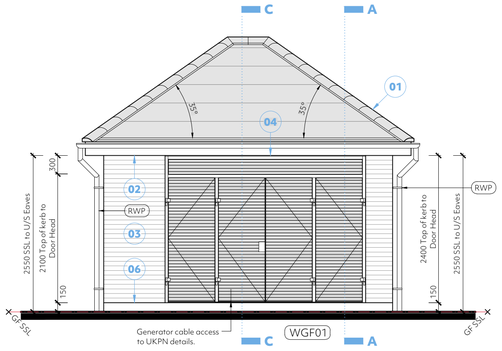
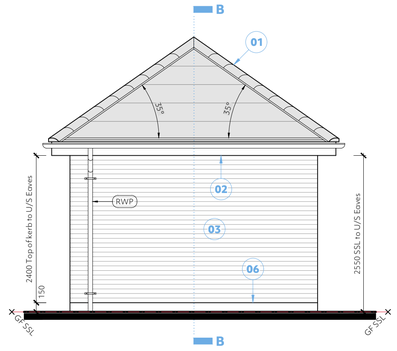


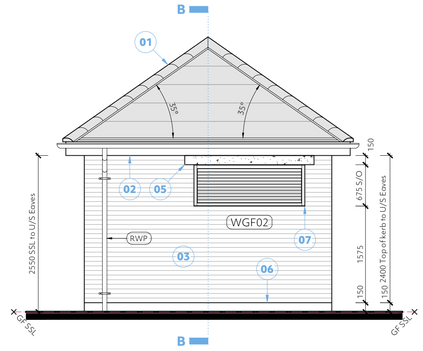
UKPN Substation Front Elevation

Scale 1:50



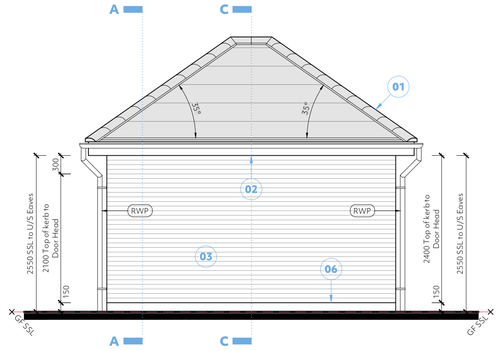
UKPN Substation Side Elevation

Scale 1:50



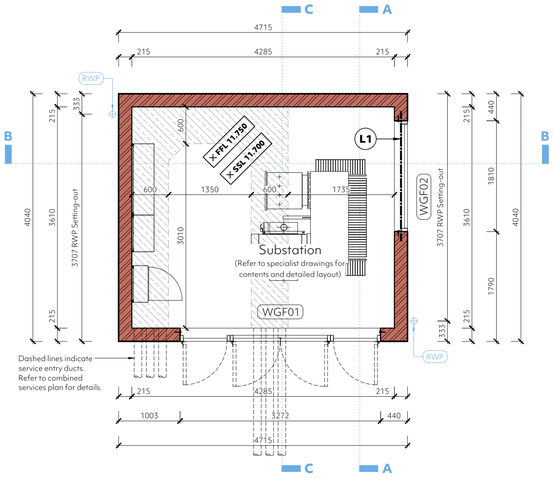
UKPN Substation Side Elevation

Scale 1:50



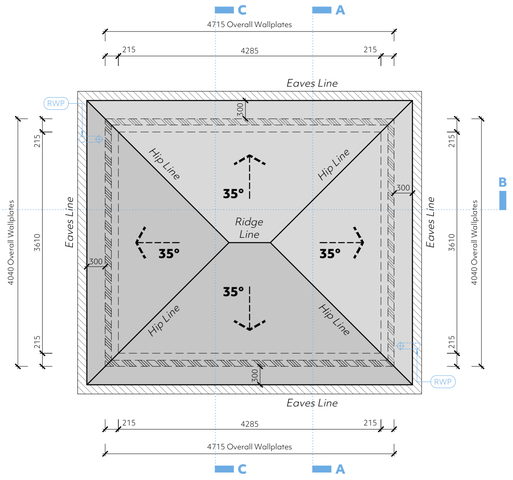
UKPN Substation Rear Elevation

Scale 1:50



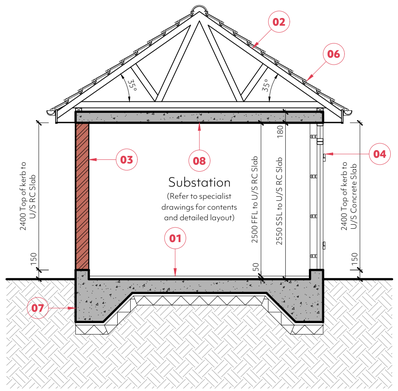
UKPN Substation Floor Plan

Scale 1:50



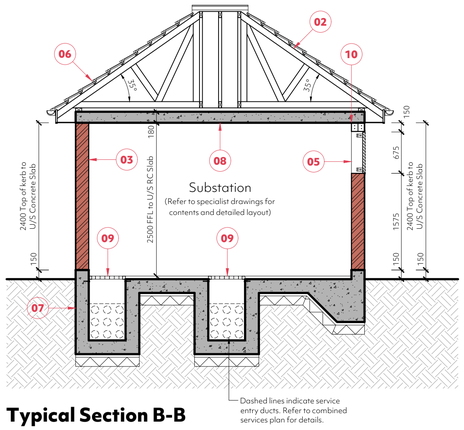
UKPN Substation Roof Plan

Scale 1:50



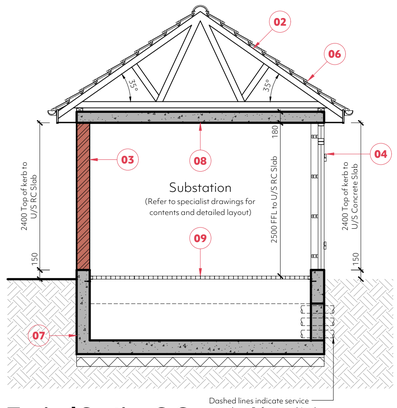
Typical Section A-A

Scale 1:50



Typical Section B-B

Scale 1:50



Typical Section C-C

Scale 1:50

UKPN Substation - External Door & Louvre Schedule:

Window Reference	Location	Structural Opening		Notes...
		W (mm)	H (mm)	
WGF01	Access Door	3272	2400	PPC louvered double door. Door fitted with panic bar. Hasp and staple to external face secured with standard padlock free issued by UKPN.
WGF02	Louvred Panel	1810	675	PPC louvered panel.

General Notes:

- Only UKPN approved doors and vents to be fitted.
- Provide mastic pointing to frame surrounds externally; colour to match door frames.
- Inlet and outlet minimum free air requirement 0.75m² each. Total louvered area 2m², assuming 50% efficiency.
- Approved louver vents are to be made of mild steel fully welded into an angle frame secured internally by suitable anchor fixings into the brickwork.

General Legend (Elevations):

- Indicates areas of facing brickwork to material legend.
- WFF09 — Indicates window & door references. For external door and window schedule.
- RWP — Indicates rainwater pipe.
- Indicates structural slab level (top of reinforced concrete floor slab).
- 09 — Indicates material reference. Please refer to materials legend.
- Indicates roof tiles. Please refer to the materials schedule.

Roof Legend:

- Denotes 68mm diameter rainwater pipe offsetting from gutter.
- Indicates 50mm high x 100mm wide softwood timber wall plate tied down using galvanised mild steel straps at maximum 2m centres plugged and screwed to inside face of blockwork inner leaf.
- RWP — Indicates rainwater pipe.
- 125mmØ deep flow UPVC gutters.
- 30° — Indicates fall direction of roof and associated pitch.
- Indicates roof tiles in accordance with the materials schedule.

General Roof Notes:

01. All trusses and general roof design is shown for the purpose of intent only and are subject to specialist roof truss design by appointed manufacturer.
02. The roof truss designer is to produce drawings for review by the architect and Structural Engineer prior to manufacture.
03. Please refer to the elevations for confirmation of all material finishes.
04. For all bracing and strapping of trusses to the structure refer to the truss designer's drawings.
05. Overall wall plate dimensions are to be site measured prior to manufacture of the trusses.

Elevations General Legend:

- 01 — Roof tile as specified within the Bellway Homes materials schedule, on suitable roofing battens as specified by the tile manufacturer, on roofing underlay in accordance with the construction specification.
- 02 — Fascias and soffits in accordance with Bellway Homes materials schedule.
- 03 — Indicates 215mm thick fully bonded brickwork wall formed using frogged flettons laid English bond with neat struck joints.
- 04 — Powder coated aluminium doors by Sunray. Colour RAL TBC.
- 05 — Indicates solid wall lintel as specified by reference or notation.
- 06 — Minimum 150mm high exposed concrete plinth finished with external quality black masonry paint.
- 07 — Powder coated aluminium louvered panels by Sunray. Colour RAL TBC.

Sections General Legend:

- 01 — 50mm topping screed with a minimum compressive strength of 40N/mm² after 28 days. Concrete works finished with a steel float to within +/- 2mm over 2000mm. Earth mesh to be run within screed, please refer to UKPN drawings for further details.
- 02 — Roof trusses to specialist supplier's design.
- 03 — 215mm thick fully bonded brickwork wall formed using frogged flettons laid English bond with neat struck joints.
- 04 — Powder coated aluminium doors by Sunray. Colour RAL TBC.
- 05 — Powder coated aluminium louvered panels by Sunray. Colour RAL TBC.
- 06 — Roof tile as specified within the Bellway Homes materials schedule, on suitable roofing battens as specified by the tile manufacturer, on roofing underlay in accordance with the construction specification.
- 07 — RC slab to Structural Engineer's design and details. Provide 1200 gauge ploythene sheet DPM on 50mm concrete blinding layer on well consolidated layers of hardcore.
- 08 — 180mm thick RC roof slab to Structural Engineer's design and details.
- 09 — Cable trenches with GRP ventilated covers supported on steel angles. Please refer to UKPN cable trench details.
- 10 — Indicates prestressed concrete solid wall lintel by Stressline or similar approved.

Miscellaneous Legend:

- 215mm thick fully bonded brickwork wall formed using frogged flettons laid English bond with neat struck joints.
- Denotes rainwater pipe.
- RWP — Denotes rainwater pipe.
- WGF01 — Indicates external window and door reference. Refer to adjacent schedule for further information.
- Cable trenches with GRP ventilated covers supported on steel angles. Please refer to UKPN cable trench details.
- RC slab to Structural Engineer's design and details. Provide 1200 gauge ploythene sheet DPM on 50mm concrete blinding layer on well consolidated layers of hardcore.
- L1 — Indicates prestressed concrete solid wall lintel by Stressline or similar approved.
- Indicates solid wall lintel as specified by reference or notation.
- FFL — Finished floor level (top of screeded finish).
- SSL — Structural slab level (top of reinforced concrete floor slab).

General Notes:

01. Temporary works designers must ensure that the temporary works design has been approved by Building Control and/or the Structural Engineer where necessary.
02. Please refer to the Civil Engineer's drawings for confirmation of all ground levels.
03. Please refer to the client's material schedule for confirmation of all building products.
04. All vertical dimensions are taken from the SSL (top of reinforced concrete floor slab) of the substation.
05. This drawing has been produced from information provided by Bellway Homes to assist with procurement only. It should not be relied upon for construction purposes. Please refer to UKPN design drawings for full details.
06. Regardless of what is shown on this drawing, the substation is to be built in accordance with UKPN's detailed requirements.
07. Any discrepancies found between information shown on this or any other drawing shall be reported to Bellway Homes Engineer before works commencing. All private electrical works to comply with current iee regulations.
08. All on-site excavation, trenching, and reinstatement by Bellway Homes contractor.
09. Trenches to be backfilled with suitable excavated material.
10. All ducts to be provided with draw cords. Draw cords to be tied to wooden pegs above ground at ends where applicable.
11. All earthing by Bellway Homes contractor, refer to UKPN drawings for details.
12. Lighting and small power by UKPN, refer to UKPN drawings for details.
13. Refer to UKPN drawings for further substation details and specification.
14. Internal finishes:
- Floor to receive 2 coats of grey concrete floor paint.
- Walls and ceiling to receive 2 coats of white emulsion for dust sealing.

Rev	Date	Amendment
C1	09.11.2023	Construction Issue.

Client: Bellway Homes (South London) Ltd.

Project: Barrington Road, Durrington-on-Sea

Drawing: Outbuildings
UKPN Substation

project. architecture

hello@projectarch.co.uk | +44 (0) 1245 922160

Status: Construction

Date: October 2022 | **Scale:** 1:50 @ A1 | **Drawing No:** 22-1065-043

C1

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Z:\Projects\22-1065_Barrington Road, Durrington-on-Sea\Working\22-1065_Refuse & Cycle Stores