Proposed Energy from Waste Combined Heat and Power Facility at Canford Resource Park

Landscape, Ecology and Arboricultural Management Framework

Prepared by:
The Environmental Dimension Partnership Ltd

On behalf of:
MVV Environment Limited

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DISCLAIMER TEXT

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APPENDICES

PLANS

Section 1
Introduction

1.1 The Environmental Dimension Partnership Ltd (EDP) has been commissioned by MVV Environment Limited to prepare a Landscape, Ecology and Arboricultural Management Framework (LEAMF) in relation to the Proposed Energy from Waste Combined Heat and Power Facility at Canford Resource Park (EfW CHP) and associated infrastructure development at Canford Resource Park, off Magna Road, to the north of Poole (hereafter referred to as 'the Proposed Development').

1.2 The EfW CHP Facility Site is allocated for development under Insert 8: Land at Canford Magna, Pool within the adopted Dorset Council 2019 Waste Plan. This LEAMF has been produced in response to the Waste Plan details which state the following development considerations:

"2. Preparation of a landscape design and management plan to include retention of existing vegetation including existing trees and woodland strip to provide a buffer between the site and SNCI and to reduce visual impacts.

3. Ecological mitigation likely to be required due to extension of the site and given proximity of the SSSI. This should include the mitigation of any loss of wet habitat from future development and an appropriate buffer from the SSSI."

1.3 This LEAMF is intended to provide the outline framework for delivering optimal landscape, ecological and arboricultural outcomes for the Proposed Development in line with the above development considerations and as informed by the landscape, ecology and arboricultural assessments of the Development Proposals accompanying the planning application. The necessary detailed measures, conforming with the broad principles set out within this LEAMF, are to be provided within a future comprehensive Landscape, Ecological and Arboricultural Management Plan (LEAMP).

1.4 The Proposed Development is centred at National Grid Reference SZ 03436 96720 and comprises four main components as shown on **Plan EDP 1**, namely:

- The 'EfW CHP Facility Site' – this refers to the main area where the EfW CHP Facility will be located;
- The 'CHP Connection' – the corridor of land south of the EfW CHP Facility Site identified to connect to the Magna Business Park through which the underground pipes, cables and associated infrastructure would be located to supply heat and/or power;
- The 'Distribution Network Connection (DNC)' – the corridor of land and location for a substation south of the EfW CHP Facility Site identified to connect electricity to the National Electricity Transmission Network through underground pipes, cables and associated overground infrastructure; and
- 'Temporary Construction Compound 1' and 'Temporary Construction Compound 2' – there are two Temporary Construction Compounds (TCC) – TCC1 located in the arena

field to the north of the EfW CHP Facility Site, and TCC2 located in a grassland field (known as the greenhouse) to the south of the EfW CHP Facility Site. One of these areas will be required to contain the construction compound for the duration of construction of the EfW CHP Facility.

1.5 The EfW CHP Facility Site measures approximately 2.3 hectares (ha) and is located in the south-western part of an existing integrated waste management park (Canford Resource Park), within the Bournemouth, Christchurch and Poole Council ('BCP Council') authority area.

1.6 The EfW CHP Facility Site comprises predominantly bare ground/hardstanding with natural habitats limited to borders of tall ruderal/ephemeral, and scattered scrub and a strip of semi-natural broadleaved woodland. The TCCs comprise predominantly grassland, with some ephemeral vegetation and some scattered scrub. The CHP Connection and DNC corridors include existing hardstanding roads, a recently built drainage feature, semi-improved grassland and small sections of woodland.

1.7 The wet habitat mentioned within the Waste Plan development considerations is understood to relate to the old silt lagoons that were used in conjunction with the previous quarrying and landfilling at Canford Resource Park and are no longer present, having been filled in to allow for additional waste management operations, storage and vehicle parking some years ago.

1.8 The EfW CHP Facility Site is almost entirely surrounded by semi-natural broadleaf and mixed woodland, and conifer plantation. Despite the degradation of local habitats associated with the existing waste management operations, the EfW CHP Facility Site falls within an ecologically rich landscape, as reflected by the presence of both statutory and non-statutory designations and records for a variety of protected and/or notable species.

1.9 The document should be read in conjunction with the Proposed EfW CHP Facility Site Plan in **Appendix EDP 1**, proposed habitats for the wider redline illustrated on **Plan EDP 1** and the Arboricultural Impact Assessment (incorporating tree protection measures) included as Appendix 8.4 within the Environmental Statement (ES).

Section 2
Vision and Over-arching Management Principles

VISION

2.1 To enable the EfW CHP Facility Site to be developed in a way that protects the ecological and arboricultural resources present within and surrounding the Proposed Development, an overall vision must be clear. This will help secure an appropriate form of development, as well as ensure that the provision of amenity and character is afforded by appropriate landscape design. This is in accordance with Insert 8 of the Dorset Council 2019 Waste Plan. The details are required prior to commencement as they are fundamental to the acceptability of the Proposed Development.

2.2 The overall vision for the Proposed Development in respect of landscape management and maintenance is as follows:

"To ensure that the development of Canford Energy from Waste Combined Heat and Power Facility is carried out in an appropriate manner and that existing features and species of landscape, ecological and arboricultural importance are protected during all phases of development.

Furthermore, the scheme should enable the delivery of the appropriate maintenance and management of all semi-natural habitats that are to be retained, enhanced or created within the Proposed Development and throughout operation, so as to ensure that they continue to deliver benefits for local wildlife, landscape character and visual amenity."

STRATEGIC OBJECTIVES

2.3 The Strategic Objectives for the landscape proposals, as illustrated on the Proposed Site Plan at **Appendix EDP 1**, comprise:

- To ensure the surrounding semi-natural broadleaved woodland – some of which forms a buffer to the adjacent Site of Special Scientific Interest (SSSI) and Site of Nature Conservation Importance (SNCI) – is maintained and where possible enhanced through protection measures and additional planting where necessary;

- To ensure all grassland and other habitats associated with the TCC and CHP Connection Route is returned to its original state post completion of construction; and

- To deliver an overall Biodiversity Net Gain of at least 25% alongside off-site habitat creation and enhancement.

MANAGEMENT PRINCIPLES

2.4 To be able to achieve the vision and Strategic Objectives for the Proposed Development as set out above, the following key Management Principles will need to be incorporated:

- Secure the long-term maintenance of the landscape infrastructure;
- Retain, manage, enhance, and protect existing woodland and other landscape, ecology and arboricultural features (e.g., mature trees);
- Provide an attractive, green environment for the new development and integrate the Proposed Development into the wider landscape setting, using locally prominent species;
- Reinforce the existing vegetation framework, and diversify its structure and age composition; and
- Ensure the new landscape does not compromise the health and safety of those using the Proposed Development.

Section 3
Landscape, Ecological and Arboricultural Management Plans

3.1 Following the approval of planning permission, a comprehensive Landscape, Ecological and Arboricultural Management Plan (LEAMP) is to be developed and agreed with the Local Planning Authority (LPA). The LEAMP will conform to the broad principles set out in this LEAMF.

SCOPE, AIMS AND RESPONSIBILITIES

3.2 The LEAMP will extend over the lifetime of the Proposed Development; requiring subsequent monitoring and review of all operations set out within this document at five yearly intervals. The LEAMP should set out the purpose of the report including a brief description of the Proposed Development in its current condition and the boundary features of note.

3.3 The aim of the future LEAMP should be:

1. To ensure that development is carried out in an appropriate manner and that features and species of landscape, ecological and arboricultural importance are protected during the pre-construction/enabling and construction phases of the scheme; and

2. To enable the delivery of the appropriate establishment, maintenance and management of all semi-natural habitats that are to be retained, enhanced or created within the completed scheme and throughout operation, so as to ensure that they continue to deliver benefits for local wildlife and visual amenity.

LANDSCAPE, ECOLOGICAL AND ARBORICULTURAL RESOURCE

3.4 The LEAMP should demonstrate that the existing landscape, ecological and arboricultural resource of the Proposed Development has been fully understood, with separate resources identified and briefly described, referring to any baseline reporting where necessary.

Landscape Resource

3.5 The landscape resources identified during baseline investigations undertaken by EDP in 2021 and 2022 include the following features:

- EfW CHP Facility Site: Landscape features are restricted to the periphery of the area, where semi-natural broadleaved woodland abuts the boundary of the EfW CHP Facility Site. The majority of the area is currently bare earth/hardstanding;

- The DNC Area is currently semi-improved neutral grassland, with no further vegetation;

- The western extent of the CHP Connection route runs along an existing track through the woodland, whereas the eastern half runs through a small portion of the existing woodland and mostly along field parcels identified as semi-improved neutral grassland;

- TCC1 has been identified as 'Poor Semi-improved Grassland' which has a strip of bare earth running through, used as an access track; and
- TCC2 has been identified as 'Semi-improved Neutral Grassland'. This is a triangular parcel of land surrounded by mature woodland and is connected to the EfW CHP Facility Site by an informal access track.

Ecological Resource

3.6 The ecological resources identified during baseline investigations undertaken by EDP in 2021 and 2022 include the following features:

- Dorset Heathlands SPA/SAC/Ramsar/SSSI adjacent to the southern EfW CHP Facility Site boundary;
- Frogmoor Wood SNCI adjacent to the southern EfW CHP Facility Site boundary;
- Locally valuable broadleaved woodland adjacent to south-western EfW CHP Facility Site boundary and semi-improved neutral grassland within the CHP Connection route, DNC area and TCC2;
- Breeding bird assemblage of Site-level value;
- Five trees of low to moderate suitability to support roosting bats;
- Foraging and commuting bat assemblage of Local-level value;
- Potential for foraging and commuting badger of up to Site-level value;
- Potential for dormouse in boundary features of up to Site-level value; and
- Presence of populations of slow worm, common lizard, grass snake and adder of Local-level value.

Arboricultural Resource

3.7 The arboricultural resources identified during baseline investigations undertaken by EDP in 2022 include the following features:

- 20 individual trees, 19 groups of trees, 3 hedgerows and 6 woodlands, totalling 48 items;
- Of the items surveyed, 6 have been categorised as A of high quality and 27 have been categorised as B, of moderate quality. These items have been prioritised for retention; and
- Consultation with the Local Planning Authority has identified that 24 items are protected under Tree Protection Order (TPO) ref.9/2001 and 10/2001.

GRASSLAND STRATEGY

3.8 The areas of semi-improved grassland that will be subject to temporary impacts during construction, such as that along the CHP Connection route and within the footprint of the TCC, will be restored to its original state as soon as the works are completed. Where possible, sensitive establishment measures and long-term management of this grassland will be implemented to enhance it to a better than existing condition.

3.9 Areas of retained semi-improved grassland within the DNC area of the Proposed Development, in addition to surrounding areas of grassland where possible, will be subject to targeted sensitive management to enhance its condition.

3.10 Further details will be specified within the LEAMP and informed by the Biodiversity Net Gain assessment.

TREE STRATEGY

Existing Tree Stock

3.11 Trees to be retained will be protected in accordance with BS 5837:2012 *Trees in Relation to Design, Demolition and Construction* and the Arboricultural Impact Assessment (AIA) provided within the planning application.

Tree Planting

3.12 New planting will be undertaken in accordance with BS 8545:2014 *Trees; from Nursery to Independence in the Landscape*. Native species will be selected to be in keeping with the existing tree stock across the Proposed Development area and within the local landscape.

Enhancement of Retained Woodland

3.13 The areas of woodland surrounding the EfW CHP Facility Site have potential for enhancement with the correct management, the aims of which should be to:

- Maintain and wherever suitable restore the natural ecological diversity;
- Maintain and where appropriate improve the aesthetic value; and
- Maintain the genetic integrity of populations of native species, so far as is practicable.

3.14 These overarching aims are to be achieved through progression from a reactive to proactive management regime, through delivery of the following objectives which, whilst distinct to the woodland, should be considered in the context of the wider management strategy:

- Implement a program of rhododendron removal;
- Implement a program of coppice works informed by a woodland survey;
- Implement a program of thinning works informed by a woodland survey; and

- Monitor and review the success of the management works, with remedial action implemented.

3.15 Further details will be specified within the LEAMP and informed by the Biodiversity Net Gain assessment.

3.16 Management of this area should be undertaken in consultation with the project ecological consultants, as sensitive methodologies in respect of potential nesting bird, roosting bat, badger, dormouse and reptile presence will be required.

CONSTRUCTION PHASE

3.17 The LEAMP should set out the appropriate habitat creation and landscape planting to be completed to ensure that appropriate measures to provide biodiversity enhancement and visual amenity are implemented from the early stages.

3.18 Several new habitats and landscape features are to be established during the construction phase of the Proposed Development, or in the first planting season following completion.

3.19 The following sections outline the ground preparation and establishment procedures to follow in the creation of the proposed landscape features and habitats. This should be read in conjunction with the landscape proposals referred to above.

ESTABLISHMENT (YEARS 1 – 5)

3.20 This section of the LEAMP should detail the management which should be undertaken for the retained and newly created landscape and ecological habitat features including the trees, grassland and woodland planting, and any surrounding informal strategic landscaping.

3.21 The establishment and management regime for all created and enhanced habitats and areas of strategic landscaping will require subsequent monitoring and review of all operations at five-yearly intervals, and the LEAMP should also set this out in detail.

MANAGEMENT REGIME (YEARS 6 - 30)

3.22 This section of the LEAMP should set out the broad management and maintenance tasks for the long-term care and protection of landscape and ecological features on site. Given the dynamic nature of habitats and their ability to change over time, it is both inappropriate and impractical to set out a fixed and prescriptive set of management tasks to be implemented 'regardless of progress'. A key element of the plan is flexibility. It is, therefore, considered that the LEAMP should be reviewed after five years, with any necessary changes to management documented within an updated LEAMP. However, the recommendations for management identified should be broadly adopted during the management regime of years 6 to 30 and included within an updated LEAMP as required.

MONITORING

3.23 The LEAMP should set out that the Applicant will have responsibility for implementation of the landscape proposals, and as contained within the LEAMP, based on the provided plans and in accordance with the planning consent. When the landscaping is completed as part of the construction, the management company (if such an approach is adopted) will take over responsibility for the maintenance and management of the landscaping described in the LEAMP.

Section 4
Summary

4.1 This LEAMF has been produced to enable the Proposed Development to accord with development considerations set out within the Dorset Council 2019 Waste Plan in addition to mitigation measures from the landscape, ecology and arboricultural assessment of the development proposals. The establishment of a clear vision for the overall Proposed Development is a key delivery consideration, ensuring the provision of amenity and character and a Biodiversity Net Gain of at least 25% are afforded by appropriate landscape design principles.

4.2 It is considered that the management and maintenance guides outlined within this LEAMF are sufficient in protecting and conserving the key landscape, ecological and arboricultural features of the Proposed Development, assuming they are followed into a detailed LEAMP. Measures have been identified to ensure that existing and retained features of landscape, ecological and arboricultural interest within the Proposed Development are suitably protected during the construction phase of the development.

4.3 The requirement for a detailed LEAMP allows the Proposed Development to maintain the viability of new landscape planting, including suggested timings for when operations should occur. Broad recommendations for the continued long-term maintenance and protection of the Proposed Development's landscape and ecological interests have also been provided.

4.4 Any deviations from that prescribed within this LEAMF is to be agreed in writing with the Local Planning Authority.

Appendix EDP 1
Proposed EfW CHP Facility Site Plan

PROPOSED SITE PLAN

SCALE 1 : 500 @ A1

KEY

- PLANNING RED LINE BOUNDARY
- PROPOSED 2.4m HIGH PALADIN TYPE PERIMETER FENCE
- CANFORD HEATH NATURE RESERVE BOUNDARY
- EXISTING TREES
- PROPOSED TREES & SHRUBS

LEVELS

- XX.XXXm — EXISTING LEVELS - AOD
- XX.XXXm — PROPOSED LEVELS - AOD

SCALE

1:500

3m 0 5m 10m 15m 20m 25m

N

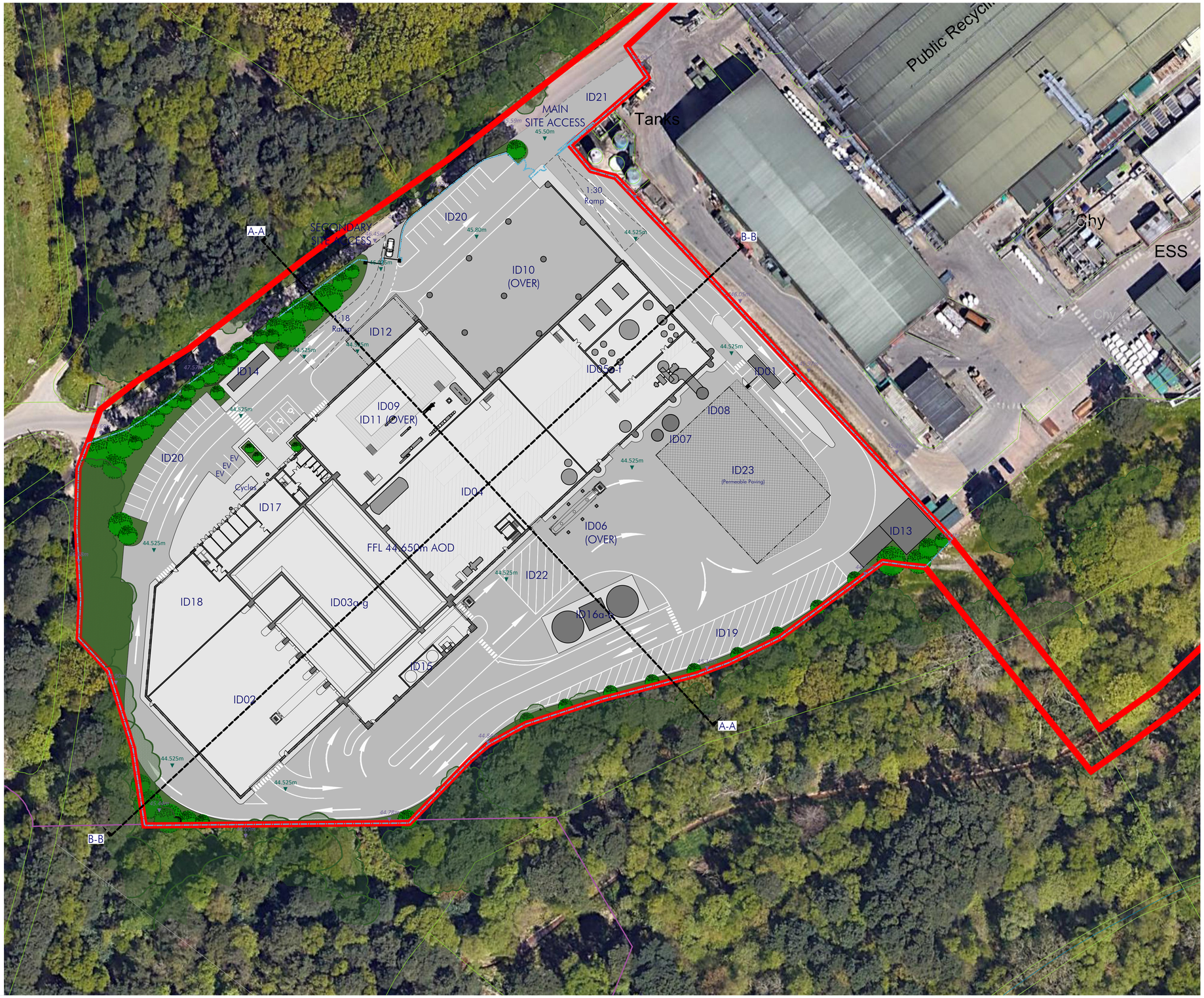
LEGEND

ID01: Gatehouse / weighbridges
ID02: Tipping hall
ID03: Waste bunker building
- (ID03a): Tipping bunker
- (ID03b): Main waste bunker
- (ID03c): Waste chute platform
- (ID03d): Crane maintenance area
- (ID03e): IBA Bunker
- (ID03f): IBA loading enclosure
- (ID03g): Back loading hatch

ID04: Boiler house
ID05: Air pollution control building
- (ID05a): APC plant and reactor
- (ID05b): Bag filter house
- (ID05c): Induced draft (ID) fan
- (ID05d): Compressed air station
- (ID05e): Water treatment plant
- (ID05f): Urea tank

ID06: APCr silos
ID07: Lime & activated carbon silos
ID08: Chimney & CEMS platform
ID09: Turbine hall
ID10: Air cooled condenser (ACC)
ID11: Water re-cooling system
ID12: Future district heating equipment area
ID13: Main transformer & switchgear
ID14: Emergency diesel generator
ID15: Diesel tanks
ID16: Fire water tank & pump enclosure
- (ID16a): Fire water tanks
- (ID16b): Fire pump enclosure

ID17: Switchgear building, administration building and control room
ID18: Workshop & stores
ID19: Lay-by area
ID20: Parking areas
ID21: HGV out of hours parking area
ID22: Mobile crane slab
ID23: Laydown / maintenance & future environmental requirements area



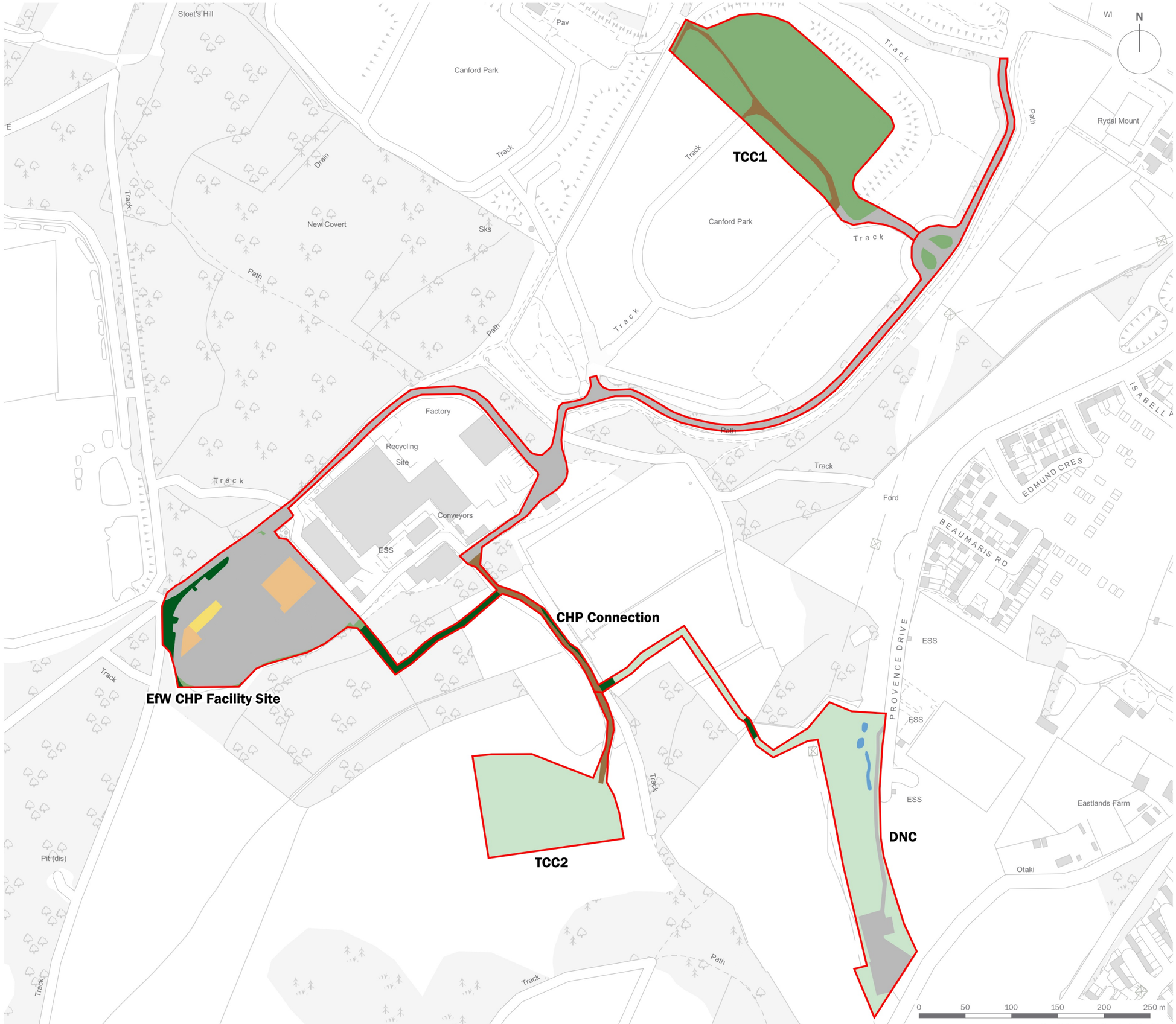
SC1643 / PR / 01 / B - 10/11/2022

CANFORD ENERGY FROM WASTE COMBINED HEAT AND POWER FACILITY

SAVAGE +CHADWICK ARCHITECTS

Plan

Plan EDP 1: Post-construction Proposed Habitats Plan
(edp7095_d034b 11 July 2023 GYo/GCr)



Site Boundary

Other Woodland; Broadleaved

Modified Grassland

Other Neutral Grassland

Sustainable Urban Drainage Feature

Biodiverse Green Roof

Other Green Roof

Developed Land; Sealed Surface

Vacant/Derelict Land/Bareground

client

MVV Environment Limited

project title

Proposed Energy from Waste Combined Heat and Power Facility at Canford Resource Park

drawing title

Post-Construction Proposed Habitats Plan

date	**11 JULY 2023**	drawn by	**GYo**
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the environmental dimension partnership

Registered office: 01285 740427 - www.edp-uk.co.uk - info@edp-uk.co.uk

edp | the environmental dimension partnership

CARDIFF
02921 671900

CHELTENHAM
01242 903110

CIRENCESTER
01285 740427

info@edp-uk.co.uk
www.edp-uk.co.uk

The Environmental Dimension Partnership Ltd. Registered as a Limited Company in England and Wales. Company No. 09102431. Registered Office: Quarry Barn, Elkstone Studios, Elkstone, Gloucestershire GL53 9PQ

REGISTERED ORGANISATION CIfA

URBAN DESIGN GROUP REGISTERED PRACTICE

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