

DH FLOW DN250 (OD 450) SERIES 2 - LONGITUDINAL SECTION - SCALE: H 1:500, V 1:100. DATUM: 25.000

DISTRICT HEATING AND COOLING

NOTES

- All dimensions are in mm, unless otherwise stated.
- Contractors to take safety measures to avoid any damages to existing or other services.
Design parameters are detailed within the Woking DHCN Project Green Stress Calculation Report, Doc Ref. 200004-FVB-ENG-STR-XXX-002.
- Installed pipework is Power-Pipe Series 2, conforming to the following detailed specifications:
- Norms and Standards
Fundamental for Power-Pipe's operations are the European Standards for preinsulated pipes and fittings.
These are:
- District heating systems - Prefabricated buried pipes with solid bond between the insulation and the service pipe for the distribution of hot water.
 - EN253:2009
Fitting assemblies of straight steel service pipes, polyurethane thermal insulation (PUR) and outer casing of polyethylene (PE).
 - EN48:2009
Fitting assemblies of steel service pipes, polyurethane thermal insulation (PUR) and outer casing of polyethylene (PE).
 - EN488:2009
Steel valve assembly for steel service pipes, polyurethane thermal insulation (PUR) and outer casing of polyethylene (PE).
 - EN489:2009
Joint assembly for steel service pipes, polyurethane thermal insulation (PUR) and outer casing of polyethylene (PE).
 - EN1394:2009
District heating system - Design and installation of preinsulated bonded pipe systems for district heating with impact proof insulation between service pipe and outer casing.
 - EN144:2009
District heating system - Preinsulated bonded pipe systems for directly buried hot water networks - Surveillance systems.
 - EN15698-1:2009
District heating system - Preinsulated bonded twin pipe systems for directly buried hot water networks. Twin pipe assembly of steel service pipe, polyurethane thermal insulation (PUR) and outer casing of polyethylene (PE).

CHAMBERS
For chamber information and co-ordinates refer to Document P147 Thameway Woking (Project Green) - Chamber Schedule

- Legend:
- DH FLOW
 - DH RETURN
 - DC FLOW
 - DC RETURN
 - Comms Route
 - HV Route

REV	NOTE	DESCRIPTION	DATE	APPR.
13	AS BUILT - ENETEC FINAL COMMENTS		2021-02-10	C.H.
12	AS BUILT - Chambers, Comms & HV Route Updated		2021-01-29	C.H.
11	AS BUILT - Comms & HV Ducts Added		2020-11-12	C.H.
10	AS BUILT - Chambers Added		2020-10-08	C.H.
09	AS BUILT		2020-10-06	C.H.
08	AS BUILT		2020-10-02	C.H.
07	DESIGN UPDATE		2020-08-25	S.B.
06	DESIGN UPDATE		2020-07-28	S.B.
05	DESIGN UPDATE		2020-07-09	S.B.
04	DESIGN UPDATE		2020-05-29	S.B.
03	DESIGN UPDATE		2020-05-25	S.B.
02	DESIGN UPDATE		2020-04-06	S.B.

AS-BUILT

CLIENT

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PROJECT NO	DRAWN BY	DESIGNED BY
200004	S.BORSI	S.BORSI
DATE	APPROVED BY	
2020-03-15	PETER RUSSETT	

DISTRICT HEATING LAYOUT & PROFILES - FORGE END NORTH

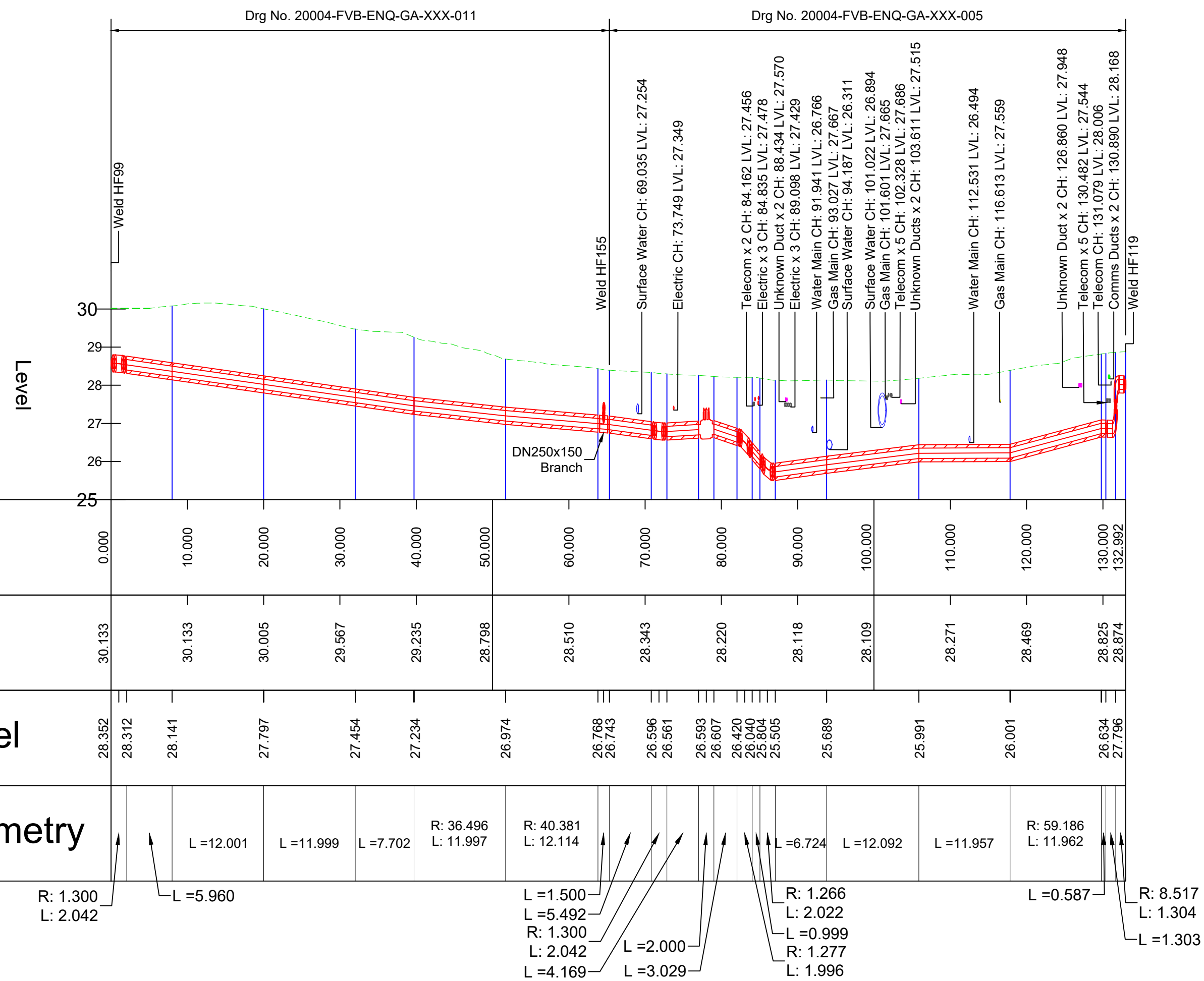
SCALE	DRAWING NO	REV
A1=1:100 A3=1:200	200004-FVB-ENG-GA-XXX-05	13

DH Flow			
Weld Number	Easting	Northing	Crown of Pipe
HF 119	500268.571	158747.297	28.238
HF 121	500268.051	158746.407	27.226
HF 123	500268.067	158746.250	27.081
HF 125	500267.043	158744.526	27.092
HF Mid Curve	500263.584	158739.502	26.904
HF 127	500259.703	158735.106	26.451
HF 135	500251.440	158726.464	26.441
HF 137	500243.066	158717.741	26.139
HF 139	500238.495	158712.828	26.003
HF 141	500238.421	158711.052	26.254
HF 143	500239.115	158710.367	26.490
HF 145	500239.121	158708.551	26.870
HF 147	500236.765	158706.271	27.015
HF 149	500235.692	158705.247	27.043
HF 151	500232.446	158702.258	27.039
HF 153	500232.422	158700.422	27.046
HF 155	500236.245	158696.574	27.205
HF 159&161	500237.345	158695.460	27.218

DH Return			
Weld Number	Easting	Northing	Crown of Pipe
HR 120	500268.917	158746.787	28.221
HR 122	500268.449	158745.820	27.309
HR 124	500268.415	158745.629	27.153
HR 126A	500267.384	158743.913	27.119
HR Mid Curve	500264.111	158738.940	26.867
HR 134	500260.034	158734.418	26.517
HR 136	500251.778	158725.897	26.416
HR 138	500243.426	158717.161	26.151
HR 140	500239.234	158712.706	26.009
HR 142	500239.342	158711.069	26.360
HR 144	500239.996	158710.422	26.567
HR 146	500240.000	158708.611	26.900
HR 148	500237.185	158705.872	26.979
HR 150	500236.091	158704.859	27.009
HR 152	500233.355	158702.232	26.992
HR 154	500233.351	158700.412	27.031
HR 156	500237.034	158696.772	27.149
HR 158	500237.036	158695.680	27.531

DC Flow			
Weld Number	Easting	Northing	Crown of Pipe
CF 27	500269.725	158745.837	28.161
CF 29	500269.299	158744.869	27.395
CF 31	500268.996	158744.127	27.000
CF 33	500268.472	158743.278	26.956
CF Mid Curve	500265.203	158738.137	26.981
CF 35	500261.224	158733.768	26.763
CF 37	500260.154	158732.702	26.676
CF 39 End of pipe	500259.457	158731.970	26.645

DC Return			
Weld Number	Easting	Northing	Crown of Pipe
CR 26	500269.349	158746.295	28.118
CR 28	500268.904	158745.375	27.325
CR 30	500268.592	158744.623	26.945
CR 32	500268.007	158743.696	26.887
CR Mid Curve	500264.616	158738.472	26.881
CR 34	500260.722	158734.203	26.76
CR 36	500259.657	158733.147	26.712
CR 38 End of pipe	500259.026	158732.511	26.687



Chainage

Existing Levels

Pipe Invert Level

Horizontal Geometry

R: 1.300
L: 2.042

L=12.001
L=11.999
L=7.702
R: 36.496
L: 11.997

L=1.500
L=5.492
R: 1.300
L: 2.042
L=4.169
L=3.029

L=6.724
L=12.092
L=11.957

R: 1.266
L: 2.022
L=0.999
L: 1.277
L: 1.996

L=0.587
R: 8.517
L: 1.304