Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Response to the Examining Authority's Second Written Question 2.17.1.2: Additional Supporting Material – Onshore Substation Visualisations

Revision A
Deadline 4
May 2023
Document Reference: 16.2.3.1

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Title**:**		
Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects Examination submission **WQ2.17.1.2: Additional Supporting Material – Onshore Substation Visualisations**		
PINS document no.: 16.2.3.1		
Document no.: C282-LD-Z-GA-00014		
Date:	Classification	
May 2023	**Final**	
Prepared by: **LDA Design**		
Approved by: **Sheery Atkins, Equinor**	Date: May 2023	

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Covering Note: WQ2.17.1.2: Additional Supporting Material – Onshore Substation Visualisations

1 Introduction

1. The Examining Authority asked in their Second Written Question '2.17.1.2: Viewpoints along PRoWs' for the Applicant to *"... provide a further illustrative viewpoint which depicts the effects on receptors on the PRoW in this location. Provide a similar level of information as that provided for viewpoint 2 [APP-159]."*

2. The Applicant has prepared the requested visualisation from the Public Bridleway (BR3 - Stoke Holy Cross); presented in the pages hereafter as 'Viewpoint 10 - Stoke Holy Cross BR3'. The material in this document should be considered together with the document **Onshore Substation Design** found in **Appendix B.1 in Appendix B - Supporting documents to the Applicant's Responses to the Examining Authority's Second Written Questions** [document reference 16.2.2] (issued at Deadline 3, see REP3-103), and specifically paragraphs 17 to 21 concerning visibility of Norwich Main Substation and the Onshore Substation ('OnSS').

3. The additional visual information submitted comprises:

   - A visualisation from the former viewpoint used for the Preliminary Environmental Impact Report ('PEIR'), namely Viewpoint 3B - Stoke Holy Cross (BR3), which is located to the north-west of the OnSS and renamed 'Viewpoint 11 - Stoke Holy Cross BR3'. This view illustrates the degree to which the OnSS is visible near the southwestern corner of the National Grid Norwich Main Substation.
   - Three supporting illustrative viewpoints have also been captured and presented on photopanels to show the degree of visibility of the OnSS that users of the Public Bridleway (Swardeston BR12/Stoke Holy Cross BR3) would experience, when travelling in an easterly direction. The purpose of each illustrative viewpoint is to show the existing visual baseline and context of the OnSS along this PRoW, and the extent of visibility in the direction of the OnSS site. Each photopanel annotates the location and extent of the OnSS site alongside the labels noting notable features in each part of the view. Each photopanel is pertinent to the contents of REP3-103.

2 Key documents relating to WQ2.17.1.2: Additional Supporting Material – Onshore Substation Visualisations

Table 1 Key documents

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Appendix C: Q2.17.1.2. Figure C3: Illustrative Viewpoint A – Bridleway (Swardeston BR12)
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Document
Appendix C: Q2.17.1.2. Figure C5: Illustrative Viewpoint C – Bridleway (Stoke Holy Cross BR3)

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LEGEND

External equipment modelled at 30m high above max. potential ground level.
- External equipment visible in view
- External equipment screened by intervening vegetation and / or development

Buildings modelled at 15m high above max. potential ground level.
- Buildings visible in view
- Buildings screened by intervening vegetation and / or development

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N	Horizontal Field of View:	90° (Cylindrical projection)	Photo Date / Time:	20/04/2023 12:27
Ground Level (mAOD):	28.6m	Paper Size:	841mm x 297mm (Half A1)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Direction of View: bearing from North (0°):	10°	Enlargement Factor:	96%	Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Distance to Substation:	225m	Visualisation Type:	Type 3	Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
The 3D substation wireline model (blue and red lines) is indicative and not based on an accurate design, but shows the maximum design scenario. In reality development is likely to occupy a smaller area, which will be determined at detailed design stage. Solid lines show potential development areas that would be visible. Dashed lines show potential development areas that would be screened by intervening vegetation and / or development. The wireline does not show the parts of the development that would be obscured by landform. The wireline model is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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APPLICATION DOC. NO.: 16.2.3

Figure C.1 Sheet 1 of 3

Viewpoint 10 (Left) - Bridleway (Stoke Holy Cross BR3)

EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N
Ground Level (mAOD):	28.6m
Direction of View: bearing from North (0°):	100°
Distance to Substation:	225m

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	20/04/2023 12:27
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
The 3D substation wireline model (blue and red lines) is indicative and not based on an accurate design, but shows the maximum design scenario. In reality development is likely to occupy a smaller area, which will be determined at detailed design stage. Solid lines show potential development areas that would be visible. Dashed lines show potential development areas that would be screened by intervening vegetation and / or development. The wireline does not show the parts of the development that would be obscured by landform. The wireline model is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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Figure C.1 Sheet 2 of 3
Viewpoint 10 (Centre) - Bridleway (Stoke Holy Cross BR3)
EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N
Ground Level (mAOD):	28.6m
Direction of View: bearing from North (0°):	190°
Distance to Substation:	225m

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	20/04/2023 12:27
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
The 3D substation wireline model (blue and red lines) is indicative and not based on an accurate design, but shows the maximum design scenario. In reality development is likely to occupy a smaller area, which will be determined at detailed design stage. Solid lines show potential development areas that would be visible. Dashed lines show potential development areas that would be screened by intervening vegetation and / or development. The wireline does not show the parts of the development that would be obscured by landform. The wireline model is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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Appendix C – Q2.17.1.2: Additional Supporting Material
APPLICATION DOC. NO.: 16.2.3

Figure C.1 Sheet 3 of 3
Viewpoint 10 (Right) - Bridleway (Stoke Holy Cross BR3)
EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N
Ground Level (mAOD):	28.6m
Direction of View: bearing from North (0°):	10°
Distance to Substation:	225m

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	20/04/2023 12:27
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18. Outline Landscape Management Plan (Revision C) [REP3-066]'. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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APPLICATION DOC. NO.: 16.2.3

Figure C.1 Sheet 1 of 3
Viewpoint 10 (Left) - Bridleway (Stoke Holy Cross BR3)
EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: NA
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N	Horizontal Field of View:	90° (Cylindrical projection)	Photo Date / Time:	20/04/2023 12:27	NOTES. The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18. Outline Landscape Management Plan (Revision C) [REP3-066]'. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.	
Ground Level (mAOD):	28.6m	Paper Size:	841mm x 297mm (Half A1)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		
Direction of View: bearing from North (0°):	100°	Enlargement Factor:	96%	Lens Make, Model and Focal Length:	Sigma 50mm f1.4		
Distance to Substation:	225m	Visualisation Type:	Type 3	Height of Camera Lens above Ground (mAOD):	1.5m		

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Viewpoint 10 (Center) - Bridleway (Stoke Holy Cross BR3)

EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N
Ground Level (mAOD):	28.6m
Direction of View: bearing from North (0°):	190°
Distance to Substation:	225m

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	20/04/2023 12:27
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18. Outline Landscape Management Plan (Revision C) [REP3-066]'. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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Viewpoint 10 (Right) - Bridleway (Stoke Holy Cross BR3)
EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N
Ground Level (mAOD):	28.6m
Direction of View: bearing from North (0°):	10°
Distance to Substation:	225m

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	20/04/2023 12:27
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18. Outline Landscape Management Plan (Revision C) [REP3-066]'. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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Viewpoint 10 (Left) - Bridleway (Stoke Holy Cross BR3)
EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: NA
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N
Ground Level (mAOD):	28.6m
Direction of View: bearing from North (0°):	100°
Distance to Substation:	225m

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	20/04/2023 12:27
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18. Outline Landscape Management Plan (Revision C) [REP3-066]'. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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APPLICATION DOC. NO.: 16.2.3

Figure C.1 Sheet 2 of 3
Viewpoint 10 (Centre) - Bridleway (Stoke Holy Cross BR3)
EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N	Horizontal Field of View:	90° (Cylindrical projection)	Photo Date / Time:	20/04/2023 12:27	NOTES. The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18. Outline Landscape Management Plan (Revision C) [REP3-066]'. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.	
Ground Level (mAOD):	28.6m	Paper Size:	841mm x 297mm (Half A1)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		
Direction of View: bearing from North (0°):	190°	Enlargement Factor:	96%	Lens Make, Model and Focal Length:	Sigma 50mm f1.4		
Distance to Substation:	225m	Visualisation Type:	Type 3	Height of Camera Lens above Ground (mAOD):	1.5m		

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Viewpoint 10 (Right) - Bridleway (Stoke Holy Cross BR3)

EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

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LEGEND

External equipment modelled at 30m high above max. potential ground level.

- External equipment visible in view
- External equipment screened by intervening vegetation and / or development

Buildings modelled at 15m high above max. potential ground level.

- Buildings visible in view
- Buildings screened by intervening vegetation and / or development
- Development platform modelled at max. potential ground level and footprint, where visible in the view.

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N	Horizontal Field of View:	90° (Cylindrical projection)	Photo Date / Time:	20/04/2023 12:27
Ground Level (mAOD):	28.6m	Paper Size:	841mm x 297mm (Half A1)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Direction of View: bearing from North (0°):	10°	Enlargement Factor:	96%	Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Distance to Substation:	225m	Visualisation Type:	Type 3	Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
This visualisation has been produced, for consistency across material submitted during the Examination, in accordance with the Examining Authority's request at Deadline 2 for bespoke visualisations for the purposes of the Accompanied Site Inspection on Friday 24th March 2023. This visualisation presents the existing view at Year 1, with overlays of both the parameters and indicative 3D model of the substation, allowing only for the screening effects of existing landform. The 3D substation photomontage is indicative and not based on an accurate design. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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APPLICATION DOC. NO.: 16.2.3

Figure C.1 Sheet 1 of 3
Viewpoint 10 (Left) - Bridleway (Stoke Holy Cross BR3)
EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LEGEND

External equipment modelled at 30m high above max. potential ground level.

- External equipment visible in view
- External equipment screened by intervening vegetation and / or development

Buildings modelled at 15m high above max. potential ground level.

- Buildings visible in view
- Buildings screened by intervening vegetation and / or development
- Development platform modelled at max. potential ground level and footprint, where visible in the view.

LDĀ DESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N
Ground Level (mAOD):	28.6m
Direction of View: bearing from North (0°):	100°
Distance to Substation:	225m
Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3
Photo Date / Time:	20/04/2023 12:27
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
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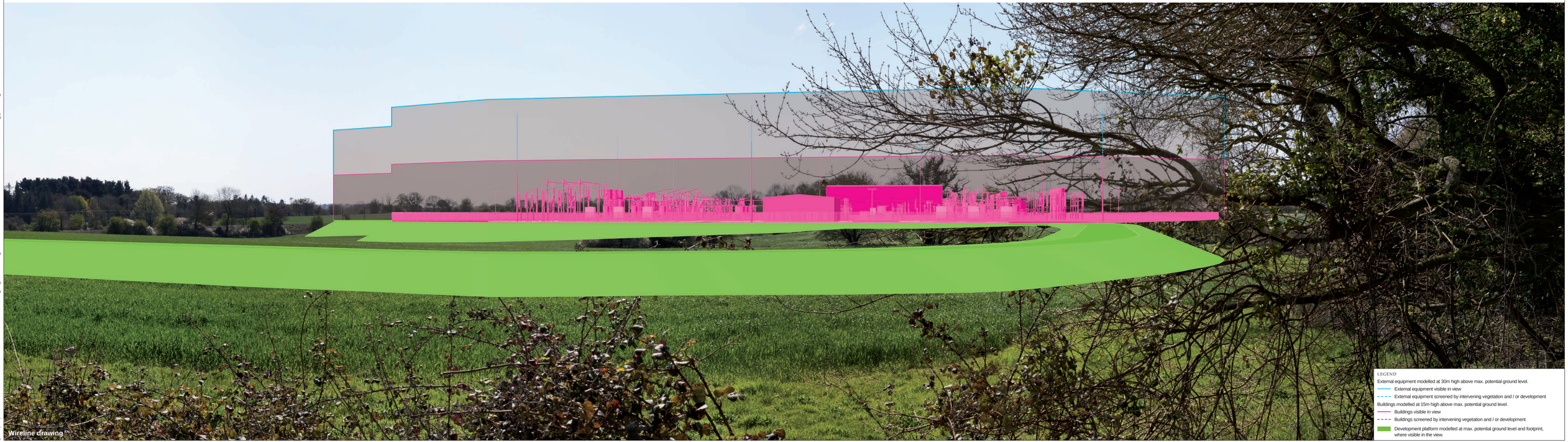
APPLICATION DOC. NO.: 16.2.3

Figure C.1 Sheet 2 of 3

Viewpoint 10 (Centre) - Bridleway (Stoke Holy Cross BR3)

EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG



LEGEND

External equipment modelled at 30m high above max. potential ground level.

- External equipment visible in view
- External equipment screened by intervening vegetation and / or development

Buildings modelled at 15m high above max. potential ground level.

- Buildings visible in view
- Buildings screened by intervening vegetation and / or development

Development platform modelled at max. potential ground level and footprint, where visible in the view.

LDĀDESIGN

Camera Location (OS Grid Reference):	621889 E 302192 N
Ground Level (mAOD):	28.6m
Direction of View: bearing from North (0°):	190°
Distance to Substation:	225m

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	20/04/2023 12:27
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
This visualisation has been produced, for consistency across material submitted during the Examination, in accordance with the Examining Authority's request at Deadline 2 for bespoke visualisations for the purposes of the Accompanied Site Inspection on Friday 24th March 2023. This visualisation presents the existing view at Year 1, with overlays of both the parameters and indicative 3D model of the substation, allowing only for the screening effects of existing landform. The 3D substation photomontage is indicative and not based on an accurate design. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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APPLICATION DOC. NO.: 16.2.3

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Viewpoint 10 (Right) - Bridleway (Stoke Holy Cross BR3)

EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: NA
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LEGEND

External equipment modelled at 30m high above max. potential ground level.

- External equipment visible in view
- External equipment screened by intervening vegetation and / or development

Buildings modelled at 15m high above max. potential ground level.

- Buildings visible in view
- Buildings screened by intervening vegetation and / or development

LDĀ DESIGN

Camera Location (OS Grid Reference):	621647 E 302290 N	Horizontal Field of View:	90° (Cylindrical projection)	Photo Date / Time:	06/10/2020 11:42
Ground Level (mAOD):	33.0m	Paper Size:	841mm x 297mm (Half A1)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Direction of View: bearing from North (0°):	146°	Enlargement Factor:	96%	Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Distance to Substation:	0.1km	Visualisation Type:	Type 3	Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
The 3D substation wireline model (blue and red lines) is indicative and not based on an accurate design, but shows the maximum design scenario. In reality development is likely to occupy a smaller area, which will be determined at detailed design stage. Solid lines show potential development areas that would be visible. Dashed lines show potential development areas that would be screened by intervening vegetation and / or development. The wireline does not show the parts of the development that would be obscured by landform. The wireline model is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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Viewpoint 11 - Bridleway (Swardeston BR12)

EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: N/A
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621647 E 302290 N
Ground Level (mAOD):	33.0m
Direction of View: bearing from North (0°):	146°
Distance to Substation:	0.1km

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	06/10/2020 11:42
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18. Outline Landscape Management Plan (Revision C) [REP3-066]'. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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Sheringham Shoal and Dudgeon Extension Projects
DOCUMENT: Environmental Statement (ES)
Appendix C – Q2.17.1.2: Additional Supporting Material
APPLICATION DOC. NO.: 16.2.3

Figure C.2 Sheet 1 of 1
Viewpoint 11 - Bridleway (Swardeston BR12)
EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: NA
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LDĀDESIGN

Camera Location (OS Grid Reference):	621647 E 302290 N	Horizontal Field of View:	90° (Cylindrical projection)	Photo Date / Time:	06/10/2020 11:42	NOTES. The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18. Outline Landscape Management Plan (Revision C) [REP3-066]'. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.	
Ground Level (mAOD):	33.0m	Paper Size:	841mm x 297mm (Half A1)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		
Direction of View: bearing from North (0°):	146°	Enlargement Factor:	96%	Lens Make, Model and Focal Length:	Sigma 50mm f1.4		
Distance to Substation:	0.1km	Visualisation Type:	Type 3	Height of Camera Lens above Ground (mAOD):	1.5m		

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Sheringham Shoal and Dudgeon Extension Projects

DOCUMENT: Environmental Statement (ES)
Appendix C – Q2.17.1.2: Additional Supporting Material
APPLICATION DOC. NO.: 16.2.3

Figure C.2 Sheet 1 of 1

Viewpoint 11 - Bridleway (Swardeston BR12)

EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: NA
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

LEGEND

External equipment modelled at 30m high above max. potential ground level.

- External equipment visible in view
- External equipment screened by intervening vegetation and / or development

Buildings modelled at 15m high above max. potential ground level.

- Buildings visible in view
- Buildings screened by intervening vegetation and / or development
- Development platform modelled at max. potential ground level and footprint, where visible in the view.

LDĀDESIGN

Camera Location (OS Grid Reference):	621647 E 302290 N
Ground Level (mAOD):	33.0m
Direction of View: bearing from North (0°):	146°
Distance to Substation:	0.1km

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	06/10/2020 11:42
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES.
This visualisation has been produced, for consistency across material submitted during the Examination, in accordance with the Examining Authority's request at Deadline 2 for bespoke visualisations for the purposes of the Accompanied Site Inspection on Friday 24th March 2023. This visualisation presents the existing view at Year 1, with overlays of both the parameters and indicative 3D model of the substation, allowing only for the screening effects of existing landform. The 3D substation photomontage is indicative and not based on an accurate design. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.

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Sheringham Shoal and Dudgeon Extension Projects

DOCUMENT: Environmental Statement (ES)
Appendix C – Q2.17.1.2: Additional Supporting Material
APPLICATION DOC. NO.: 16.2.3

Figure C.2 Sheet 1 of 1

Viewpoint 11 - Bridleway (Swardeston BR12)

EQUINOR DOC. NO.: C282-LD-Z-GA-00014
RHDHV DOC. NO.: NA
REV: A DATE: 12/05/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

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Camera Location (OS Grid Reference):	621320 E 302323 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 13:10	**Sheringham Shoal and Dudgeon Extension Projects**	Figure C.3 Sheet 1 of 3
Ground Level (mAOD):	36.3m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		Illustrative Viewpoint A (Let) - Bridleway (Swardeston BR12)
Direction of View: bearing from North (0°):	61°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4	DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material	EQUINOR DOC. NO.: C282-LD-Z-GA-00014
Distance to Substation:	547m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m	APPLICATION DOC. NO.: 16.2.3	RHDHV DOC. NO.: N/A
							REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

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Approximate extent of site (beyond vegetation)

Camera Location (OS Grid Reference):	621320 E 302323 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 13:10	**Sheringham Shoal and Dudgeon Extension Projects**	Figure C.3 Sheet 2 of 3
Ground Level (mAOD):	36.3m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS	DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material	Illustrative Viewpoint A (Centre) - Bridleway (Swardeston BR12)
Direction of View: bearing from North (0°):	121°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4	APPLICATION DOC. NO.: 16.2.3	EQUINOR DOC. NO.: C282-LD-Z-GA-00014
Distance to Substation:	547m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m		RHDHV DOC. NO.: N/A
							REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

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Camera Location (OS Grid Reference):	621320 E 302323 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 13:10	**Sheringham Shoal and Dudgeon Extension Projects** DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material APPLICATION DOC. NO.: 16.2.3	Figure C.3 Sheet 3 of 3 Illustrative Viewpoint A (Right) - Bridleway (Swardeston BR12) EQUINOR DOC. NO.: C282-LD-Z-GA-00014 RHDHV DOC. NO.: N/A REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG
Ground Level (mAOD):	36.3m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		
Direction of View: bearing from North (0°):	181°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4		
Distance to Substation:	547m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m		

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LDĀDESIGN

National Grid Norwich Main Substation

Public Bridleway (Swardeston BR12)

Camera Location (OS Grid Reference):	621561 E 302325 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 13:22	**Sheringham Shoal and Dudgeon Extension Projects**	Figure C.4 Sheet 1 of 3
Ground Level (mAOD):	33.6m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		Illustrative Viewpoint B (Left) - Bridleway (Swardeston BR12)
Direction of View: bearing from North (0°):	80°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4	DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material	EQUINOR DOC. NO.: C282-LD-Z-GA-00014
Distance to Substation:	376m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m	APPLICATION DOC. NO.: 16.2.3	RHDHV DOC. NO.: N/A
							REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

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Approximate extent of site (beyond vegetation)

Camera Location (OS Grid Reference):	621561 E 302325 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 13:22	**Sheringham Shoal and Dudgeon Extension Projects**	Figure C.4 Sheet 2 of 3
Ground Level (mAOD):	33.6m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS	DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material	Illustrative Viewpoint B (Centre) - Bridleway (Swardeston BR12)
Direction of View: bearing from North (0°):	140°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4	APPLICATION DOC. NO.: 16.2.3	EQUINOR DOC. NO.: C282-LD-Z-GA-00014
Distance to Substation:	376m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m		RHDHV DOC. NO.: N/A
							REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

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Camera Location (OS Grid Reference):	621561 E 302325 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 13:22	**Sheringham Shoal and Dudgeon Extension Projects**	Figure C.4 Sheet 3 of 3
Ground Level (mAOD):	33.6m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		Illustrative Viewpoint B (Right) - Bridleway (Swardeston BR12)
Direction of View: bearing from North (0°):	200°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4	DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material	EQUINOR DOC. NO.: C282-LD-Z-GA-00014
Distance to Substation:	376m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m	APPLICATION DOC. NO.: 16.2.3	RHDHV DOC. NO.: N/A
							REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

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Camera Location (OS Grid Reference):	621792 E 302222 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 11:58	**Sheringham Shoal and Dudgeon Extension Projects**	Figure C.5 Sheet 1 of 6
Ground Level (mAOD):	29.4m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS	DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material	Illustrative Viewpoint C (Left) - Bridleway (Stoke Holy Cross BR3)
Direction of View: bearing from North (0°):	356°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4	APPLICATION DOC. NO.: 16.2.3	EQUINOR DOC. NO.: C282-LD-Z-GA-00014
Distance to Substation:	222m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m		RHDHV DOC. NO.: N/A
							REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG

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National Grid Norwich Main Substation

Camera Location (OS Grid Reference):	621792 E 302222 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 11:58	**Sheringham Shoal and Dudgeon Extension Projects** DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material APPLICATION DOC. NO.: 16.2.3	Figure C.5 Sheet 2 of 6 Illustrative Viewpoint C (Left-centre) - Bridleway (Stoke Holy Cross BR3) EQUINOR DOC. NO.: C282-LD-Z-GA-00014 RHDHV DOC. NO.: N/A REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG
Ground Level (mAOD):	29.4m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		
Direction of View: bearing from North (0°):	56°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4		
Distance to Substation:	222m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m		

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Public Bridleway (Stoke Holy Cross BR3)

Camera Location (OS Grid Reference):	621792 E 302222 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 11:58	**Sheringham Shoal and Dudgeon Extension Projects**	Figure C.5 Sheet 3 of 6
Ground Level (mAOD):	29.4m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS	DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material	Illustrative Viewpoint C (Centre-left) - Bridleway (Stoke Holy Cross BR3)
Direction of View: bearing from North (0°):	116°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4	APPLICATION DOC. NO.: 16.2.3	EQUINOR DOC. NO.: C282-LD-Z-GA-00014 RHDHV DOC. NO.: N/A REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG
Distance to Substation:	222m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m		

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LDĀDESIGN

Approximate extent of site

Camera Location (OS Grid Reference):	621792 E 302222 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 11:58	**Sheringham Shoal and Dudgeon Extension Projects** DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material APPLICATION DOC. NO.: 16.2.3	Figure C.5 Sheet 4 of 6 Illustrative Viewpoint C (Centre-right) - Bridleway (Stoke Holy Cross BR3) EQUINOR DOC. NO.: C282-LD-Z-GA-00014 RHDHV DOC. NO.: N/A REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG
Ground Level (mAOD):	29.4m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		
Direction of View: bearing from North (0°):	176°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4		
Distance to Substation:	222m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m		

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Camera Location (OS Grid Reference):	621792 E 302222 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 11:58	**Sheringham Shoal and Dudgeon Extension Projects** DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material APPLICATION DOC. NO.: 16.2.3	Figure C.5 Sheet 5 of 6 Illustrative Viewpoint C (Right-centre) - Bridleway (Stoke Holy Cross BR3) EQUINOR DOC. NO.: C282-LD-Z-GA-00014 RHDHV DOC. NO.: N/A REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG
Ground Level (mAOD):	29.4m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		
Direction of View: bearing from North (0°):	236°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4		
Distance to Substation:	222m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m		

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Public Bridleway (Stoke Holy Cross BR3)

Camera Location (OS Grid Reference):	621792 E 302222 N	Horizontal Field of View:	60° (Cylindrical projection)	Photo Date / Time:	20/04/2023 11:58	**Sheringham Shoal and Dudgeon Extension Projects**	Figure C.5 Sheet 6 of 6
Ground Level (mAOD):	29.4m	Paper Size:	420mm x 297mm (A3)	Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS		Illustrative Viewpoint C (Right) - Bridleway (Stoke Holy Cross BR3)
Direction of View: bearing from North (0°):	296°	Enlargement Factor:	TBC	Lens Make, Model and Focal Length:	Sigma 50mm f1.4	DOCUMENT: Environmental Statement (ES) Appendix C – Q2.17.1.2: Additional Supporting Material	EQUINOR DOC. NO.: C282-LD-Z-GA-00014
Distance to Substation:	222m	Visualisation Type:	Type 1 (for context)	Height of Camera Lens above Ground (mAOD):	1.5m	APPLICATION DOC. NO.: 16.2.3	RHDHV DOC. NO.: N/A
							REV: A DATE: 12/09/2023 STATUS: First Issue DRW: VW CHK: NA APR: CG