Figure 5.1: Existing Development Site

Legend:
- Development Site Boundary
- Arable Land
- Flood Defences
- Existing Cleve Hill Substation
- Freshwater Grazing Marsh

Cleve Hill Solar Park
Environmental Statement

Existing Site Areas
Figure 5.1
Development Site Layout

Figure 5.2a

Figure 5.2b

Figure 5.2c

Figure 5.2d

Cleve Hill Solar Park
Environmental Statement

Candidate Design
Development Site Layout
Figure 5.2

Cleve Hill Solar Park
Environmental Statement

Scale: 1:XXX@A3

Date: 22/10/2018

Produced By: LH
Ref: 2238-REP-19B

Checked By: MB
Date: 22/10/2018

Development Site Boundary
Existing 11kV Wood Pole Line
Existing 11kV Wood Pole Line to be removed
Development Parcels - Represent Maximum Area proposed for siting of Solar Panels
Solar PV Array
Transformers
Fencing
Site Access
Spine Road
Electrical Compound
Energy Storage Facility
Development Substation
Indicative 400KV Underground Cable Route
Flood Protection Bund
Public Right of Way
Proposed Permissive Route
Arable Reversion HMA
Functional AR HMA (50.1 ha)
Cleve Hill Substation HMA
Freshwater Grazing Marsh HMA
Lowland Grassland Meadow HMA

Maximum Area proposed for siting of Development Parcels
Development Parcels - Represent Maximum Area proposed for siting of Solar Panels
Existing 11kV Wood Pole Line
Existing 11kV Wood Pole Line to be removed

Proposed 5 Bar Field Gate
Proposed Foot Bridges Upgraded
Proposed 5 Bar Field Gate
Proposed Pedestrian Gate
Proposed Culverts
Proposed Native Hedging
Proposed Landscape Screening
Proposed Permissive Route
Proposed CCTV Camera Location
Fencing

Public Right of Way
Indicative 400KV Underground Cable
Transformers
Cleve Hill Substation HMA
Solar PV Array
Solar Panels

Lowland Grassland Meadow HMA
Arable Reversion HMA
Functional AR HMA (50.1 ha)
Cleve Hill Substation HMA
Freshwater Grazing Marsh HMA

Figure 7.2
EIA: Reproductive A4 map data © Crown copyright 2018. All rights reserved. License number 100048606

Cleve Hill Solar Park
Environmental Statement
Ref: 2238-REP-182
Produced By: KB
Checked By: HL

Figure 5.2a

Candidate Design
Development Site Layout

Scale: 1:5,000 @A3

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. ALL DIMENSIONS, CHANGES, LEVELS AND COORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE.

- Development Site Boundary
- Existing 11kV Wood Pole Line to be removed
- Proposed 11kV Underground Cable
- Development Parcels—Represent Maximum Area proposed for siting of Solar Panels
- Solar PV Array
- Transformers
- Fencing
- Proposed CCTV Camera Location
- Site Access
- Spine Road
- Electrical Compound
- Energy Storage Facility
- Development Substation
- Indicative 400kV Underground Cable Route
- Flood Protection Bund
- Public Right of Way
- Proposed Permissive Route
- Arable Reversion HMA
- Functional AR HMA (50.1 ha)
- Cleve Hill Substation HMA
- Freshwater Grazing Marsh HMA (10ha)
- Lowland Grassland Meadow HMA
- Proposed Culverts
- Proposed Native Hedging
- Proposed Permissive Route

Candidate Design
Development Site Layout

Figure 5.2a

Cleve Hill Solar Park
Environmental Statement

Ref: 2238-REP-199
Produced By: LH
Checked By: MB
Date: 22/10/2018
Candidate Design
Development Site Layout
Figure 5.2b
Cleve Hill Solar Park
Environmental Statement
Figure 5.3: Flood Heights

- Nort

- Cleve Hill Solar Park Environmental Statement

- Scale @ A3

- Date: 09/11/2018

- Produced By: KE

- Checked By: MB

- Ref: 2238-REP-203

- Date: 09/11/2018

- Cleve Hill Solar Park Environmental Statement

- Scale @ A3
Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.
Indicative Solar PV Module Mounting Structure Plan

Figure 5.4b

Viewer height is 1.7 m AGL.

Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL.
Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.

NOTE: NOT DRAWN TO SCALE FOR ILLUSTRATIVE PURPOSES ONLY.
Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.
NOTE: NOT DRAWN TO SCALE FOR ILLUSTRATIVE PURPOSES ONLY.

1. ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT WHERE SPECIFICALLY NOTED.

2. DRAWING IS INDICATIVE ONLY.

3. LAYOUT MAY CHANGE DEPENDING ON PROJECT REQUIREMENTS AND CONTRACTOR PREFERENCES.

4. ELEVATIONS ARE IN REFERENCE TO THE POSITIONING OF THE PLAN VIEW.

Indicative Electrical Compound (Battery Pack)

Figure 5.6b

Cleve Hill Solar Park
Environmental Statement
Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.
Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.
ZTV - Bare Earth  
Figure 7.2

Scale @ A3  
Date: 08/11/2018

1:50,000

Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.

Core Landscape Study Area
5 km Landscape Study Area
2 km Landscape Study Area

Zone of Theoretical Visibility  
% of Development that may be visible

1 - 10
10 - 20
20 - 30
30 - 40
40 - 50
50 - 60
60 - 70
70 - 80
80 - 90
90 - 100

Indicative Electrical Compound (Containerised)  
Figure 5.7a

Clearance based on Ordnance Survey Terrain 5 DTM dataset.

400kV Transformer  
400kV Switchyard

Harmonic Filters
400kV

Deluge System

325000

244000

LEFT SIDE

RIGHT SIDE

NOTE:
1. ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT WHERE SPECIFICALLY NOTED.
2. DRAWING IS INDICATIVE ONLY.
3. LAYOUT MAY CHANGE DEPENDING ON PROJECT REQUIREMENTS AND CONTRACTOR PREFERENCES.
4. TOTAL NUMBER OF BATTERY CONTAINERS - 390
5. TOTAL NUMBER OF BATTERY SUBSTATIONS - 130

2238 REP-296  
Date: 22/10/2018

Indicative Electrical Compound (Containerised)
Figure 5.7a

Cleve Hill Solar Park
Environmental Statement
Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.

NOTE: NOT DRAWN TO SCALE FOR ILLUSTRATIVE PURPOSES ONLY.
ZTV - Bare Earth
Figure 7.2

Core Landscape Study Area
5 km Landscape Study Area
2 km Landscape Study Area

Zone of Theoretical Visibility
% of Development that may be visible
1 - 10
10 - 20
20 - 30
30 - 40
40 - 50
50 - 60
60 - 70
70 - 80
80 - 90
90 - 100

Canterbury
Swale

Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.

NOTE: NOT DRAWN TO SCALE FOR ILLUSTRATIVE PURPOSES ONLY.

NOTE:
1. ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT WHERE SPECIFICALLY NOTED.
2. DRAWING IS INDICATIVE ONLY.
3. LAYOUT MAY CHANGE DEPENDING ON PROJECT REQUIREMENTS AND CONTRACTOR PREFERENCES.
4. ELEVATIONS ARE IN REFERENCE TO THE POSITIONING OF THE PLAN VIEW.
5. TOTAL NUMBER OF BATTERY CONTAINERS - 390
6. TOTAL NUMBER OF BATTERY SUBSTATIONS - 130
Solar panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.
**Environmental Statement**

**Cleve Hill Solar Park**

**Figure 7.2** ZTV - Bare Earth

**Indicative Flood Protection Bund**

- **Bund Construction Detail**
  - **ORIGINAL GROUND LEVEL**
  - **400mm TOPSOIL STRIP**
  - **+5.316 A.O.D.**
  - **1:3**
  - **0.300m (VARIES)**
  - **+5.016 A.O.D. (MAX FLOOD)**
  - **1:3**
  - **7.300m**

**INDICATIVE BUND & ROAD CONSTRUCTION DETAIL**

- **IMPERMEABLE CORE - SUITABLE SITE WON MATERIAL**
- **IMPERVIOUS FOUNDATION**
- **CORE TRENCH - SUITABLE SITE WON MATERIAL**
- **400mm TOPSOIL STRIP**
- **ORIGINAL GROUND LEVEL**
- **100mm TOPSOIL**

**NOTE:** NOT DRAWN TO SCALE FOR ILLUSTRATIVE PURPOSES ONLY.

**Indicative Flood Protection Bund**

- **FLOOD LEVELS ARE AS PER REPORT BY JBA AND ASSOCIATED DOMAINS_2_DEF_T1000_2070_WO_BREACH_001_H_G005_MAX MODELLING DATA FROM JBA. MODEL USED IS REF. JDB JDB AD**
- **FLOOD LEVEL SHOWN IS AS PER JBA REPORT (DETAILS BELOW).**
- **3. BUND ELEVATION IS TO BE A MINIMUM 5.316mAOD.**
- **5. SITE WON MATERIAL VIABILITY TO BE CONFIRMED.**
- **6. EXISTING SITE LEVELS ARE BASED ON EXTRACTION OF AVAILABLE MATERIAL.**
- **7. FLOOD LEVEL SHOWN IS AS PER JBA REPORT (DETAILS BELOW).**
- **ASSUME 300mm FREEBOARD**
- **MAXIMUM FLOOD DEPTH WITHIN THE COMPOUND IS 5.016mAOD**
- **FLOOD LEVELS MODELLED FOR 2070 (INCLUDING CLIMATE CHANGE)**

**TARMAC ROAD CONSTRUCTION**

**GENERAL NOTES:**

- **1. MAXIMUM BUND HEIGHT ABOVE GROUND LEVEL=**
- **- 3.783m**
- **- 4.368m (EXCLUDING EXISTING DITCH)**
- **- 5.014m (INCLUDING EXISTING DITCH)**
- **2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.**
- **3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.**
- **4. FOR GENERAL NOTES REFER TO DRAWING.**
- **5. SITE WON MATERIAL VIABILITY TO BE CONFIRMED.**
- **6. EXISTING SITE LEVELS ARE BASED ON EXTRACTION OF AVAILABLE MATERIAL.**
- **7. FLOOD LEVEL SHOWN IS AS PER JBA REPORT (DETAILS BELOW).**
- **ASSUME 300mm FREEBOARD**
- **MAXIMUM FLOOD DEPTH WITHIN THE COMPOUND IS 5.016mAOD**
- **FLOOD LEVELS MODELLED FOR 2070 (INCLUDING CLIMATE CHANGE)**

**Figure 7.2** ZTV - Bare Earth

**Civils & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer**

**NOTICE:** NOT DRAWN TO SCALE FOR ILLUSTRATIVE PURPOSES ONLY.

**Produced By:** LH  
**Ref:** 2238-REP-299  
**Checked By:** MB  
**Date:** 22/10/2018  
**Cleve Hill Solar Park**  
**Environmental Statement**
Cleve Hill Solar Park
Environmental Statement

Indicative 400KV Under Cable Connection Route
Figure 5.9

Cleve Hill Solar Park
Environmental Statement

Development Site Boundary
Fencing
Site Access
Spine Road
Electrical Compound
Energy Storage Facility
Development Substation
Indicative 400KV Underground Cable Route
Flood Protection Bund

Scale 1:2000 @A3

Proposed 11kV Underground Cable
Existing 11kV Wood Pole Line to be removed

Proposed 11kV Underground Cable
Indicative 400KV Underground Cable
Spine Road
Site Access

Proposed Landscape Screening
Proposed Native Hedging
Proposed Permissive Route
Public Right of Way

Proposed Foot Bridges Upgraded
Proposed 5 Bar Field Gate
Functional AR HMA (50.1 ha)

Proposed Culverts
Freshwater Grazing Marsh HMA
Lowland Grassland Meadow HMA

Proposed Pedestrian Gate

Proposed Energy Storage Facility

Development Parcels - Represent
Development Site Boundary
Fencing

Maximum Area proposed for siting of Solar Panels

5 km Landscape Study Area

Northern Access Option

Southern Access Option

Indicative 400KV Under Cable Connection Route

Figure 5.9

DRAWING NO.: 2238-REP-182

Produced By: KB
Date: 08/11/2018
Ref: 2238-REP-300

Checks By: LH
Date: 22/10/2018
Site Access Options
Figure 5.10

Cleve Hill Solar Park
Environmental Statement
Solar Panel heights vary across the Development Area and have been run at heights of 3.01 to 3.91 m Above Ground Level (AGL). Bund surrounding substation is 3.4 m AGL, and substation area is 11 m AGL. Viewer height is 1.7 m AGL.

NOTE: NOT DRAWN TO SCALE FOR ILLUSTRATIVE PURPOSES ONLY.

Indicative Culvert Detail

Figure 5.12

General Notes:
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED/VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.

Indicative Culvert Detail

Figure 5.12