipment

- Return Air Duct Spigot
- Return Air/Fresh Air Filter Kit
- Models 1-6 Single or Three Phase
- Models 8-12 Three Phase Only
- Supply Fan Outlet Options On Request

A British product marketed by:

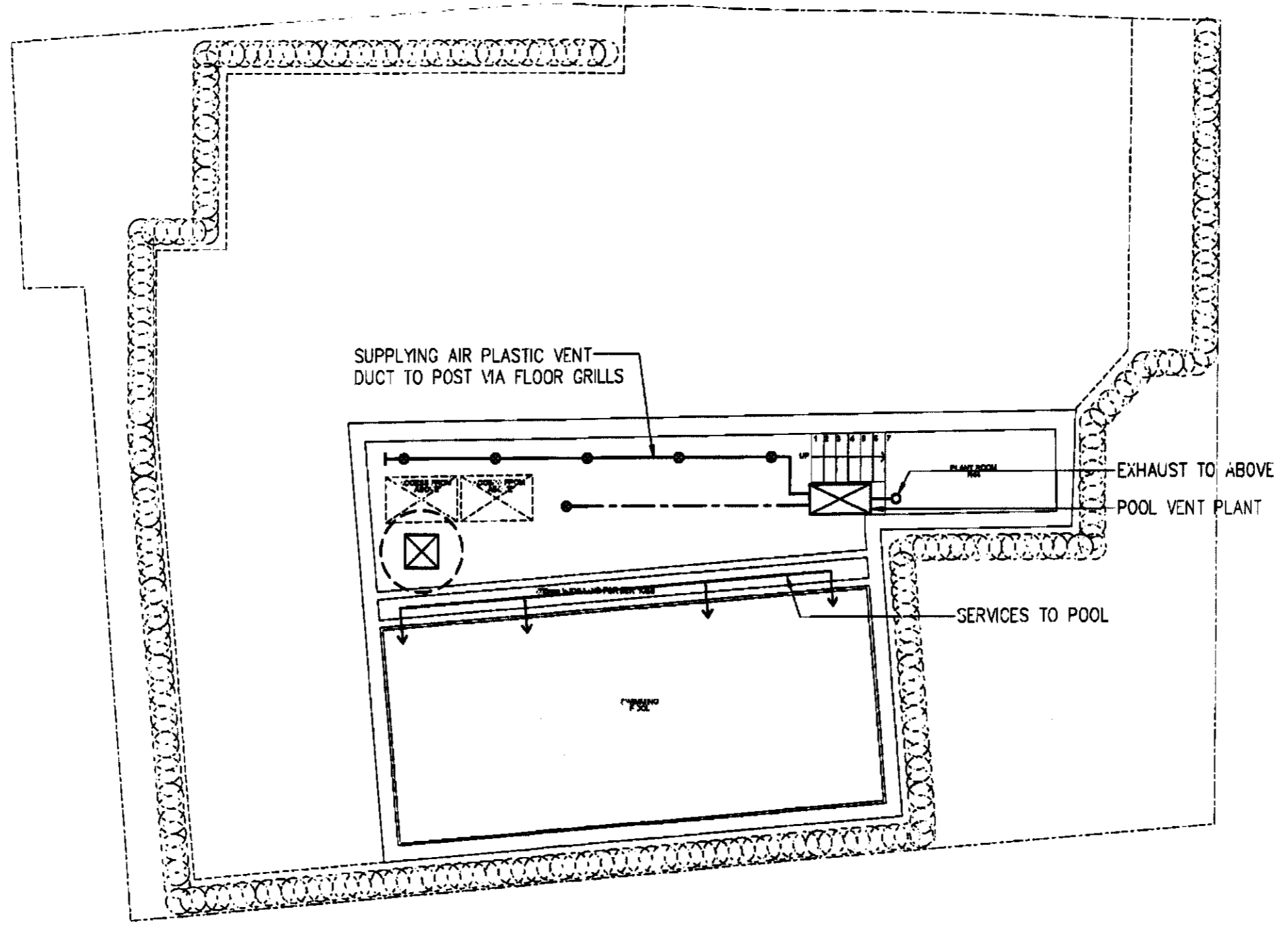
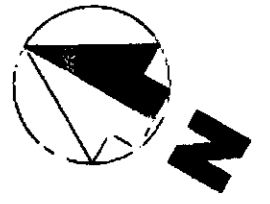
POOL GBAR

Unit 2 Wilton Park, Station Lane Ind. Est.,
Witney, Oxon OX8 6FH

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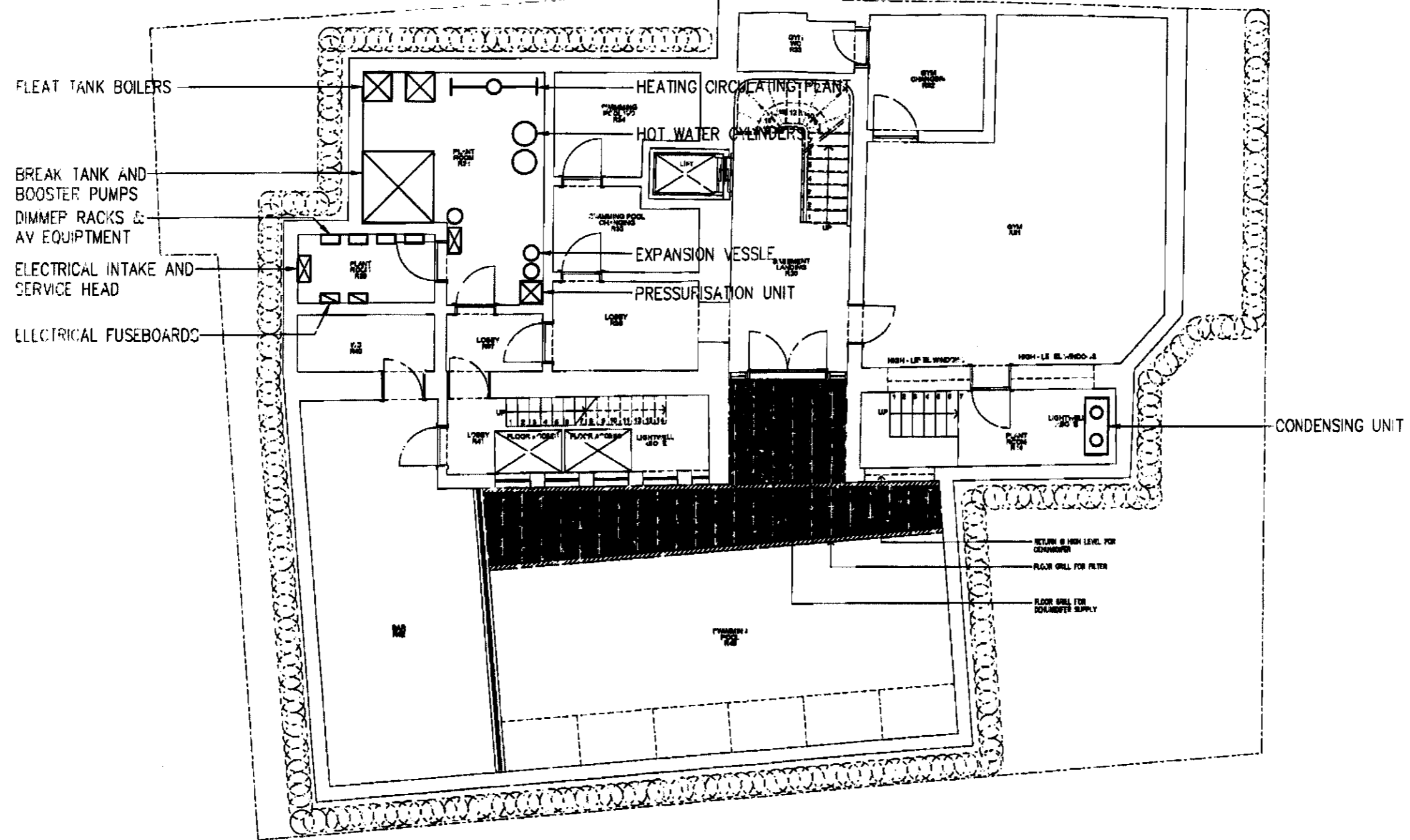
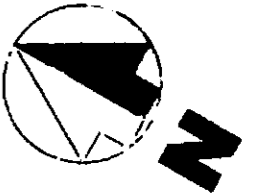
APPENDIX E

Drawing No's :
5819/M/1P
5819/M/2P
5819/M/3P
5819/M/4P
5819/M/5P
5819/M/6P
5819/M/7P



The Kut Partnership
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 fax +44(0)20 8340 8926
 email tkp@kut.co.uk
 web www.kut.co.uk

Description			PLANNING - SUB BASEMENT PLAN				ref. date	REVISIONS			
							P	PLANNING ISSUE			06.07.11
Scale	A3@1:100	Drawn	PJ	THE PHENE, 9 PHENE STREET, LONDON, SW3				Project No.	Services	Dwg No.	Rev.
Date	July 2011	checked						5819	M	1	P



KUT

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 Email: tkp@kut.co.uk
 Web: www.kut.co.uk

Description

PLANNING - BASEMENT PLAN

ref. date
 P
 06.07.11

REVISIONS
 PLANNING ISSUE

Scale A3@1:100

Drawn PJ

Project

THE PHENE, 9 PHENE STREET, LONDON, SW3

Project No.
5819

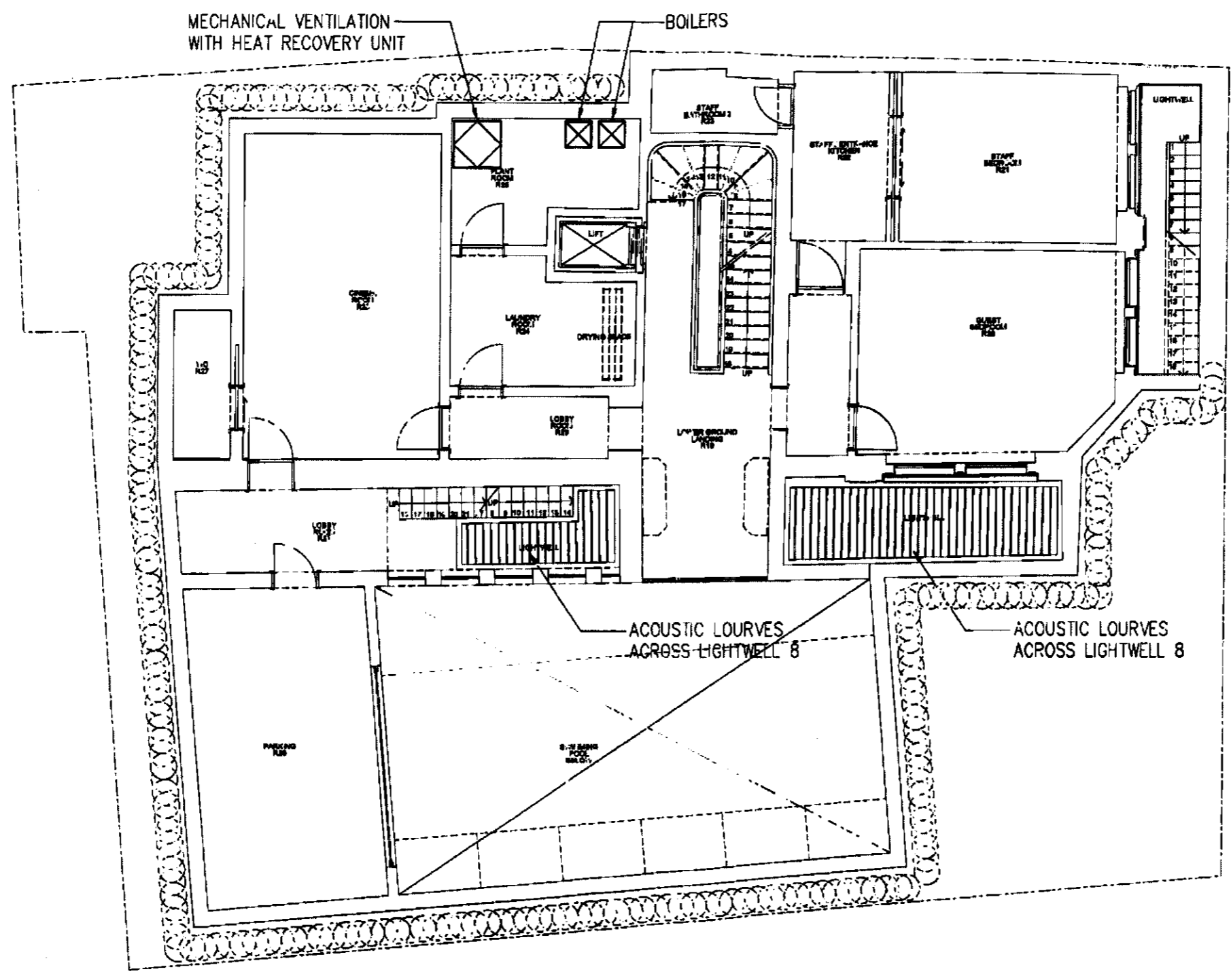
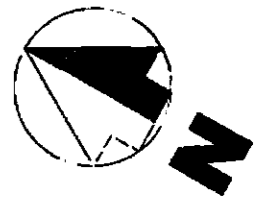
Service
M

Org. No.
2

Rev.
P

Date
 July 2011

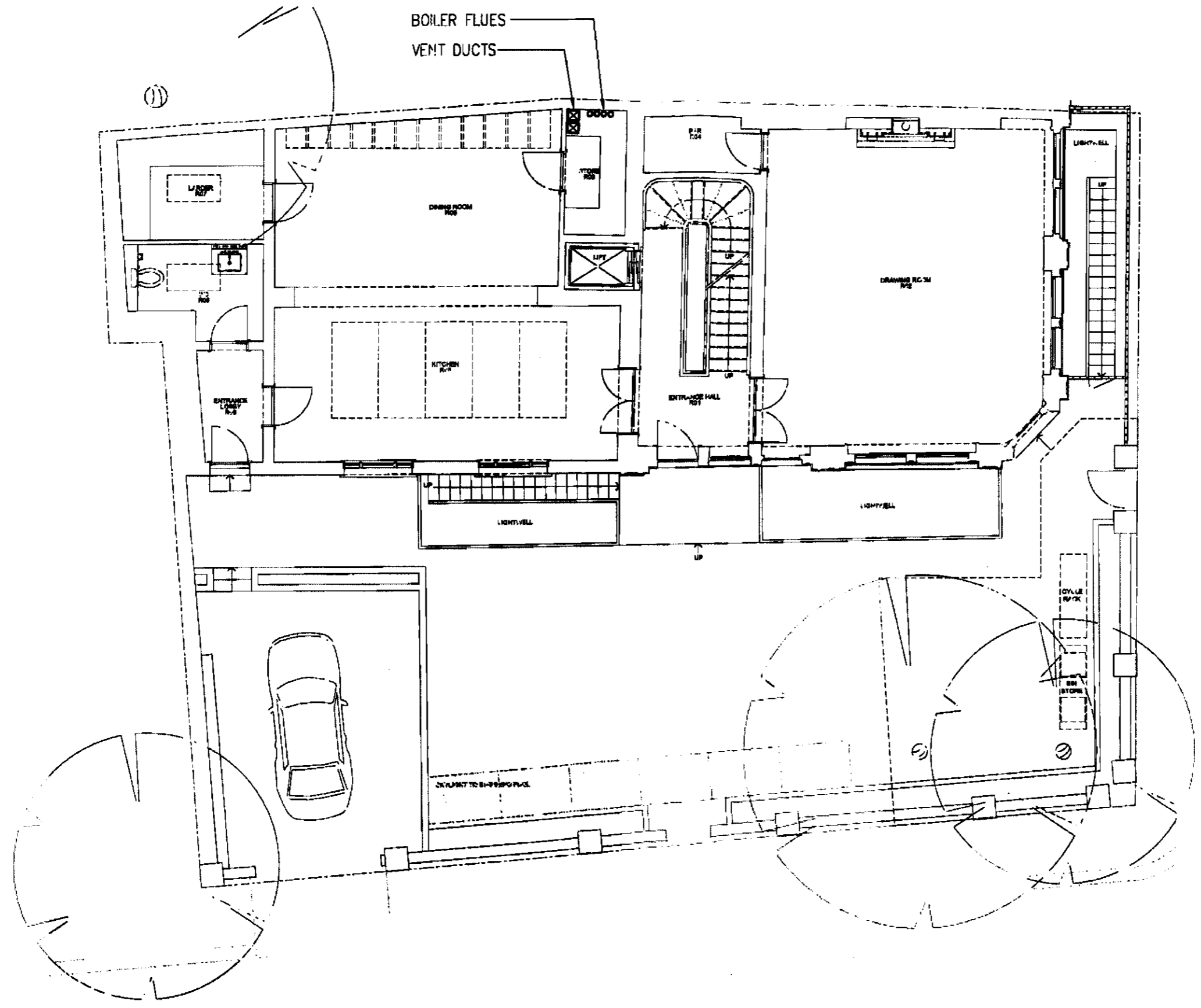
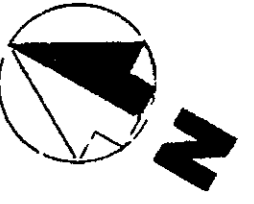
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Description			PLANNING - LOWER GROUND PLAN				ref. date	REVISIONS			
Scale A3@1:100							Drawn	PJ	Project	P	PLANNING ISSUE
Date July 2011			Checked				06.07.11	Project No.	Services	Dwg No.	Fe.
						5819			M	3	P

THE PHENE, 9 PHENE STREET, LONDON, SW3



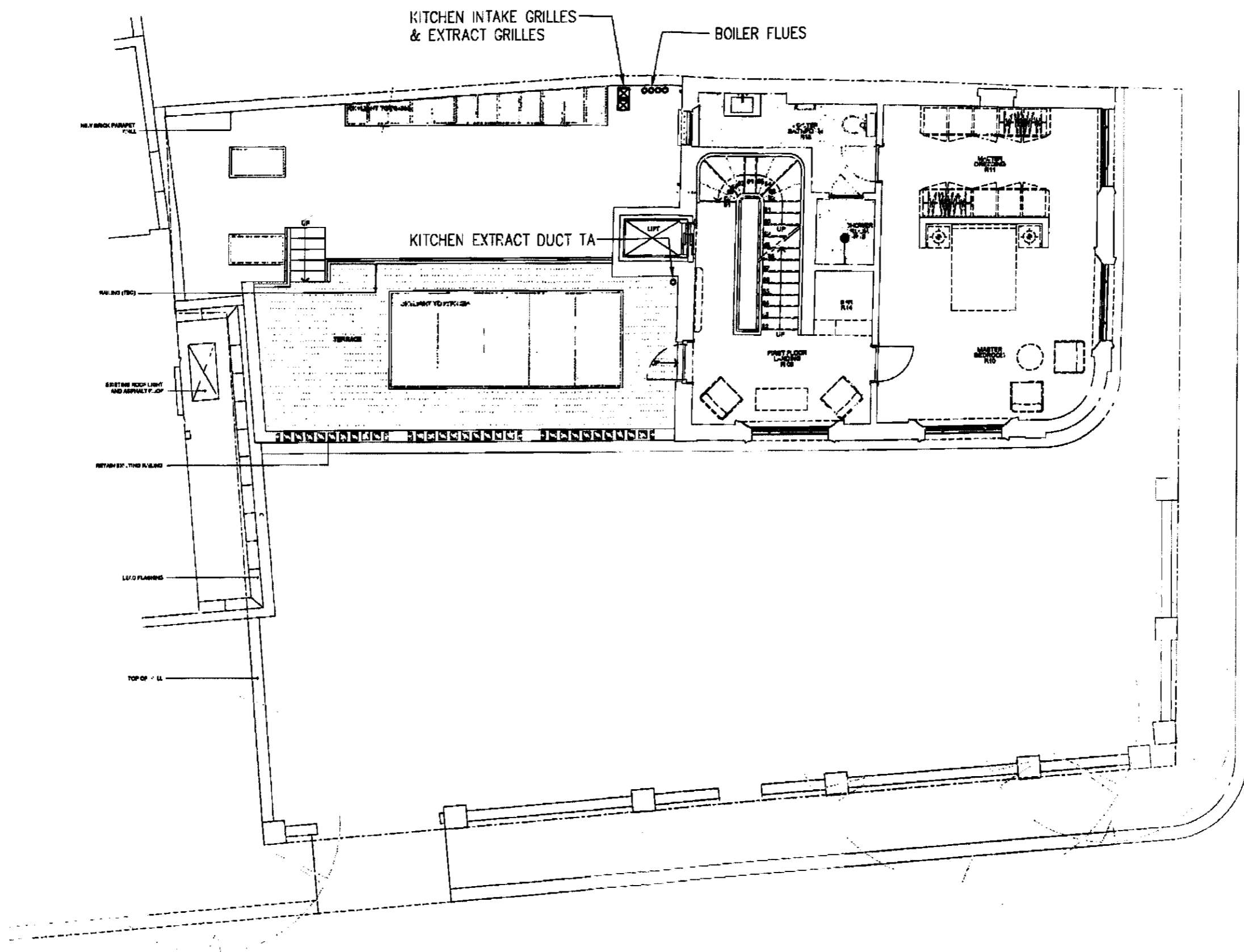
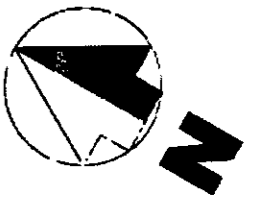
PLANNING - GROUND FLOOR PLAN

THE PHENE, 9 PHENE STREET, LONDON, SW3

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 Web: www.kut.co.uk

Description		Project	
Scale	Drawn	Project	
A3@1:100	PJ		
Date	Checked		
July 2011			

ref. date	REVISIONS		
P 06.07.11	PLANNING ISSUE		
Project No.	Services	Dwg No.	Rev.
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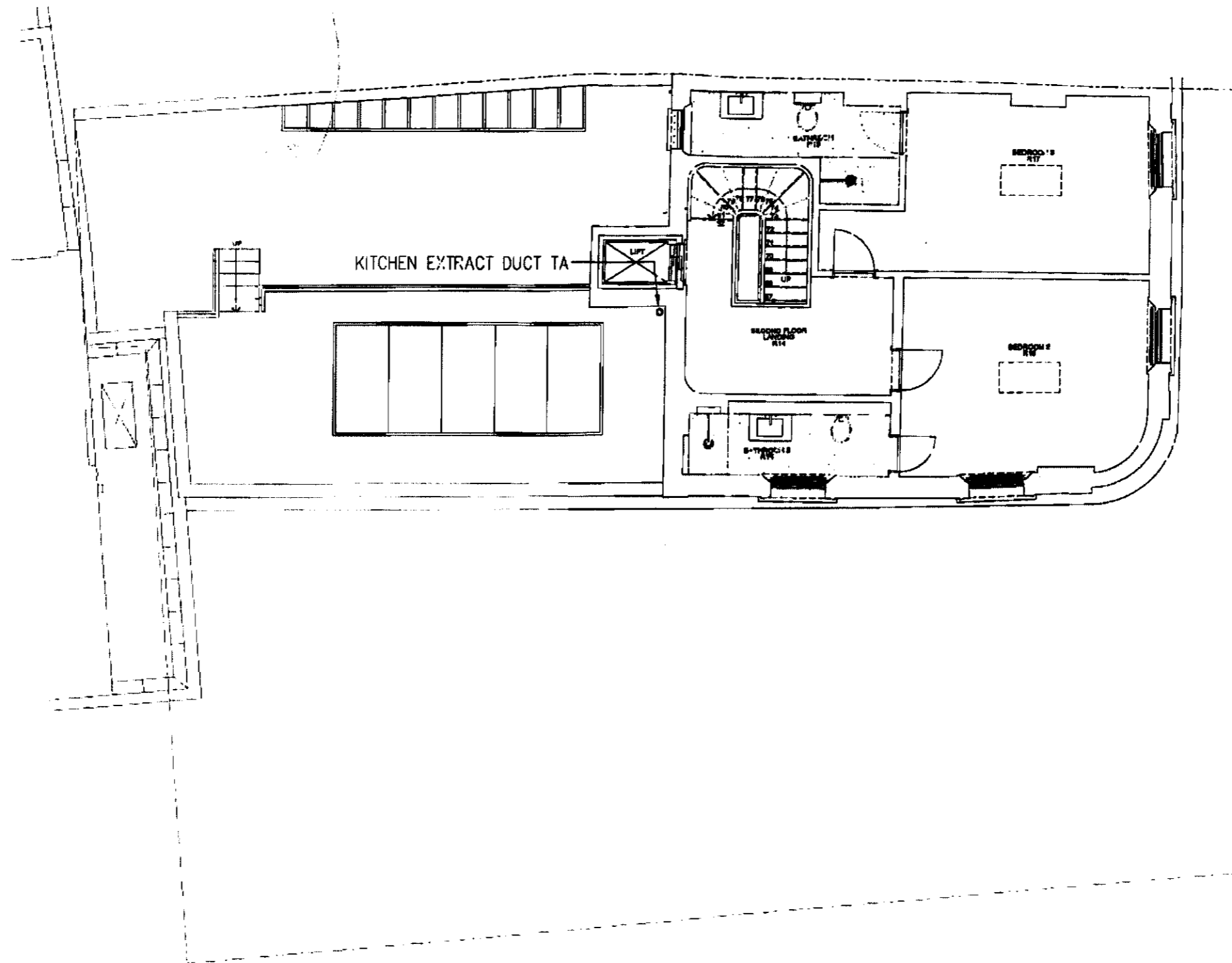
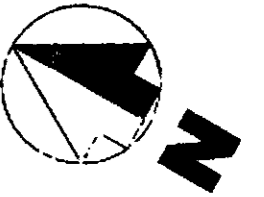
PLANNING - FIRST FLOOR PLAN

THE PHENE, 9 PHENE STREET, LONDON, SW3



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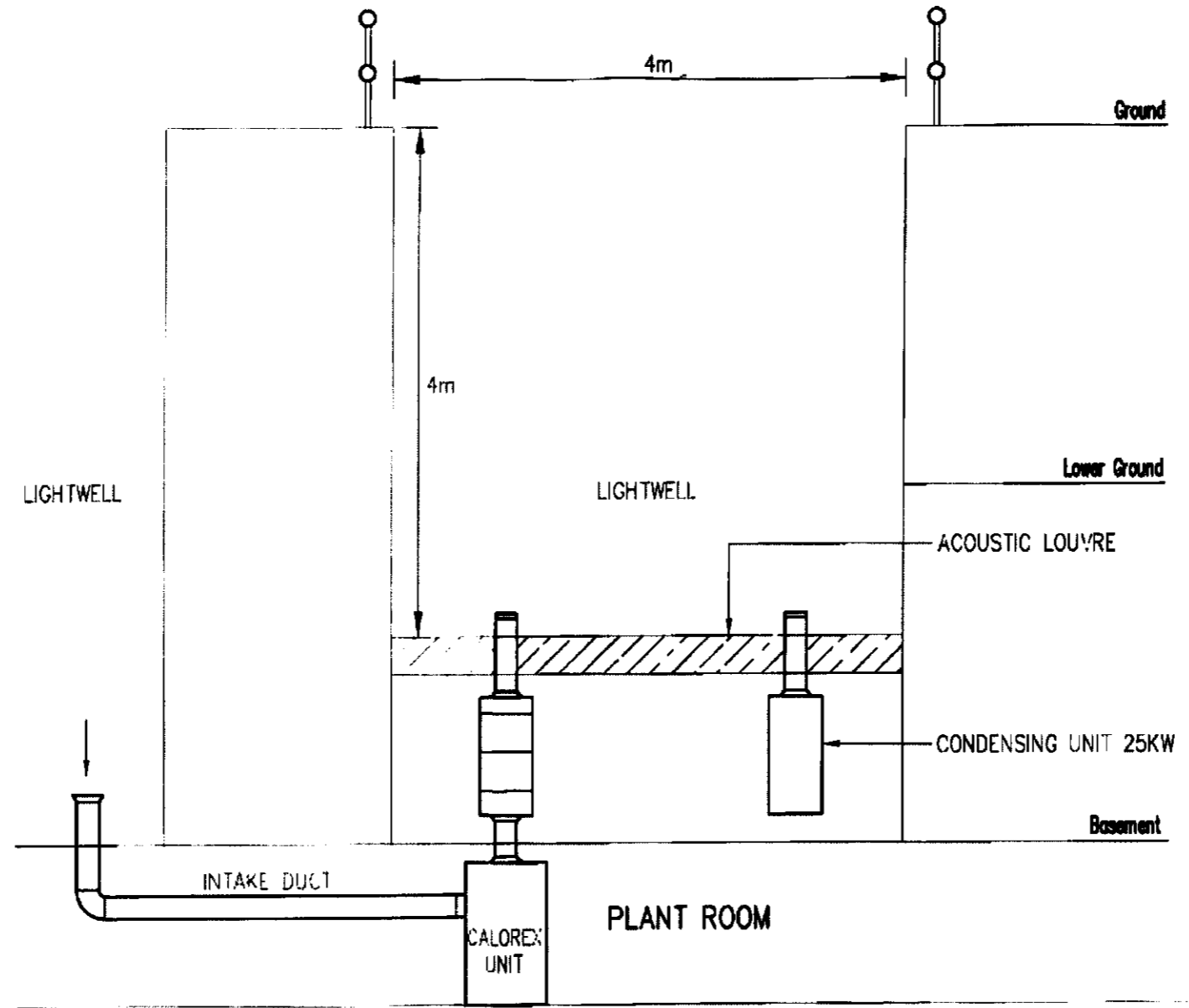
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Scale	Drawn	Project No.	Services	Dwg No.	Rev.
A3@1:100	PJ	5819	M	5	P
Date	Checked				
July 2011					



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 Web: www.kut.co.uk

Description				PLANNING - SECOND FLOOR PLAN			
Scale	A3@1:100	Drawn	PJ	Project			
Date	July 2011	Checked		THE PHENE, 9 PHENE STREET, LONDON, SW3			

ref. date	REVISION		
P 06.07.11	PLANNING ISSUE		
Project No.	Services	Draw No.	Rev.
5819	M	6	P



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 Fax: +44(0)20 8340 8828
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 Website: www.kut.co.uk

Description			PLANT ROOM SECTION			
Scale: A3@1:50	Drawn: PJ	Project:	THE PHENE, 9 PHENE STREET, LONDON, SW3			
Date: July 2011	Checked:					

ref./date	REVISIONS			
P 06.07.11	PLANNING ISSUE			
Project No.	Services	Dwg No.	Rev.	
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