

SCHEDULE 1

Article 2 and 4

AUTHORISED DEVELOPMENT

In Epping Forest District Council, London Borough of Enfield, London Borough of Waltham Forest and London Borough of Haringey

UPRATING OF ZBC OVERHEAD ELECTRIC LINE

Work No. 1 — Uprating of the existing ZBC overhead electric line between pylon ZBC2 and pylon ZBC43 from 275 kilovolts (kV) to 400kV including—

- (a) uprating the existing phase conductors, insulators and fittings;
- (b) steel work replacement; and
- (c) replacing existing earthwire.

In Epping Forest District Council

WALTHAM CROSS SUBSTATION

Work No. 2A — Construction and installation of a new transmission pylon 4ZM1R, installation of new phase conductors, insulators, fittings and an earthwire conductor from pylon 4ZM1R to pylon 4ZM2, and installation of new connections from pylon 4ZM1R into the new gas insulated switchgear substation at Waltham Cross.

Work No. 2B — Removal of existing transmission pylon 4ZM1, the phase and earthwire conductors between pylon 4ZM1 and pylon 4ZM2 and the connections between pylon 4ZM1 and the existing Waltham Cross substation.

Work No. 3A — Construction and installation of two new transmission pylons ZBC1A and ZBC1B, installation of new phase conductors, insulators, fittings and an earthwire from pylon ZBC2 to pylon ZBC1B and pylon ZBC1A, and installation of new connections from pylon ZBC1A into the new gas insulated switchgear substation at Waltham Cross.

Work No. 3B — Removal of existing transmission pylon ZBC1, the phase and earthwire conductors between pylon ZBC1 and pylon ZBC2, and the connections from pylon ZBC1 to Waltham Cross substation.

Work No. 4 — Construction of a new gas insulated switchgear substation at Waltham Cross including the following works—

- (a) construction of a gas insulated switchgear building comprising the following—
 - (i) a steel and fibre board clad building;
 - (ii) up to ten bays of gas insulated switchgear;
 - (iii) low voltage mechanical and electrical equipment;
 - (iv) electrical control panels; and
 - (v) gas insulated bus bar tubes to transfer electricity; and
- (b) construction of up to nine ancillary plant modules;
- (c) construction of gas insulated bus bar tubes;
- (d) construction of a welfare block for operations welfare and installation of a new foul cess pit to facilitate the new welfare block;
- (e) construction of an equipment garage;
- (f) construction of up to four landing gantries to a maximum height of 15m for terminal overhead electric line connections into the substation;

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- (g) installation of electrical air insulated switchgear between termination points of substation building and overhead electric line connections to landing gantries;
- (h) installation of troughing and below ground services;
- (i) installation of lamp posts for street lighting and other site furniture;
- (j) part demolition of the existing 275kV substation associated with the 275kV circuits being uprated and removal of two decommissioned cable sealing end compounds;
- (k) dismantling and removal of two existing 275–400kV transformers;
- (l) disconnection of two 400–275kV transformers and relocation of the transformers to an on-site storage location;
- (m) construction of perimeter and internal fencing, signage, secured entrance, CCTV poles, gates, barriers and bollards; and
- (n) construction of a permanent access road up to 4m wide connecting the existing substation to the new gas insulated switchgear building.

Work No. 5 — Establishment of a material holding facility and laydown area with construction related buildings and welfare facilities off Stubbins Hall Lane.

In the London Borough of Enfield

BRIMSDOWN SUBSTATION

Work No. 6 — Works to extend the existing 275–132kV substation at Brimsdown to facilitate the uprating of the 275–400kV overhead electric line including the following—

- (a) earthworks including site levelling, trenches, below ground services and drainage system;
- (b) construction of two 400–132kV transformer bays including foundations;
- (c) installation of air insulated switchgear to facilitate termination of overhead electric line into substation;
- (d) installation of a new diesel generator and concrete foundation as a backup low voltage electricity supply to the substation;
- (e) demolition of two existing 275–132kV transformers, foundations and ancillary equipment; and
- (f) diversion of existing 132kV cable to facilitate new works.

Work No. 7A — Construction of a new bridge over the Small River Lee (Turkey Brook) to accommodate a new access and cable route from the existing Brimsdown substation to the new cable sealing end compounds at pylon ZBC19.

Work No. 7B — Installation of two new cable sealing end compounds at pylon ZBC19, installation of up to six 400kV cables underground from the new compounds to Brimsdown substation over the new bridge constructed as part of Work No. 7A, establishment of laydown area, remodelling of bund and removal of two cable sealing end compounds at pylon ZBC20 and removal of cables between pylon ZBC20 and Brimsdown substation.

Work No. 7C — Remodelling existing bund and works to temporarily divert footpath.

Work No. 7D — Creation of new permanent footpath linking footpath at dismantled railway to Footpath No. 103.

Work No. 7E — Creation of new permanent diversion to Footpath No. 103.

LEE PARK WAY

Work No. 8 — Establishment of a material holding facility and laydown area with construction related buildings and welfare facilities in the car park off Lee Park Way.

In the London Borough of Haringey

TOTTENHAM SUBSTATION

Work No. 9 — Modifications to existing protection and control equipment to facilitate the bypass of Tottenham substation by the newly updated 400kV overhead electricity line.

Work No. 10 — Works to facilitate bypassing of Tottenham substation including the following works—

- (a) removal of existing phase and earthwire conductors from pylon ZBC43 to existing anchor blocks;
- (b) installation of new phase and earthwire conductors to gantries within new northern cable sealing end compound and removal of existing cables connecting ZBC43 to Tottenham substation;
- (c) installation of new cable sealing end compounds at pylons ZBC43 and VC1R;
- (d) the installation of up to twelve 400kV cables predominantly underground from the northern cable sealing end compound at pylon ZBC43 to the southern cable sealing end compound at pylon VC1R; and
- (e) installation of two cable bridges across Pymmes Brook.

Work No. 11 — Installation of a new transmission pylon VC1R, new phase and earthwire conductors, insulators and fittings between VC1R and VC2 and new connections from pylon VC1R to the gantries in the new southern cable sealing end compound.

Work No. 12 — Removal of existing transmission pylon VC1 and phase and earthwire conductors between pylon VC1 and pylon VC2 and removal of connections from between pylon VC1 and the existing Tottenham substation.

Work No. 13 — Establishment of material holding facility and laydown area with construction related buildings and welfare facilities, and in connection with such works further associated development within the Order limits consisting of—

- (a) ramps, means of access, footpaths, bridleways, trackways and pontoons;
- (b) embankment, viaducts, aprons, abutments, shafts, foundations, retaining walls, drainage, wing walls, fencing and culverts;
- (c) works to alter the position of apparatus, including mains, sewers, drains and cables;
- (d) works to alter the course of, or otherwise interfere with a watercourse;
- (e) landscaping and other works to mitigate any adverse effects of the construction, maintenance or operation of the authorised development;
- (f) works for the benefit or protection of land affected by the authorised development;
- (g) works required for the strengthening, improvement, maintenance, or reconstruction of any streets;
- (h) works to alter or remove road furniture;

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- (i) site preparation works, site clearance (including fencing, vegetation removal, demolition of existing structures and the creation of alternative footpaths); earthworks (including soil stripping and storage, site levelling);
- (j) establishment of site construction compounds, temporary vehicle parking, construction fencing, perimeter enclosure, security fencing, construction related buildings, welfare facilities, construction lighting and haulage roads;
- (k) installation of wires, cables, ducts, pipes and conductors; and
- (l) such other works, including working sites storage areas, and works of demolition, as may be necessary or expedient for the purposes of or in connection with the construction of the authorised development.