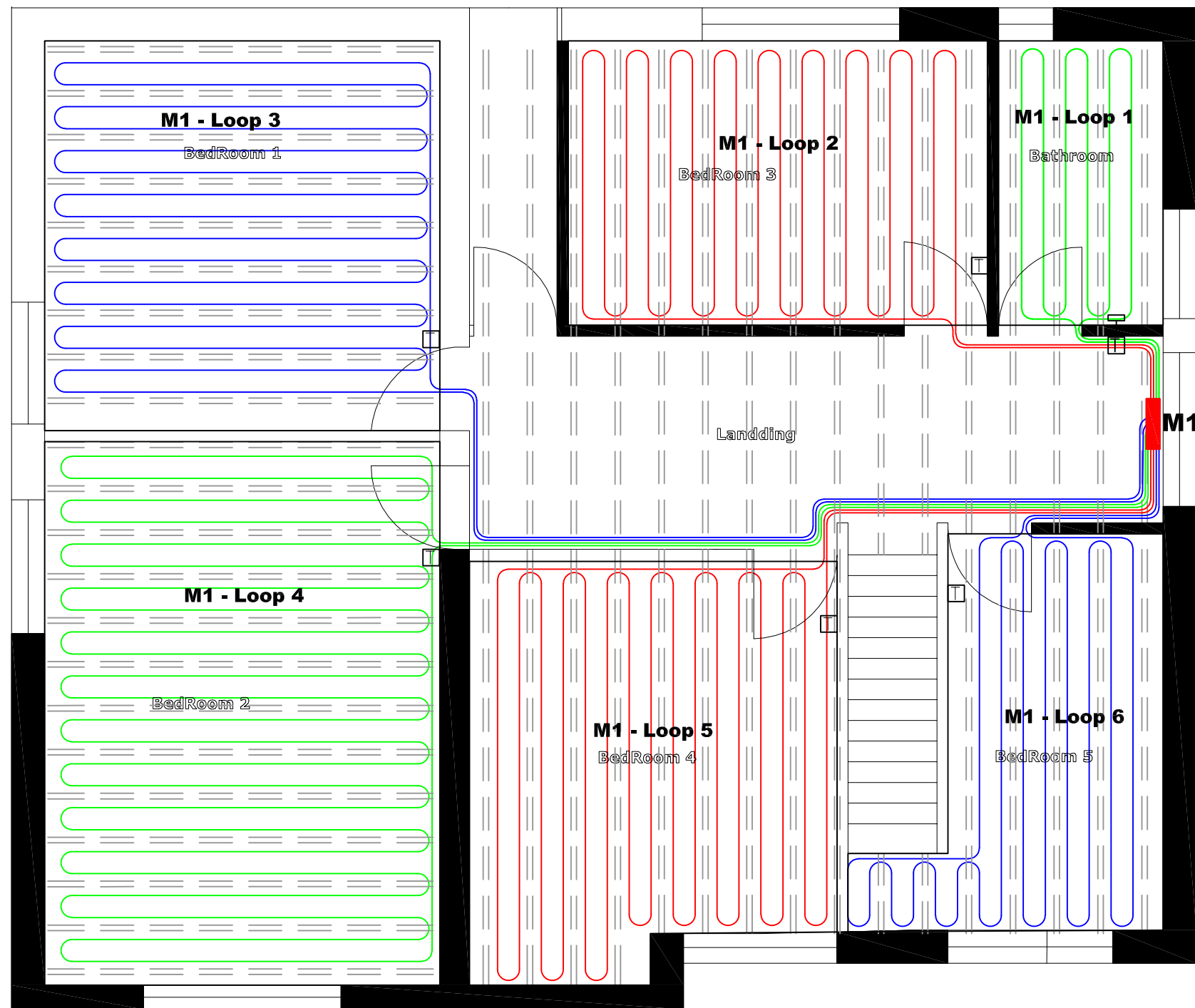


MANIFOLD 1	Total Output (w)	3979	Flow temp °C	55
	Total Tube Length (m)	383	Return temp °C	45
	Max Head Loss (kPa)	13.5	Δt °C	10
	Total Water Volume (ltr)	43.8	Pipe diameter (mm)	16
	Total Flow Rate (l/m)	6.3	Total Flow Rate (kg/s)	0.104

Port	Room / Area	Pipe Spacing (mm)	Output (w)	Tube Length (m)	Flow Rate (l/m)	Head Loss (kPa)
1	Bathroom	200	300	23	0.5	1.8
2	Bedroom 3	200	604	58	0.9	3.3
3	Bedroom 1	200	781	81	1.2	6.6
4	Bedroom 2	200	1086	107	1.7	13.5
5	Bedroom 4	200	738	71	1.2	5.5
6	Bedroom 5	200	470	43	0.7	2.5



Underfloor Heating Outputs										
Manifold	Room	Room Area (m²)	UFH Area (m²)	Room Design Temperature (°C)	Flow / Return Temperature (°C)	Floor Covering	Floor Covering Resistance (m²K/W)	Pipe Spacing (mm)	Design Output (w)	Floor Temp(°C)
1	Bedroom 1	12.8	12.8	18	55 / 45	Carpet	0.15	200	781	23.6
	Bedroom 2	17.8	17.8	18	55 / 45	Carpet	0.15	200	1086	23.6
	Bedroom 4	12.1	12.1	18	55 / 45	Carpet	0.15	200	738	23.6
	Bedroom 5	7.7	7.7	18	55 / 45	Carpet	0.15	200	470	23.6
	Bathroom	3.9	3.9	22	55 / 45	Ceramic	0.00	200	300	29.1
	Bedroom 3	9.9	9.9	18	55 / 45	Carpet	0.15	200	604	23.6
TOTAL		64.2	64.2						3979	

Thermostat locations are for illustration purposes only and final locations should be confirmed on site.

UFH DIRECT

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Project :
2126190

Drawing Title
Underfloor Heating Layout
First Floor

Drawn: SR

Checked: JCDate: 28/01/2021

Scale: 1:50 @ A3Rev: --

DRAWING No. :2126190