

PROJECT NOTES

Scope:
UK Power Solutions are to provide 1 No. Single LV metered supplies to a new housing development.

Supply Capacity & Loads:
The calculated maximum demand for the development is 232kVA and has been derived from the following individual demands
77 Residential Properties - 1 Phase @ 1.9 kVA Day 0.5 kVA Night.
1 School supplies - 3 Phase @ 107 kVA
2 Landlord supplies - 1No. 100A, 1 Phase
- 1No. 100A, 3 Phase

2x LV points of connection (PoC) @ 252kVA
PoC1 Location - Adjacent site on Debdon Road
PoC2 Location - At existing substation on St. Johns Close

All calculations have been carried out using the Winibus software and following the parameters and specification laid down within the E.S Pipelines G81.
The service cables have been calculated using a maximum demand of 12kW.

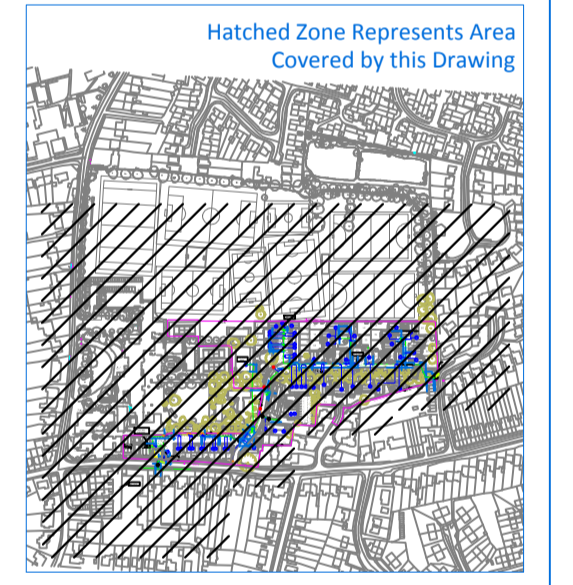
Supply Exit Points & Metering:
The supply exit points for housing will be the outgoing terminals of the 100A Single Phase Cut-outs and they will be whole current metered.

Disturbing Loads:
The design has been completed as specified in DWG2007.

LV Point of Connection:
The 2 No. LV point of connection shall be made at the outgoing terminals of the UKPN owned LV link box.
UKPN Ref: 400961505
Grid Reference: PoC1 TL5337NE
PoC2 TL5337SE

LV cables:
185mm² 95mm² 3 core Al waveform cable (CNE) shall be utilised to install the mains throughout the LV distribution.
All LV Cables will be laid direct unless otherwise stated on the Site Layout and Cable Routes - (DWG2007).
Cables shall be installed in accordance with the relevant cross section detail.

Project Notes



Site Layout and Cable Routes

11	Joints and dims added to Plots 62-69	28/07/14	CH
10	Dimensions added along plots 70-73	12/04/14	CH
9	Dimensions added along plots 60-61	04/12/13	CH
8	Dimensions added along plots 53-59	21/10/13	GJ
7	Dimensions added to plots 30-40 as per email instruction	24/09/13	CH
6	Feeder pillar added; dimensions added to plots S3 and S4	14/06/13	SB
5	Street lights added	08.03.13	CH
4	LV cables amended	19/12/12	JR
REV	AMENDMENT	DATE	BY



River View House
Bonds Mill Estate
Stonehouse
Gloucestershire
GL10 3RF

Client	Hill Partnership				
Project	Friends School				
Title	As Laid Plan				
Planning Engineer	Stephen Bayliss	Contact No.	07772684044		
Project Manager	Tom Shanahan	Contact No.	08452 577 105		
Drawn By	YZ	Checked By	AW	Date	20/03/12
Scale	As Shown	Sheet No.	1/1	Original Size	A0
Drawing No.	UKP292 - DWG900	Rev.	11		
Drawing Status	For information				