Notes:

- Control system Honeywell EVOHOME.
- Spare Connection provided for future extension.
- Unvented 300L cylinder safety devices and EXP vessel not shown.
- System designed to take 8kW Heat Pump in the future when we extend the house.
- T7 & T8 are floor sensors for Commisioning / Test only.

A.A.V = Automatic Air Vent
Imm = Immersion
DCW = Domestic Cold Water
DHW = Domestic Hot Water
P&T = Pressure and Temperature
PRV = Pressure Relief Valve
GSHP = Ground Source Heat Pump
UFH = Under Floor Heating

- T1 STAT = N.O, Set 40°C.
- T2 STAT = N.C, Set 75°C.
- T3 STAT = N.C, Set 45°C.
- T4 STAT = N.C, Set 70°C.
- T6 STAT = N.C, Set 35°C (match set point of GSHP).
- T9 STAT = N.C, Set 65°C.

Stove control

V1 = N.O. MOV

If (T1 > 40°C & T4 < 70°C)
Pump P1 = ON, V1 = CLOSES;

If (T2 > 75°C)
V1 = OPEN;

Heating Control

EVOHOME controls the manifolds from wireless room stats.

The ESBE Mixer valve controls the UFH Flow to 35°C via its T5 sensor.

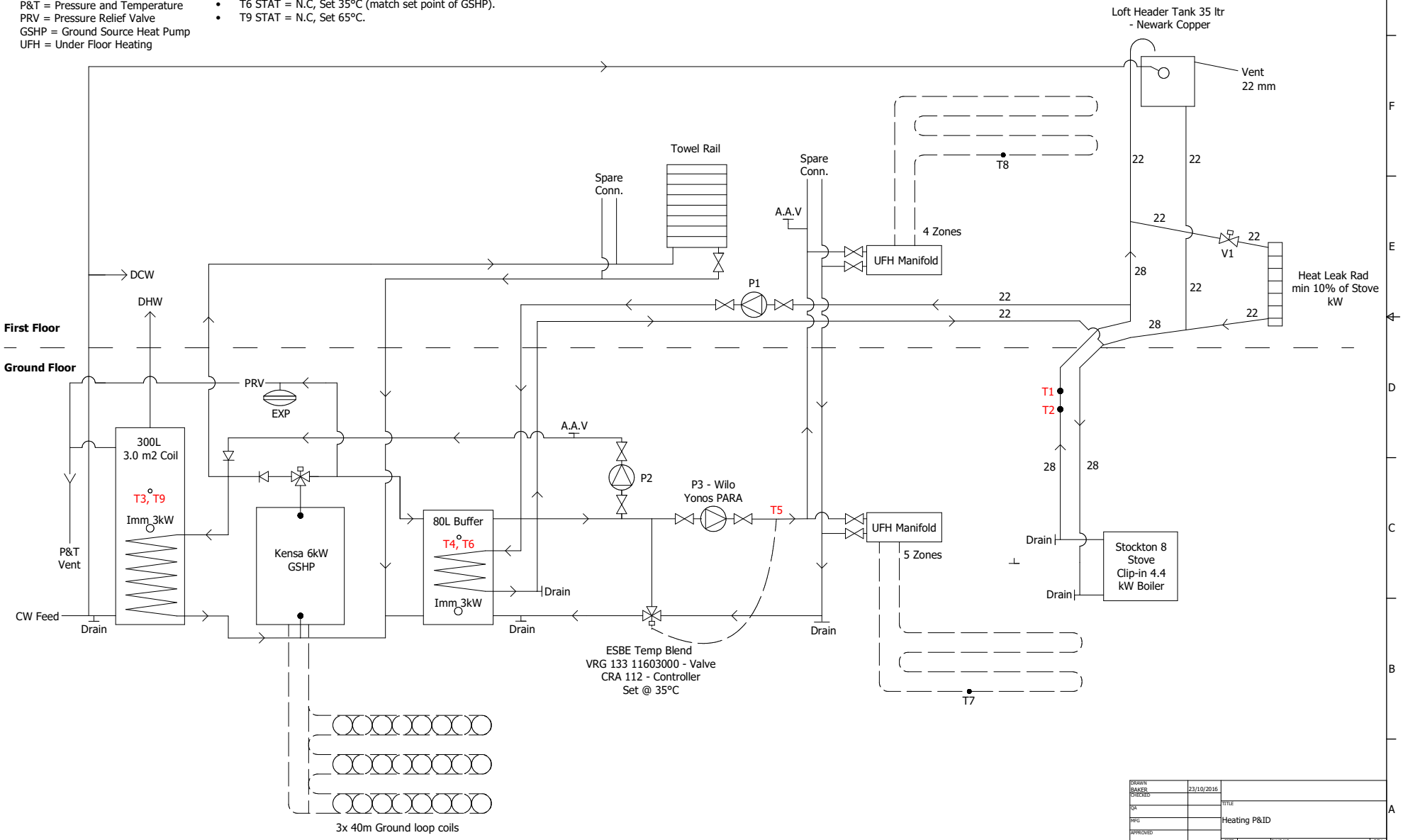
When demand from UFH is called,
P3 (UFH Pump) = ON.
If (T6 < 35°C) GSHP = ON;

DHW Control

Immersion, purge to 65°C once per week.

If (T3 < 45°C) *And DHW timer is calling
Then If (T4< 70°C) GSHP = ON;

If (T4 > 70°C) *At any time
Then If (T9 < 65°C) P2 = ON; *to transfer stove heat to DHW



DRAWN BAKER	23/10/2016		
CHECKED			
QA		TITLE	Heating P&ID
MFG			
APPROVED		SIZE E	DWG NO Heating Schematic MASTER r2 REV
		SCALE	SHEET 1 OF 1