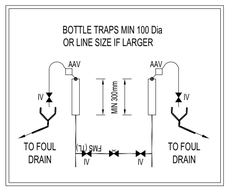
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATION REF MP-TGA-XX-XX-M-59-0001
3. ALL PIPE SIZES ARE PROVISIONAL
4. ALL EQUIPMENT SELECTIONS ARE PROVISIONAL
5. COMMUNITY HEATING PIPE WORK INCLUDING CONNECTION INTO HIU SHALL BE IN BS EN10255 MEDIUM GRADE MILD STEEL
6. USE COMPATIBLE MILD STEEL OR MALLEABLE IRON FITTINGS
7. SCREW AND SOCKET JOINTING FOR PIPE SIZES < DN50, BUTT WELDED JOINTING FOR PIPE SIZES > DN65
8. DWELLING CENTRAL HEATING SYSTEM PIPE WORK SHALL BE IN BS 7291 CROSS-LINKED POLYETHYLENE (PE-X) BARRIER PIPE
9. USE COMPATIBLE MECHANICAL PIPE FITTINGS FOR CONNECTIONS AT F&R HEADERS/UFH MANIFOLDS AND RADIATORS
10. RADIATOR TAILS, WHERE VISIBLE, SHALL BE IN BS EN105 CAPILLARY JOINTED COPPER PIPE AND FITTINGS
11. PIPE WORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS AND BRACKETS
12. PIPELINES PASSING THROUGH A FIRE RATED ELEMENT OF CONSTRUCTION SHALL INCLUDE A PIPE SLEEVE AND PROPRIETARY FIRE STOPPING
13. INCLUDE MANUAL AIR COCKS AT HIGH POINTS AND DRAIN COCKS AT LOW POINTS
14. SERVICE ISOLATING VALVES SHALL BE 1/4 TURN BALL TYPE
15. ALL VALVES AND ACCESSORIES SHALL BE ACCESSIBLE
16. ALL PIPELINES SHALL INCLUDE THERMAL INSULATION
17. THERMAL INSULATION SHALL BE CONTINUOUS IN THE RUNNING LENGTH, CONTINUOUS THROUGH SUPPORTS AND OVER FITTINGS
18. CIRCULATING PUMPS AND MOTORISED CONTROL VALVES SHALL BE THERMALLY INSULATED USING PROPRIETARY PRE-MADE INSULATION SHELLS
19. VALVES, STRAINERS AND OTHER PIPELINE ACCESSORIES SHALL INCLUDE PROPRIETARY TIE-ON INSULATED JACKETS

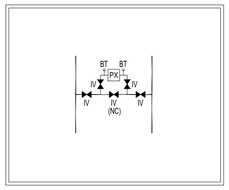
LEGEND:

- DISTRICT HEATING FLOW
- DISTRICT HEATING RETURN
- DIRECTION OF FLOW
- IV — ISOLATING VALVE [NO] DENOTES NORMALLY OPEN [NC] DENOTES NORMALLY CLOSED
- DC — DRAIN COCK
- AAV — AUTOMATIC AIR VALVE
- FMS — FLOW MEASURING STATION
- DRV — DOUBLE REGULATING VALVE
- FMS (TL) — PRESETABLE THERMOSTATIC VALVE (EG OVENTROP "AQUASTORM T-PLUS") PRESSURE COMPENSATED
- BT — BINDER TEST POINT
- HIU — HEAT INTERFACE UNIT
- PX — PRESSURE TRANSDUCER (LINKED TO DISTRICT HEATING PUMPS)

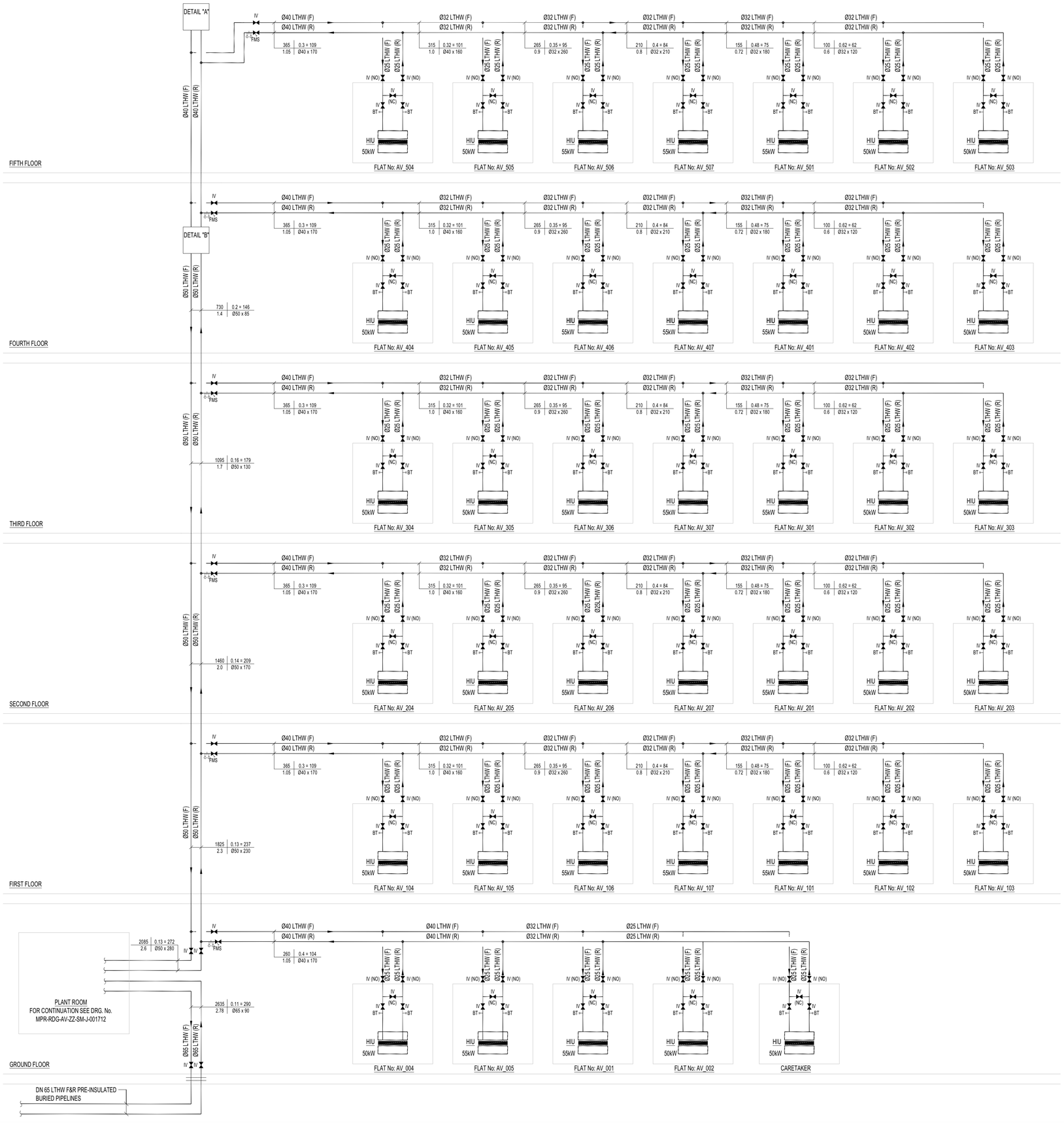
MAX. INST. LOAD (KW)	DS 439 DIVERSITY	DIVERSE kW
FLOW RATE (kg/s)	Ø x Pa / m	



DETAIL "A"



DETAIL "B"



LINKED MODEL SCHEDULE

MAXIMUM INSTANTANEOUS LOAD
1 BED - 44kW DHWS + 2.3kW HTG - 46.3kW (50kW UNITS) 25Ø 320 Pa/m
2 BED - 50kW DHWS + 3.4kW HTG - 53.4kW (55kW UNITS) 25Ø 400 Pa/m
3 BED - 75kW DHWS + 4.9kW HTG - 80.0kW (80kW UNITS) 32Ø 200 Pa/m
Δt @ 25°C

REFERENCE DOCUMENTS
• TGA SPEC-MP-TGA-XX-XX-SP-M-59-0001 DATED 14.01.20. THIS DOCUMENT INCLUDES APPENDIX A - CAMDEN HEAT NETWORK DESIGN SUPPLEMENT J1.3 DATED NOV 2016.
• TGA DISTRICT HEATING SCHEMATIC DATED 18.12.19.
• TGA ENERGY STRATEGY FINAL ISSUE DATED 21.02.20
• RIDGE SIZING DIVERSITY DASED ON DANISH STANDARD DS439

WIP	S0	INITIAL STATUS OR WORK IN PROGRESS
SHARED	S1	ISSUED FOR CO-ORDINATION
	S2	ISSUED FOR INFORMATION
	S3	ISSUED FOR INTERNAL REVIEW AND COMMENT
	S4	ISSUED FOR STAGE APPROVAL
	S5	N/A
	S6	ISSUED FOR PIM AUTHORISATION
	S7	ISSUED FOR AIM AUTHORISATION
	D1	ISSUED FOR COSTING
	D2	ISSUED FOR TENDER
	D3	ISSUED FOR CONTRACTOR DESIGN
	D4	ISSUED FOR MANUFACTURE/PROCUREMENT
PUBLISHED	A1, A2, etc*	ACCEPTED AS STAGE COMPLETE
	B1, B2, etc*	PARTIALLY SIGNED OFF
	CR	AS CONSTRUCTION RECORD

* INTEGER INDICATES RIBA STAGE COMPLETION

DRAWING STAGE DEFINITIONS (BSRIA BG6/2014)

STAGE 2	CONCEPT DRAWING
STAGE 3	DEVELOPED DESIGN DRAWING
STAGE 4A	TECHNICAL DESIGN DRAWING
STAGE 4B	COORDINATED WORKING DRAWING
STAGE 4C	COORDINATED WORKING DRAWING (SPECIALIST INPUT)
STAGE 5	INSTALLATION DRAWING/RECORD DRAWING

STATUS	REV	DATE	DESCRIPTION	DSG | DRW | CHK | APP
S3	P01	01/04/2020	Issued for Review & Comment	CR | IJB | RJ | CR

ALL REVISIONS

MAIN CONTRACTOR

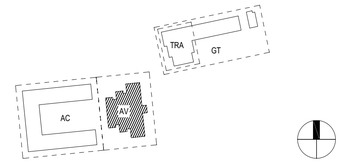
BOUYGUES UK

Bouygues UK
Becket House
1 Lambeth Palace Rd
Lambeth, London SE1 7EU
Tel: 020 7401 0020

CLIENT LOGO

Camden

KEY PLAN



ORIGINATOR MPR01

RIDGE
PROPERTY & CONSTRUCTION CONSULTANTS

3 VALENTINE PLACE
LONDON, SE1 8QH
TEL: 020 7593 3400
WWW.RIDGE.CO.UK

PROJECT NAME

Maitland Park Redevelopment

DRAWING TITLE

ASPEN VILLAS
HEATING SCHEMATIC
SHEET 2 OF 2

SCALE @ A1	MODEL FILE NAME - REVISION	
N.T.S.		
FIRST ISSUE DATE	PROJECT STAGE	STATUS CODE
01/04/2020	Stage 4a	S3 - Issued for Review & Comment

PROJECT	ORIGINATOR	VOLUME	LEVEL	TYPE	ROLE	NUMBER	REV
MPR	RDG	AV	ZZ	SM	J	001713	P01