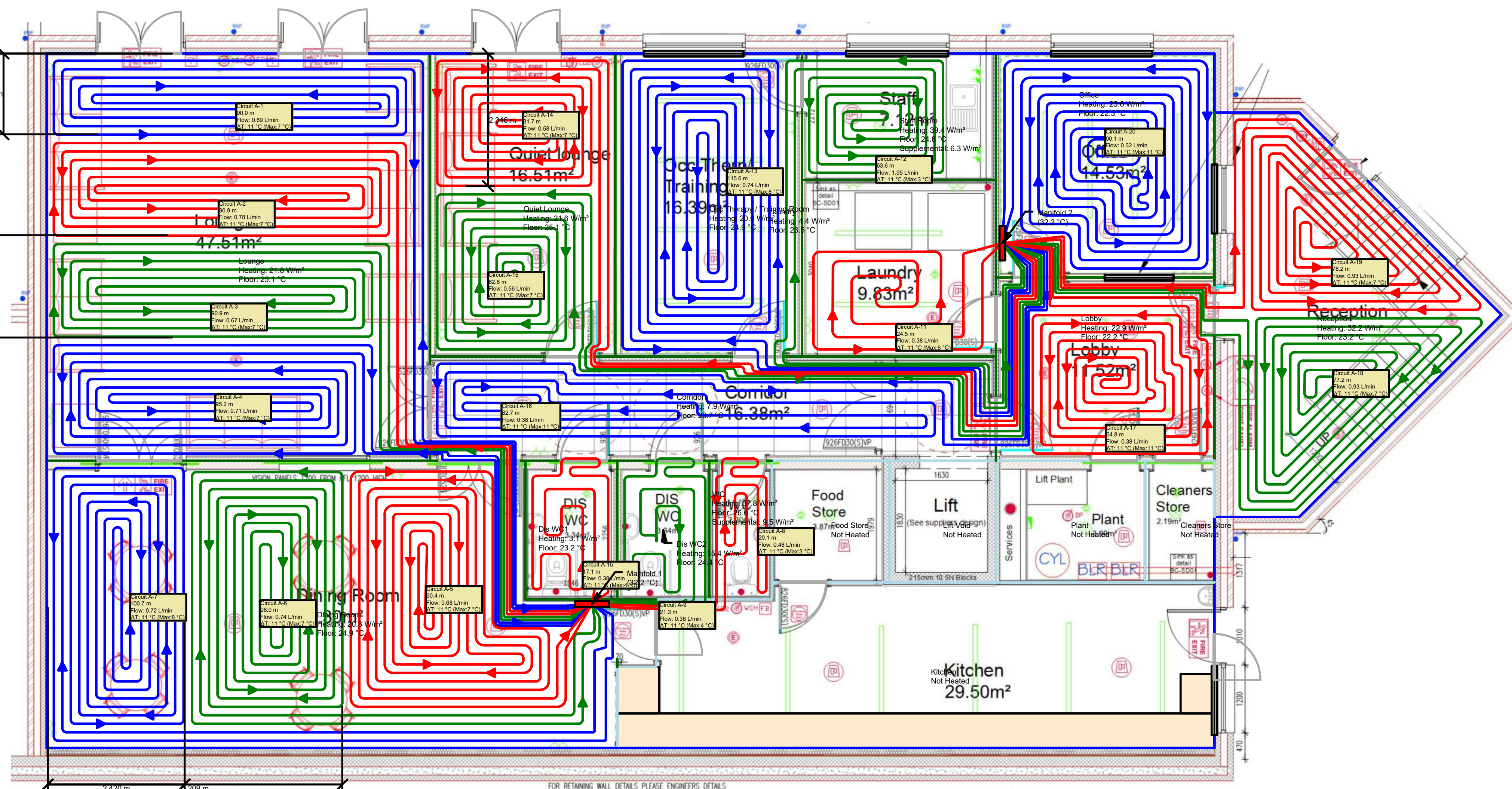




DISCLAIMER:
 Note: Details of the tubing bend radius have been simplified for clarity. Consult tubing manufacturer for specific bend radius recommendations.

Circuit Information					
Number	Length (m)	Manifold	Flow (L/min)	Headloss (kPa)	Total Load (W)
A-1	90.0	Manifold 1	0.69	2.0	321
A-2	96.9	Manifold 1	0.78	2.6	359
A-3	90.9	Manifold 1	0.67	1.9	312
A-4	95.2	Manifold 1	0.71	2.2	331
A-5	90.4	Manifold 1	0.68	1.9	353
A-6	98.0	Manifold 1	0.74	2.4	382
A-7	100.7	Manifold 1	0.72	2.4	376
A-8	20.1	Manifold 1	0.48	0.2	89
A-9	21.3	Manifold 1	0.38	0.2	74
A-11	24.5	Manifold 2	0.38	0.2	76
A-12	63.6	Manifold 2	1.95	8.5	332
A-13	115.6	Manifold 2	0.74	2.8	388
A-14	81.7	Manifold 2	0.58	1.3	250
A-15	17.1	Manifold 1	0.38	0.2	27
A-15	82.8	Manifold 2	0.56	1.3	246
A-16	82.7	Manifold 2	0.38	0.9	181
A-17	64.8	Manifold 2	0.38	0.7	256
A-18	77.2	Manifold 2	0.93	2.8	426
A-19	78.2	Manifold 2	0.93	2.9	431
A-20	90.1	Manifold 2	0.52	1.3	385

Rooms			
Name	Area (m ²)	Zone	Total Load (W)
Cleaners Store	2.3	Zone 101	0
Corridor	17.2	Zone 101	216
Dining Room	46.5	Zone 101	1,168
Dis WC1	3.6	Zone 101	27
Dis WC2	3.6	Zone 101	74
Food Store	4.0	Zone 101	0
Kitchen	27.9	Zone 101	0
Laundry	10.1	Zone 101	76
Lift Void	3.7	Zone 101	0
Lobby	11.8	Zone 101	325
Lounge	47.4	Zone 101	1,268
Occ Therapy / Training Room	16.8	Zone 101	417
Office	14.5	Zone 101	404
Plant	5.2	Zone 101	0
Quiet Lounge	16.7	Zone 101	443
Reception	22.5	Zone 101	827
Staff Room	7.1	Zone 101	312
WC	2.4	Zone 101	105



Manifolds					
Name	# Circuits	Supply Temp (°C)	Total Flow (L/min)	Headloss (kPa)	Total Load (W)
Manifold 1	10	32	6.22	5.6	2,624
Manifold 2	10	32	7.34	11.5	2,970

PROJECT:
Broomhill CC
 CUSTOMER:

PROJECT NO.:
010315-1

SCALE:
1:50

DRAWING NAME:
P1 (Ground Floor)

DRAWN BY:
Antony Harper

DATE:
3/1/2015

REVISIONS

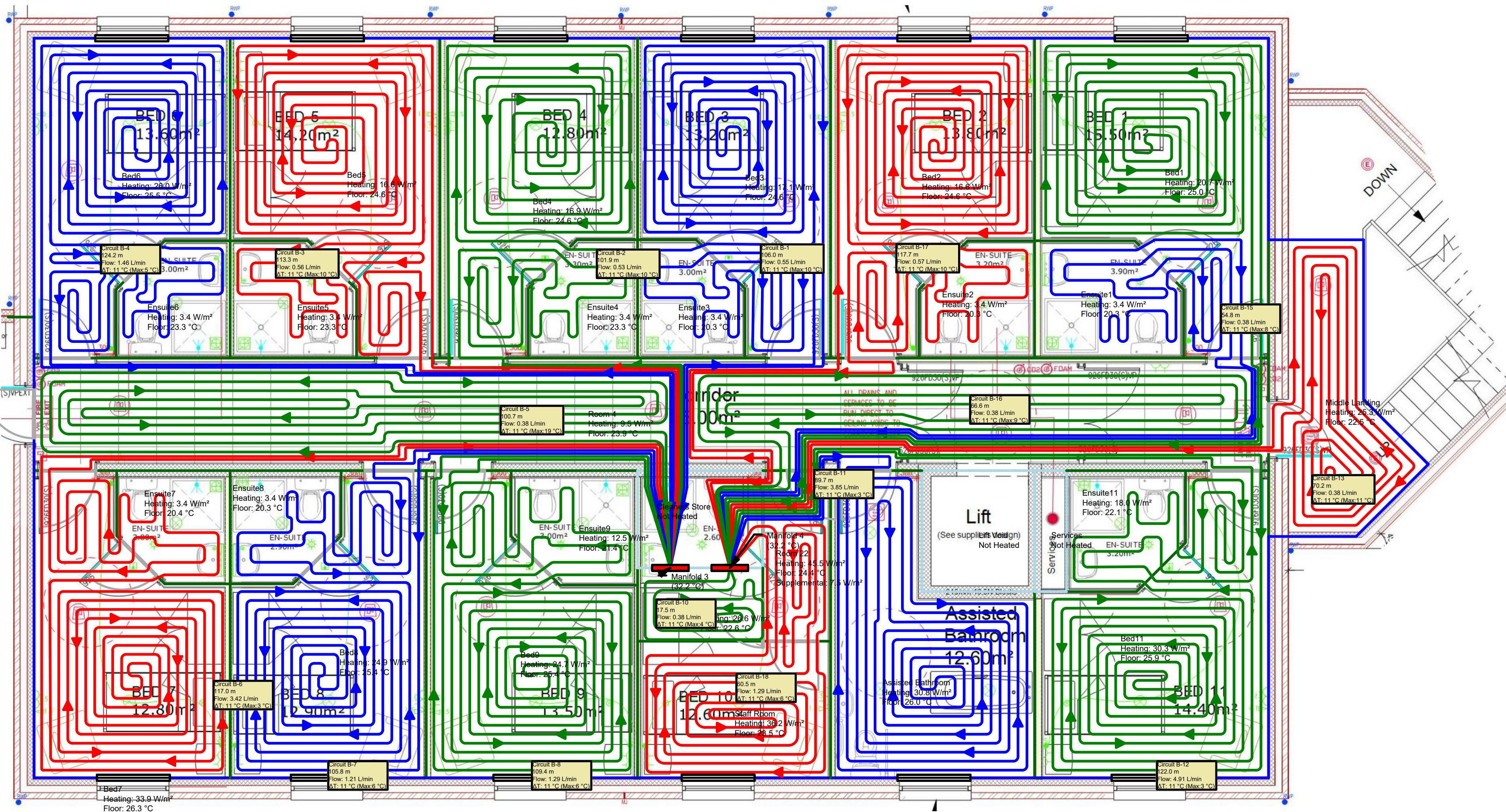
No	Desc	Date



DISCLAIMER:
 Note: Details of the tubing bend radius have been simplified for clarity. Consult tubing manufacturer for specific bend radius recommendations.

Circuit Information					
Number	Length (m)	Manifold	Flow (L/min)	Headloss (kPa)	Total Load (W)
B-1	106.0	Manifold 3	0.55	1.6	321
B-2	101.9	Manifold 3	0.53	1.5	334
B-3	113.3	Manifold 3	0.56	1.8	351
B-4	124.2	Manifold 3	1.46	10.0	480
B-5	100.7	Manifold 3	0.38	1.2	186
B-6	117.0	Manifold 3	3.42	41.6	541
B-7	105.8	Manifold 3	1.21	6.2	427
B-8	109.4	Manifold 3	1.29	7.1	488
B-10	17.5	Manifold 4	0.38	0.2	80
B-11	89.7	Manifold 4	3.85	39.3	788
B-12	122.0	Manifold 4	4.91	81.8	1,014
B-13	70.2	Manifold 4	0.38	0.7	267
B-14	109.6	Manifold 4	0.70	2.5	380
B-15	54.8	Manifold 4	0.38	0.6	103
B-16	66.6	Manifold 4	0.38	0.7	156
B-17	117.7	Manifold 4	0.57	1.9	341
B-18	60.5	Manifold 4	1.29	4.0	546

Rooms			
Name	Area (m ²)	Zone	Total Load (W)
Assisted Bathroom	12.8	Zone 201	767
Bed1	15.4	Zone 201	331
Bed11	14.4	Zone 201	855
Bed2	13.9	Zone 201	238
Bed3	13.2	Zone 201	232
Bed4	13.5	Zone 201	235
Bed5	14.1	Zone 201	246
Bed6	13.3	Zone 201	351
Bed7	12.7	Zone 201	432
Bed8	12.8	Zone 201	319
Bed9	13.6	Zone 201	336
Cleaners Store	3.0	Zone 201	0
Ensuite1	4.1	Zone 201	16
Ensuite11	3.3	Zone 201	129
Ensuite2	3.1	Zone 201	11
Ensuite3	2.9	Zone 201	10
Ensuite4	2.9	Zone 201	10
Ensuite5	3.4	Zone 201	12
Ensuite6	3.0	Zone 201	10
Ensuite7	2.9	Zone 201	10
Ensuite8	2.8	Zone 201	10
Ensuite9	3.3	Zone 201	43
Lift Void	3.4	Zone 201	0
Middle Landing	8.3	Zone 201	214
Room 22	2.8	Zone 201	177
Room 4	36.5	Zone 201	347
Services	0.8	Zone 201	0
Staff Room	6.8	Zone 201	433
WC	2.2	Zone 201	72



Manifolds						
Name	ManifoldType	# Circuits	SupplyTemp (°C)	TotalFlow (L/min)	Headloss (kPa)	TotalLoad (W)
Manifold 3	Stainless Steel	8	32	9.40	44.6	3,129
Manifold 4	Stainless Steel	9	32	12.84	84.8	3,675

PROJECT:
Broomhill CC
 CUSTOMER:

PROJECT NO.:
010315-1

SCALE:
1:50

DRAWING NAME:
P2 (First Floor)

DRAWN BY:
Antony Harper
Created Using LoopCAD 2015 15.0.0.180 (7/29/2016)

DATE:
3/1/2015

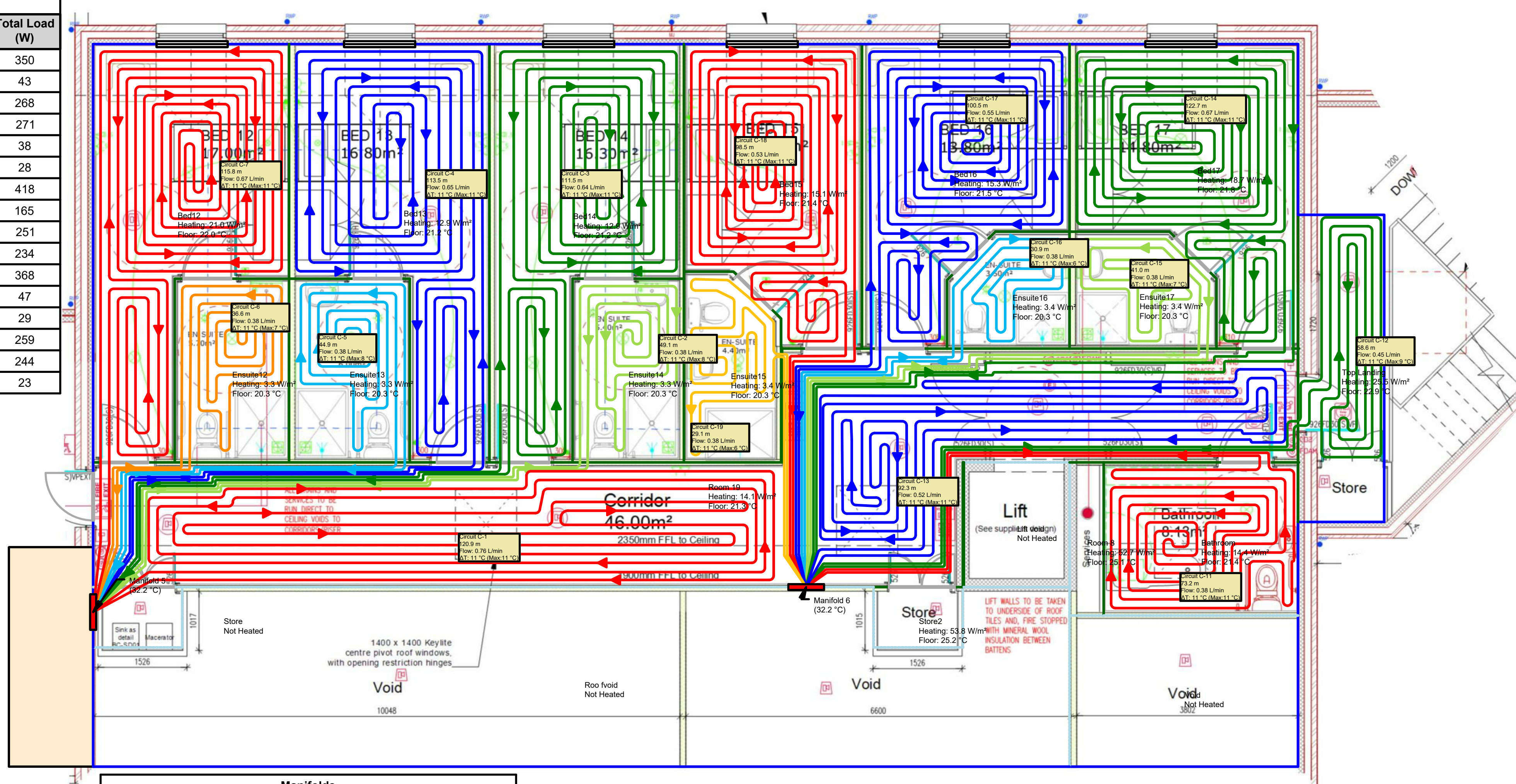
REVISIONS		
No	Desc	Date



DISCLAIMER:
 Note: Details of the tubing bend radius have been simplified for clarity. Consult tubing manufacturer for specific bend radius recommendations.

Circuit Information					
Number	Length (m)	Manifold	Flow (L/min)	Headloss (kPa)	Total Load (W)
C-1	120.9	Manifold 5	0.76	3.2	350
C-2	49.1	Manifold 5	0.38	0.5	43
C-3	111.5	Manifold 5	0.64	2.2	268
C-4	113.5	Manifold 5	0.65	2.3	271
C-5	44.9	Manifold 5	0.38	0.5	38
C-6	36.6	Manifold 5	0.38	0.4	28
C-7	115.8	Manifold 5	0.67	2.4	418
C-11	73.2	Manifold 6	0.38	0.8	165
C-12	58.6	Manifold 6	0.45	0.7	251
C-13	92.3	Manifold 6	0.52	1.4	234
C-14	122.7	Manifold 6	0.67	2.6	368
C-15	41.0	Manifold 6	0.38	0.4	47
C-16	30.9	Manifold 6	0.38	0.3	29
C-17	100.5	Manifold 6	0.55	1.6	259
C-18	98.5	Manifold 6	0.53	1.5	244
C-19	29.1	Manifold 6	0.38	0.3	23

Rooms			
Name	Area (m²)	Zone	Total Load (W)
Bathroom	8.1	Zone 301	120
Bed12	16.8	Zone 301	353
Bed13	17.0	Zone 301	219
Bed14	16.8	Zone 301	217
Bed15	13.2	Zone 301	200
Bed16	13.8	Zone 301	211
Bed17	14.8	Zone 301	280
Ensuite12	5.6	Zone 301	19
Ensuite13	6.0	Zone 301	20
Ensuite14	5.5	Zone 301	18
Ensuite15	4.6	Zone 301	16
Ensuite16	3.5	Zone 301	12
Ensuite17	4.3	Zone 301	14
Lift void	3.5	Zone 301	0
Roo fvoid	46.1	Zone 301	0
Room 19	46.5	Zone 301	738
Room 8	1.2	Zone 301	93
Store	1.3	Zone 301	0
Store2	1.3	Zone 301	71
Top Landing	7.1	Zone 301	196
Void	9.5	Zone 301	0



Manifolds					
Name	# Circuits	SupplyTemp (°C)	TotalFlow (L/min)	Headloss (kPa)	TotalLoad (W)
Manifold 5	7	32	3.86	6.2	1,416
Manifold 6	9	32	4.22	5.6	1,620

PROJECT:
Broomhill CC
 CUSTOMER:

PROJECT NO.:
010315-1

SCALE:
1:50

DRAWING NAME:
P3 (Second Floor)

DRAWN BY:
Antony Harper
Created Using LoopCAD 2015 15.0.0180 (7/29/2016)

DATE:
3/1/2015

REVISIONS

No	Desc	Date