

AENC-LSTC-ENG-DWG-0004

Norwich to Tilbury

Volume 2: Plans, Drawings and Sections

Document: 2.6.2 Design and Layout Plans - Overhead Lines

Final Issue

August 2025

Planning Inspectorate Reference: EN020027

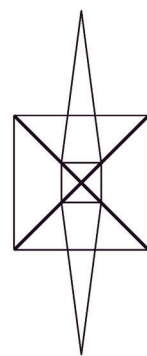
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(o)

nationalgrid

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE OVERHEAD LINE LIMITS OF DEVIATION
REGULATION 5(2)(o)
SHEET 1 OF 1

Application Document 2.6.2

LEGEND



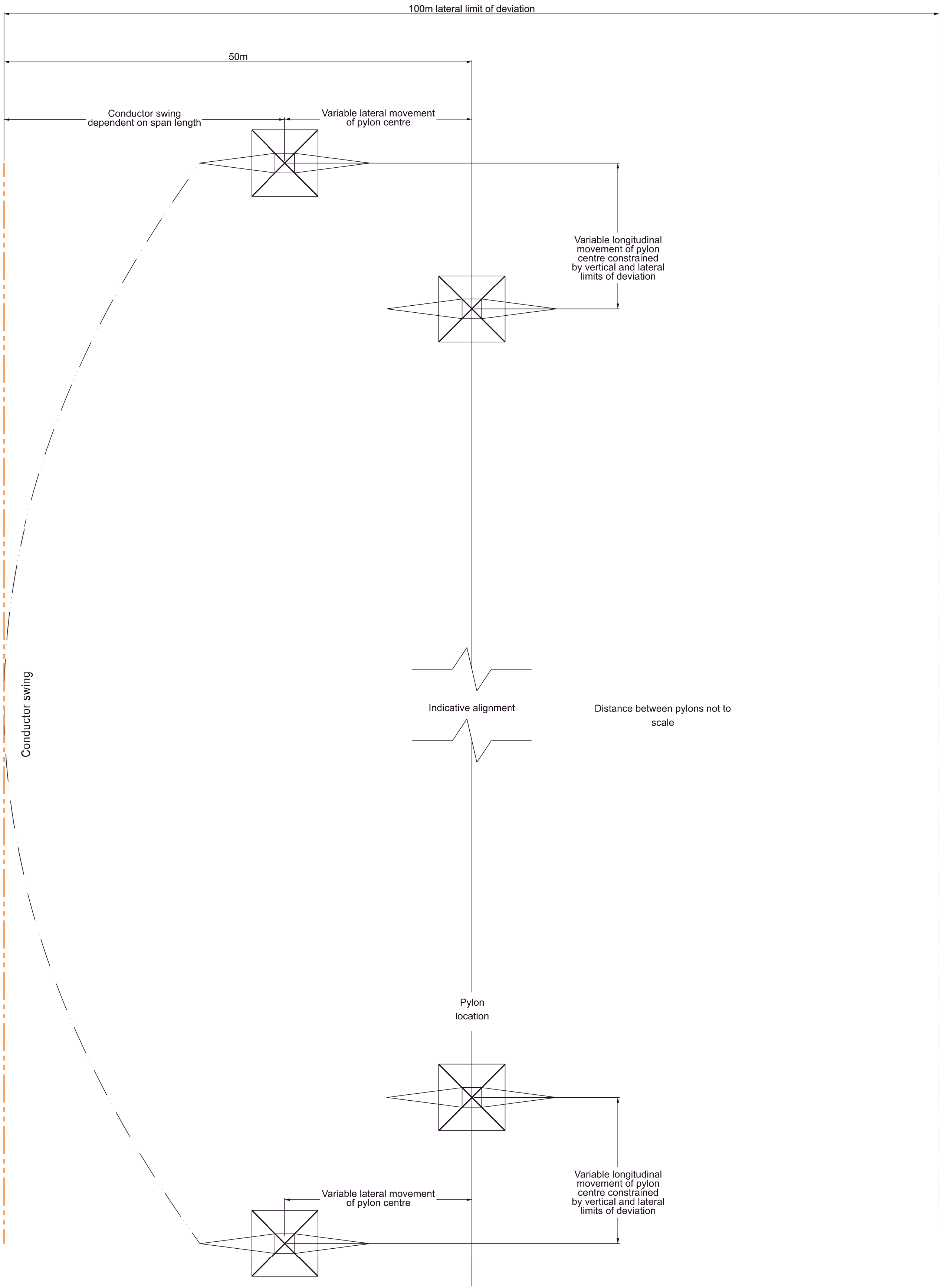
Pylon

Limits of deviation

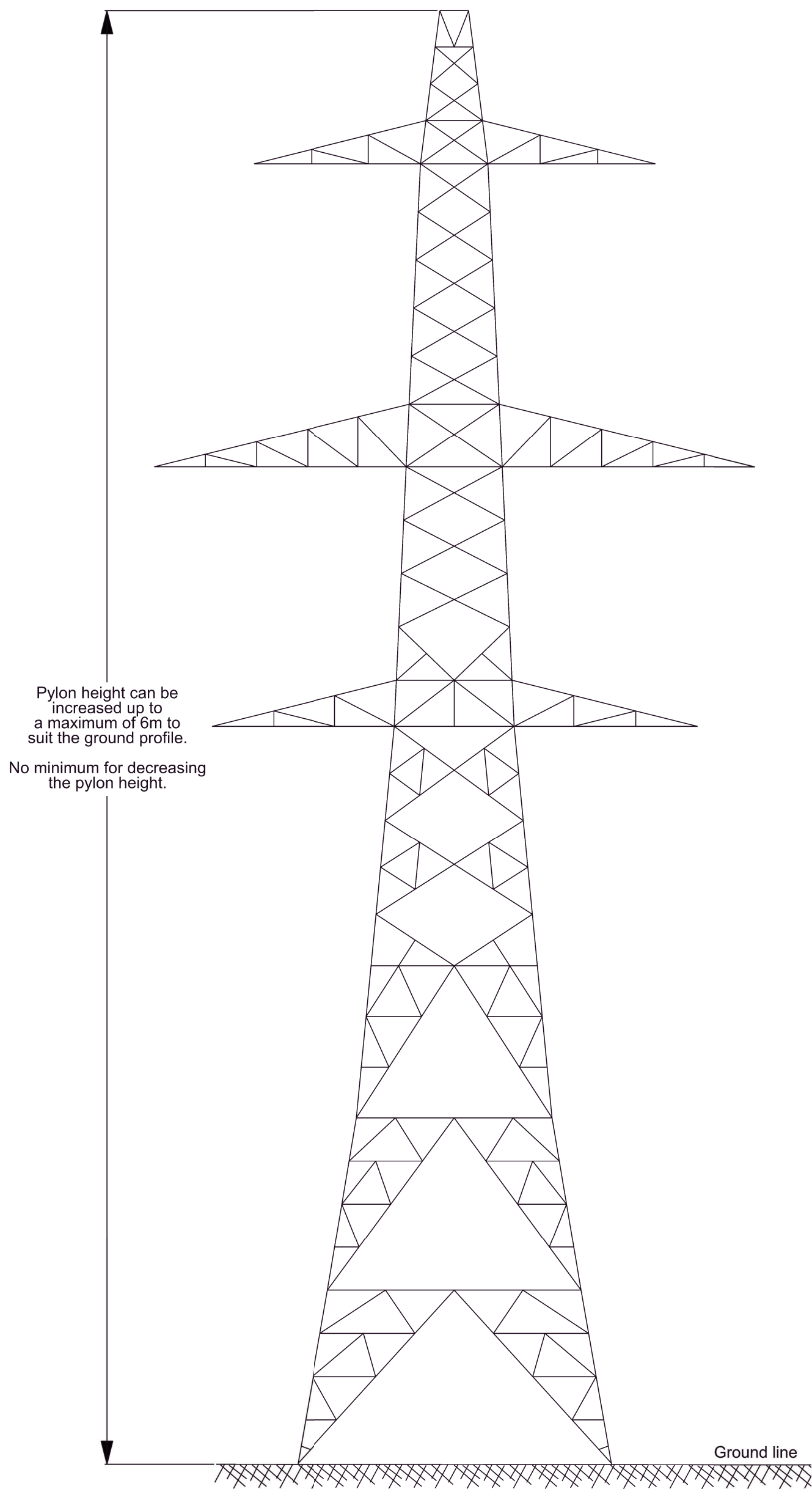
Position of outer overhead
line conductor in condition
of maximum swing

Notes

- These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
- For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
- All dimensions are approximate and indicated in metres (m) unless noted otherwise.
- This drawing shows the limits of deviation of pylons from their indicative locations. Pylons may be moved subject to these limits where local constraints are identified prior to or during construction.



Lateral limits of deviation
L6(m) D STD HT key diagram
showing lateral limit of deviation



Vertical limits of deviation
L6(m) D STD HT key diagram
showing vertical limit of deviation

A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE OVERHEAD LINE
LIMITS OF DEVIATION
REGULATION 5(2)(o)
SHEET 1 OF 1

nationalgrid

PINS Application Number					
EN020027					
National Grid Drawing Reference					
AENC-LSTC-ENG-DWG-0004-1					
Scale	Sheet Size	Sheet	Issue		
N.T.S	A1	SHEET 1 OF 1	A		

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L12 SERIES TYPE PYLON WIREFRAME DRAWING ZONE OF INFLUENCE
REGULATION 5(2)(o)
SHEET 1 OF 7

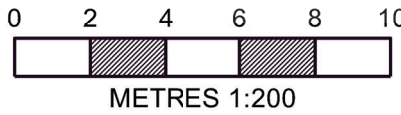
Application Document 2.6.2

Legend

--- Zone of influence

Notes

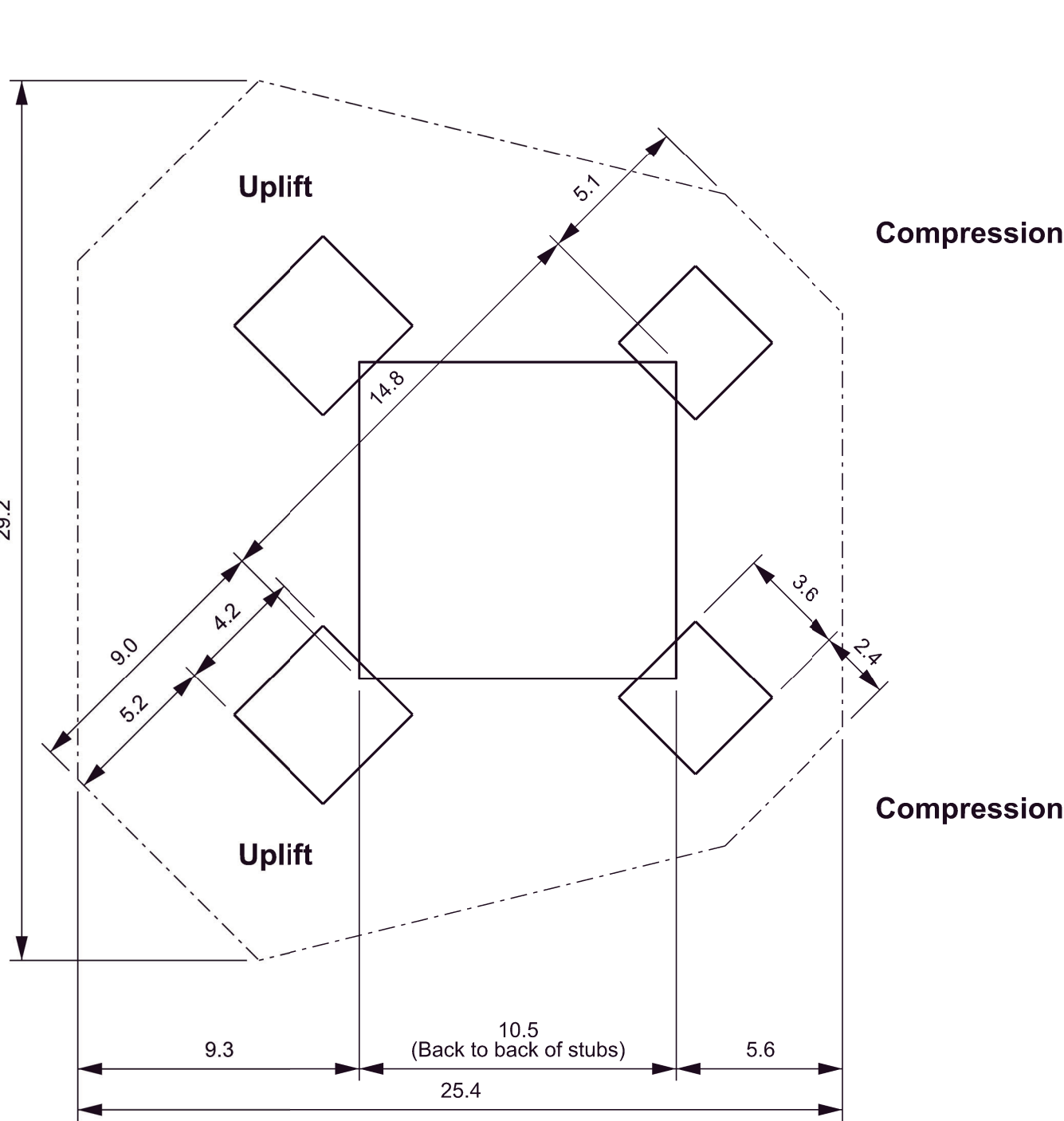
1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. Pylon leg spacing at ground level assumes level ground conditions.
6. The arrangement and foundations shown are for illustrative purposes only. The design may vary depending on site conditions, detail design, and the contractor's requirements.



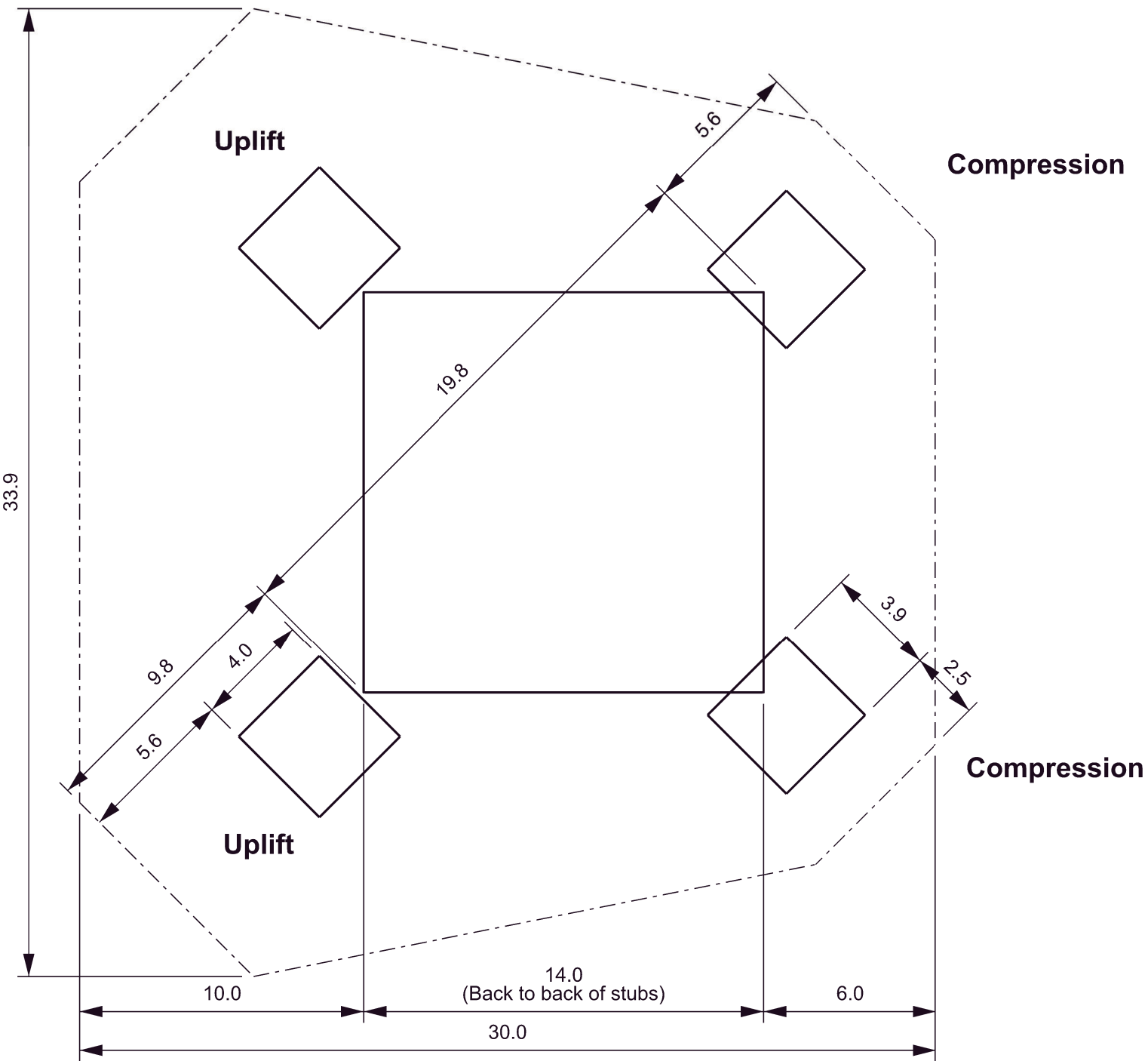
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L12 SERIES
TYPE PYLON WIREFRAME DRAWING
ZONES OF INFLUENCE
REGULATION 5(2)(o)
SHEET 1 OF 7

nationalgrid

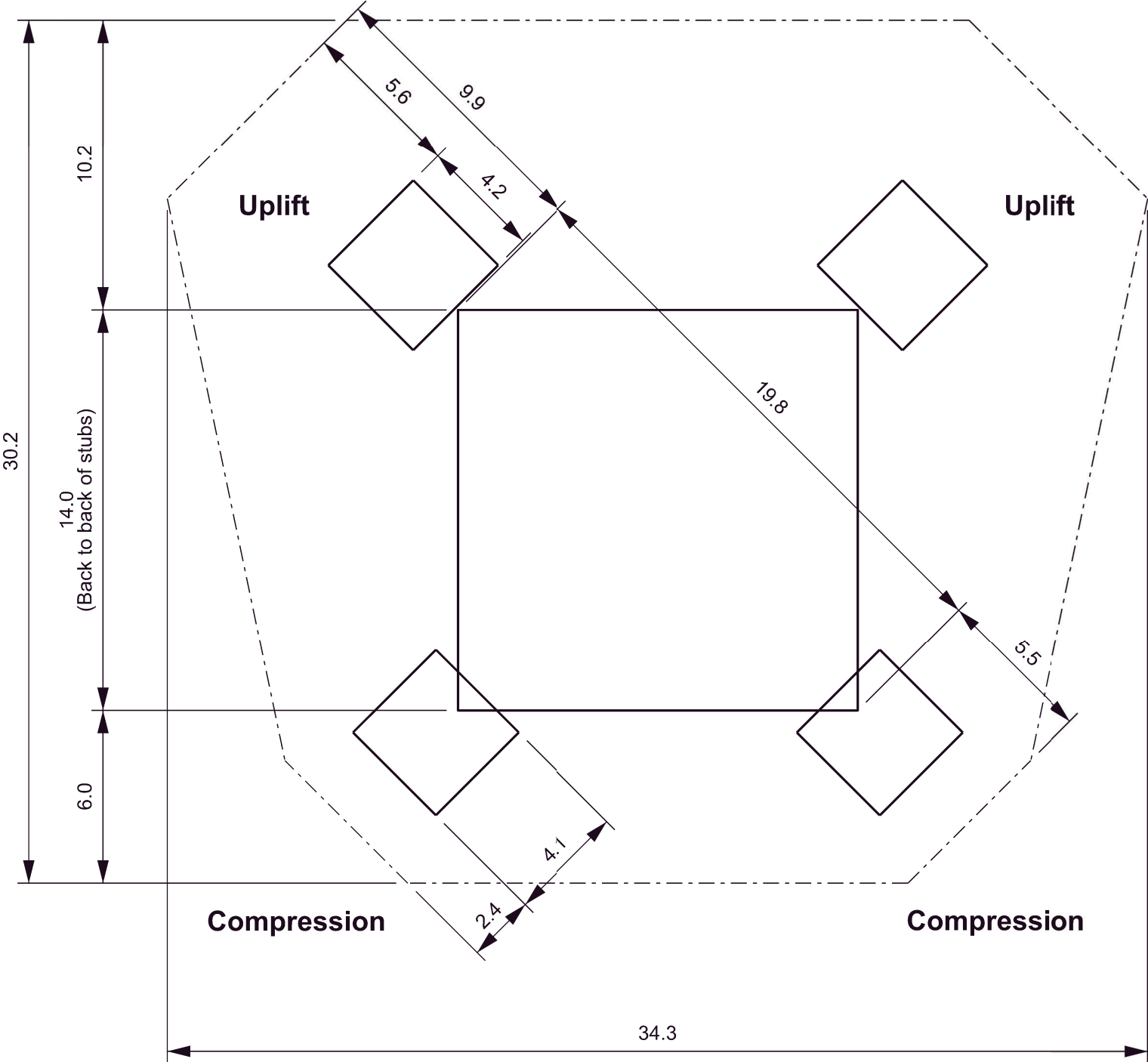
<u>PINS Application Number</u>		ENC20027	
<u>National Grid Drawing Reference</u>			
AENC-LSTC-ENG-DWG-0004-2			
<u>Scale</u>	<u>Sheet Size</u>	<u>Sheet</u>	<u>Issue</u>
1:200	A1	SHEET 1 OF 7	A



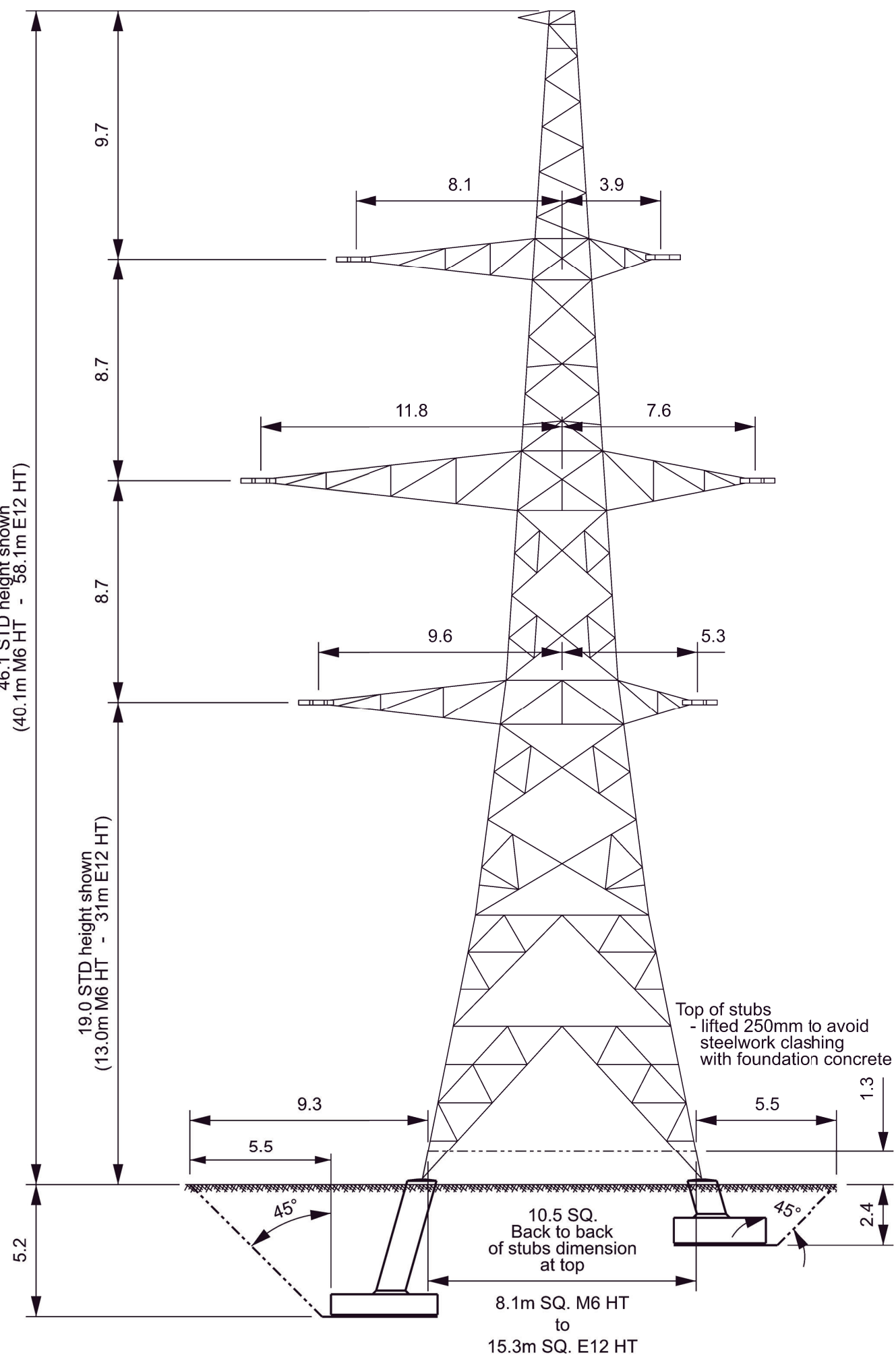
L12 D55 STD
Zone of influence - plan view



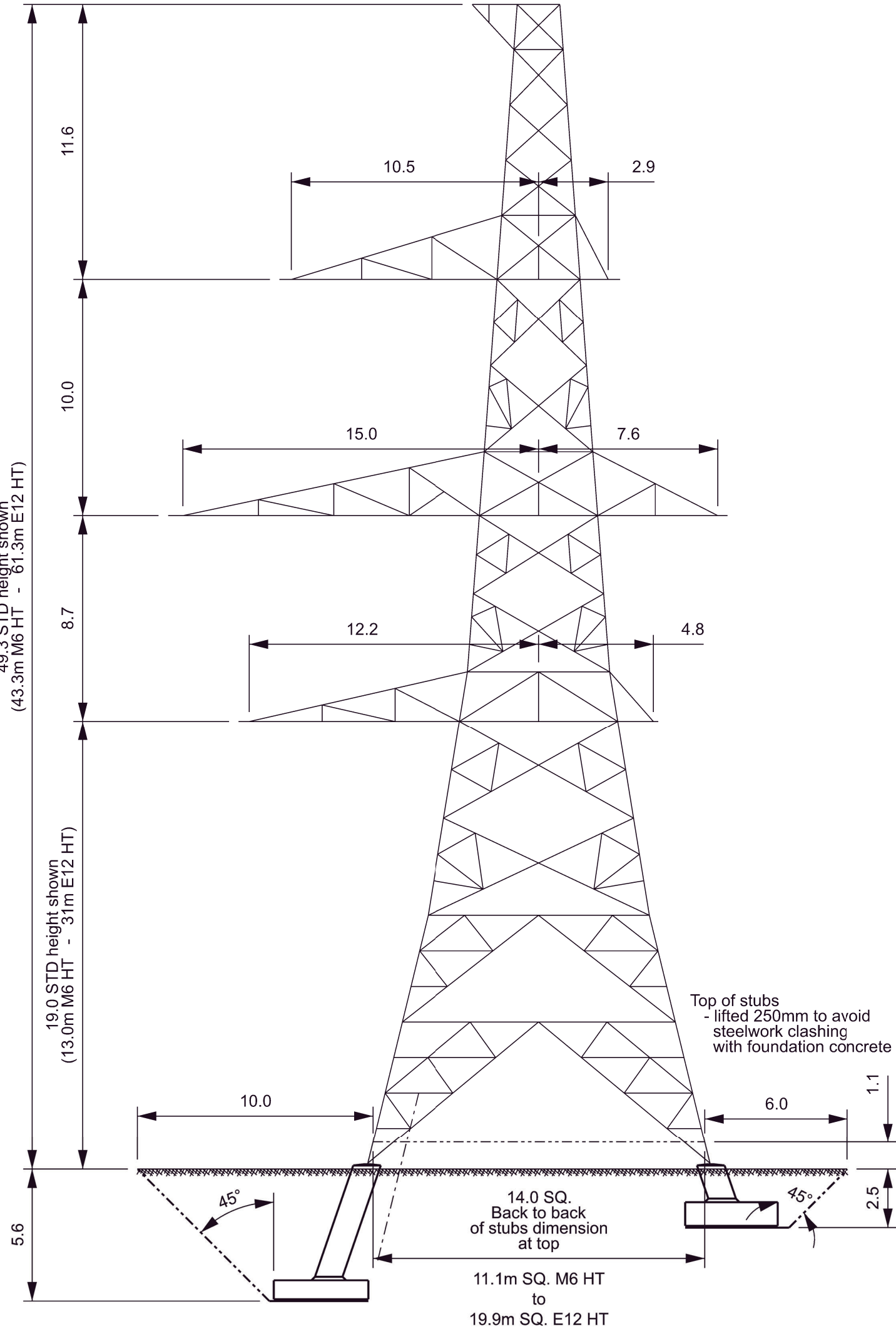
L12 D90 STD
Zone of influence - plan view



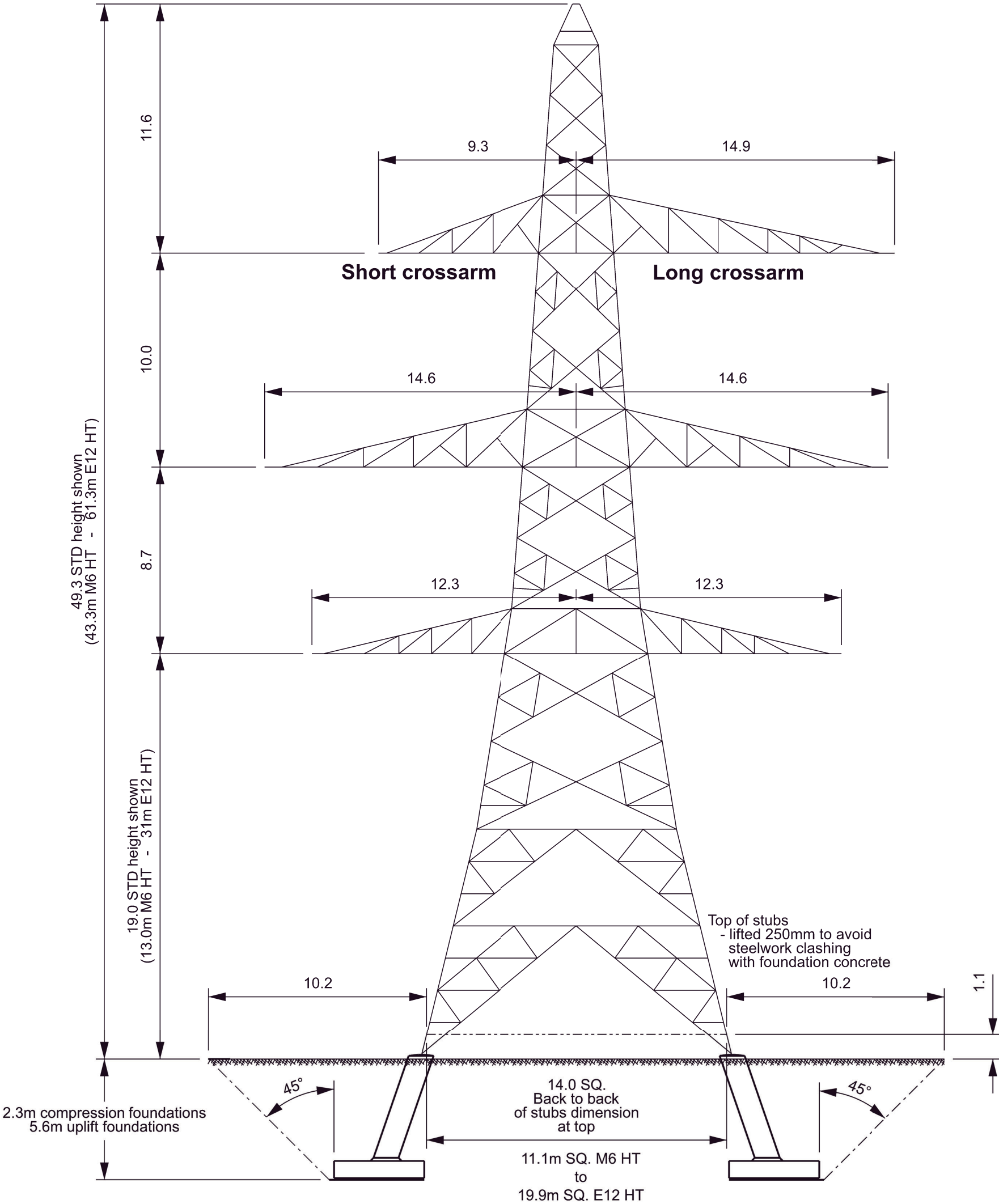
L12 DT STD
Zone of influence - plan view



L12 D55 STD



L12 D90 STD



L12 DT STD
Uplift type foundations shown only

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L6 SERIES TYPE PYLON WIREFRAME DRAWING ZONE OF INFLUENCE
REGULATION 5(2)(o)
SHEET 2 OF 7

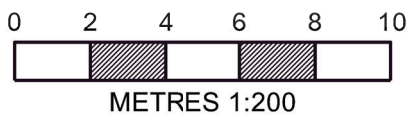
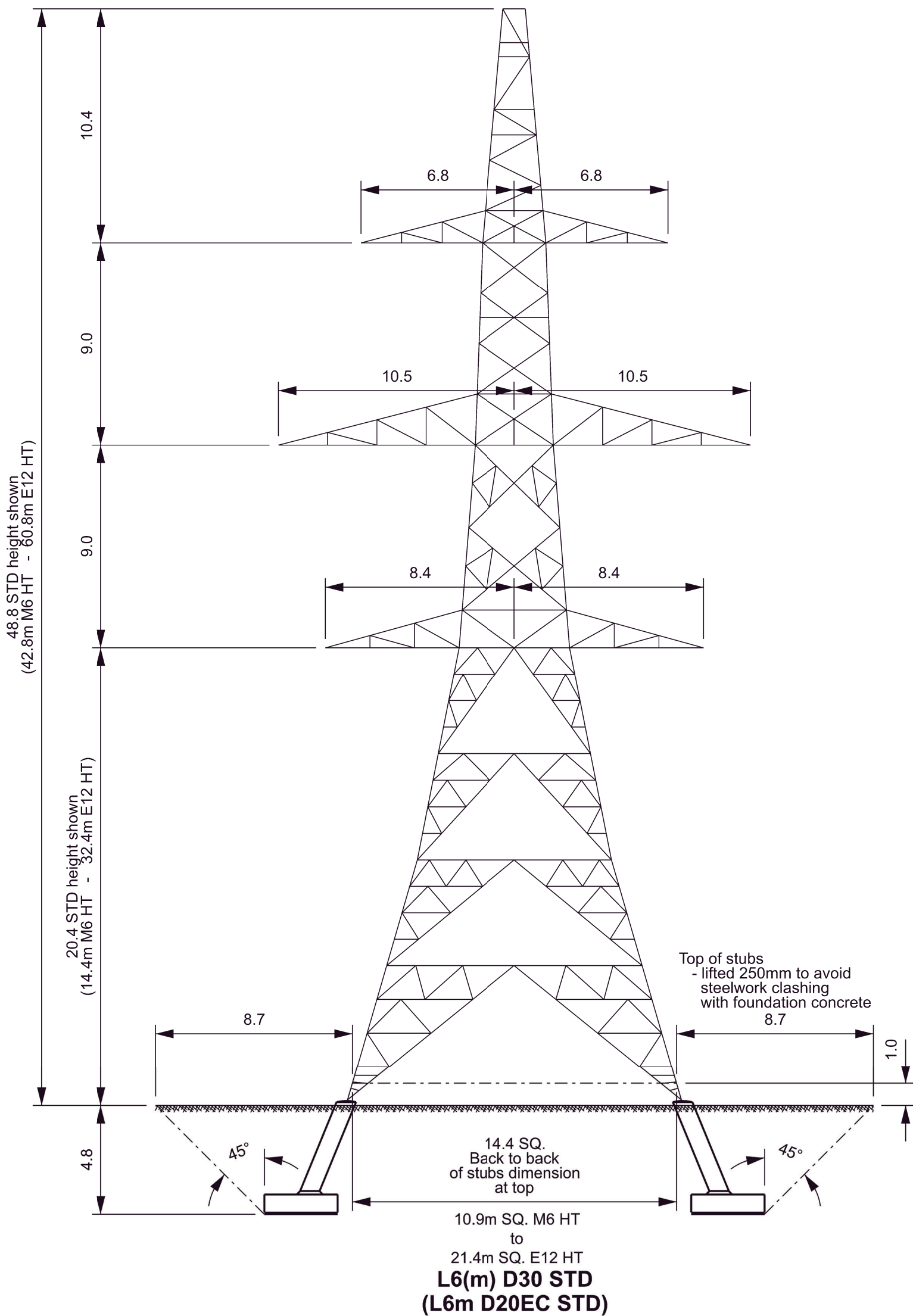
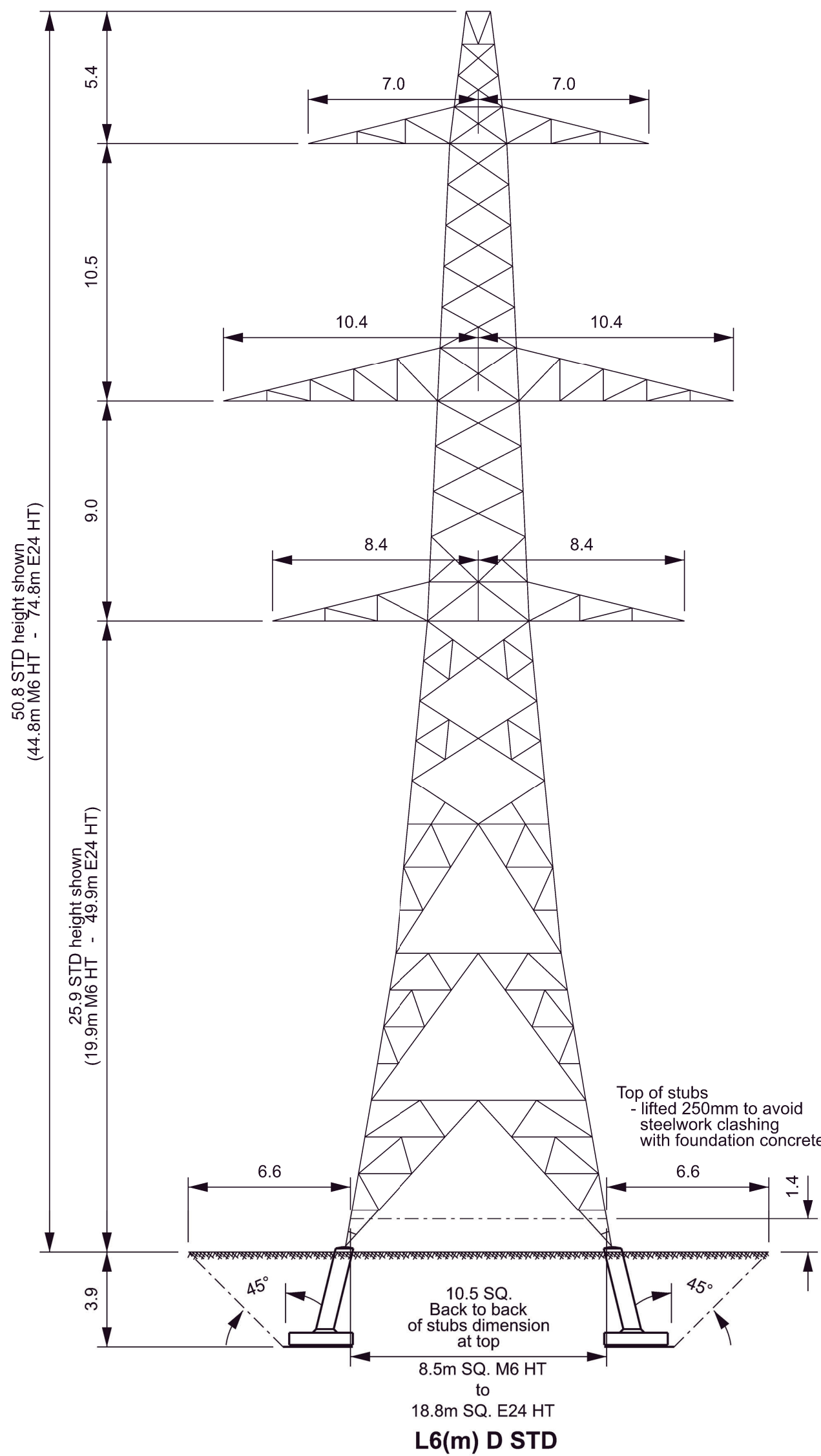
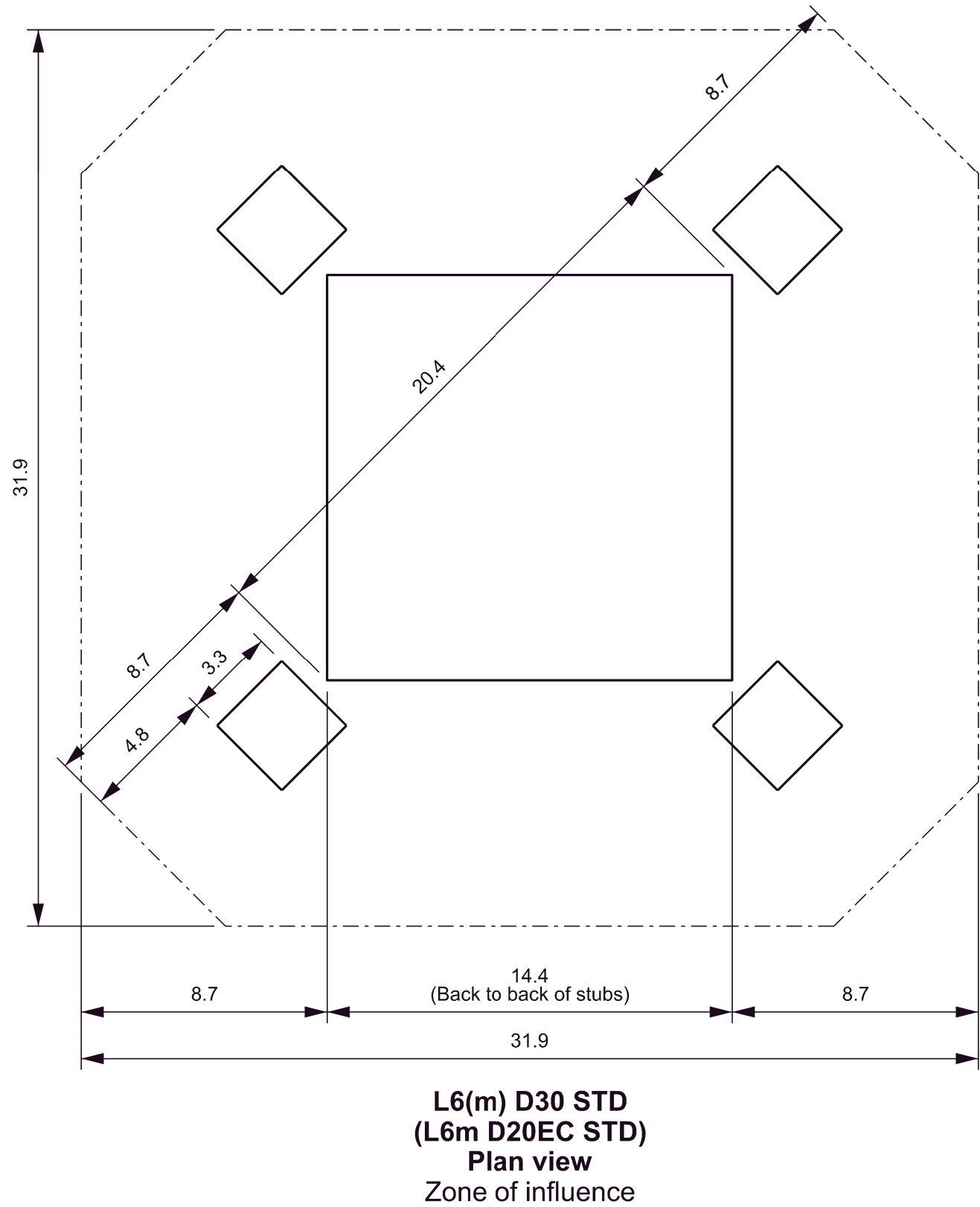
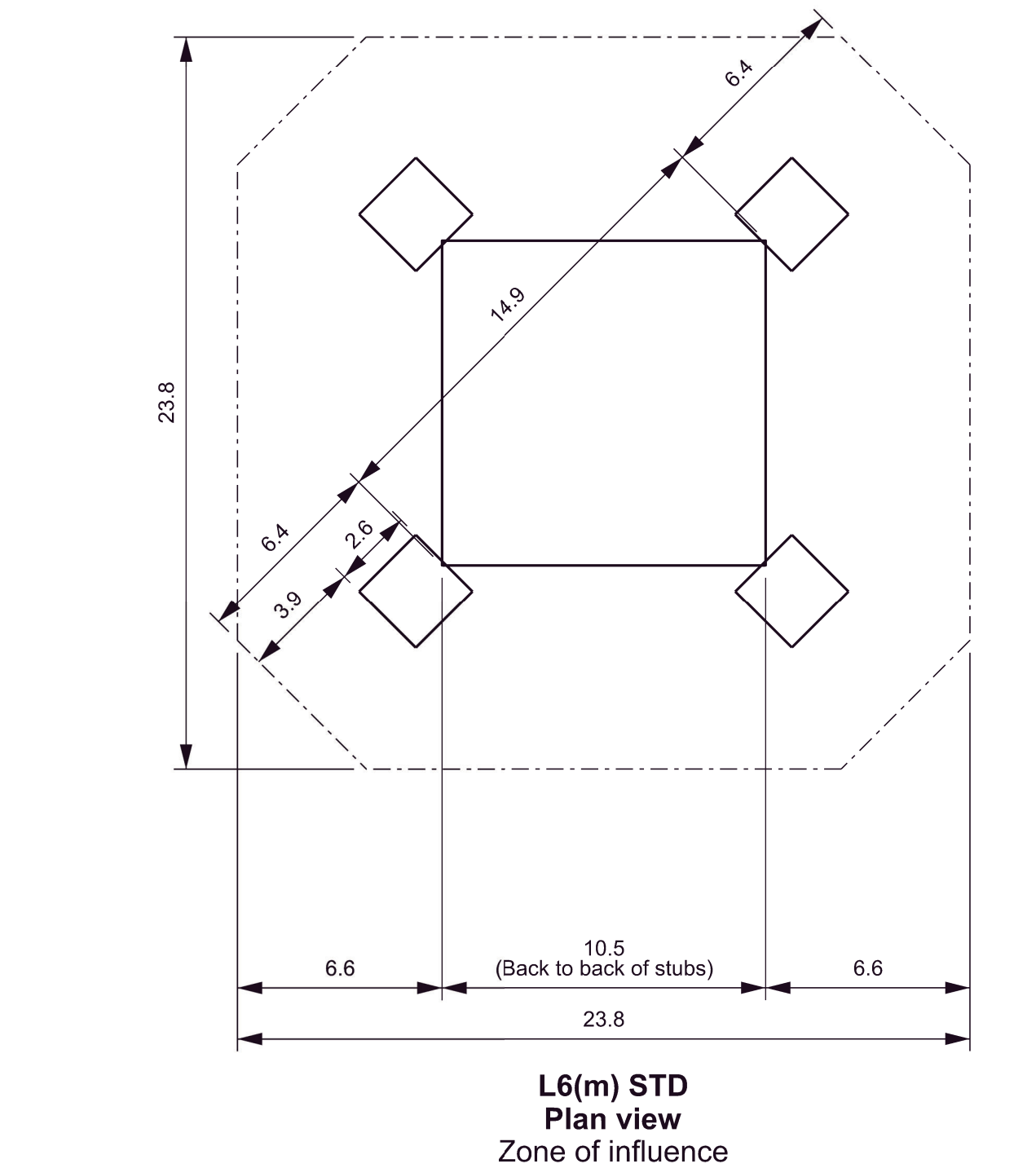
Application Document 2.6.2

Legend

--- Zone of influence

Notes

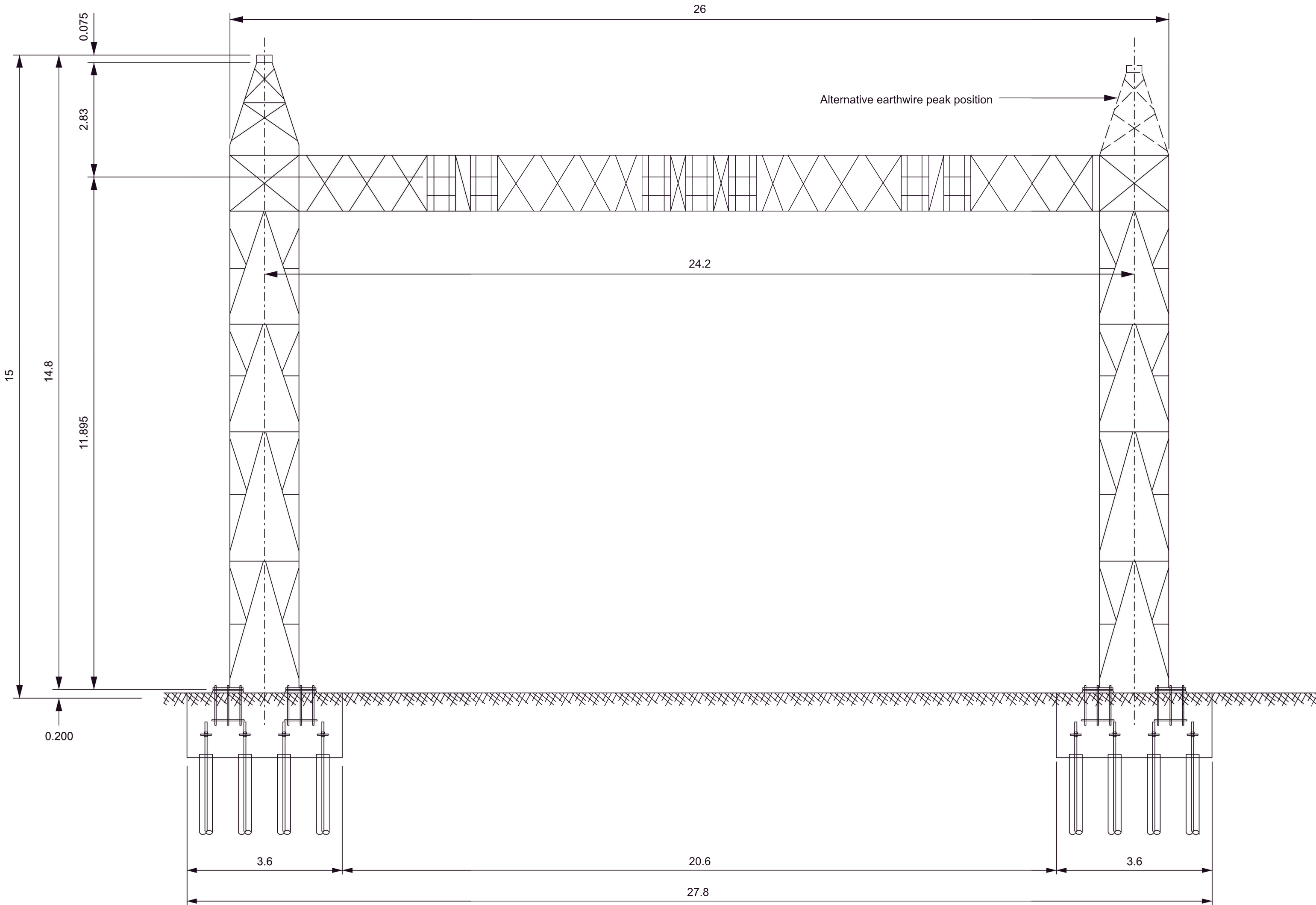
1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. Pylon leg spacing at ground level assumes level ground conditions.
6. The arrangement and foundations shown are for illustrative purposes only. The design may vary depending on site conditions, detail design, and the contractor's requirements.



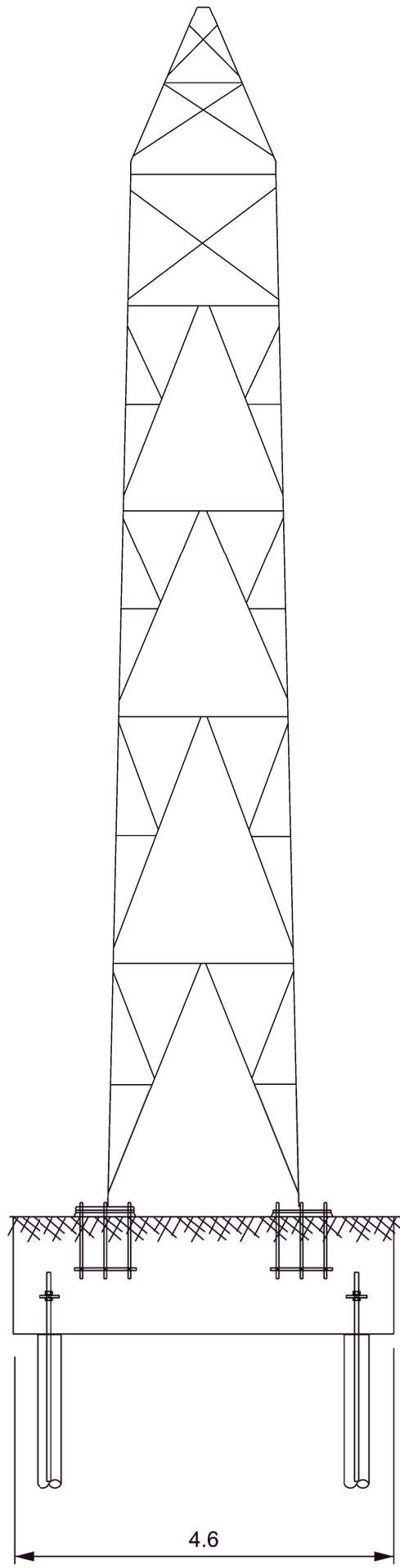
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L6 SERIES
TYPE PYLON WIREFRAME DRAWING
ZONES OF INFLUENCE
REGULATION 5(2)(o)
SHEET 2 OF 7

nationalgrid

PINS Application Number		ENC20027	
National Grid Drawing Reference		AENC-LSTC-ENG-DWG-0004-2	
Scale	Sheet Size	Sheet	Issue
1:200	A1	SHEET 2 OF 7	A



Front elevation of full line tension gantry



Side elevation of full line tension gantry

Notes

- 1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
- 2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
- 3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
- 4. Gantry leg spacing at ground level assumes level ground conditions.
- 5. The arrangement and foundations shown are for illustrative purposes only. The design may vary depending on site conditions, detail design, and the contractor's requirements.

A	AUG-2025	For DCO submission	BD	BK	KR

Issue	Date	Remarks	Drawn	Checked	Approved
-------	------	---------	-------	---------	----------

Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE FULL
LINE TENSION GANTRY
REGULATION 5(2)(o)
SHEET 3 OF 7

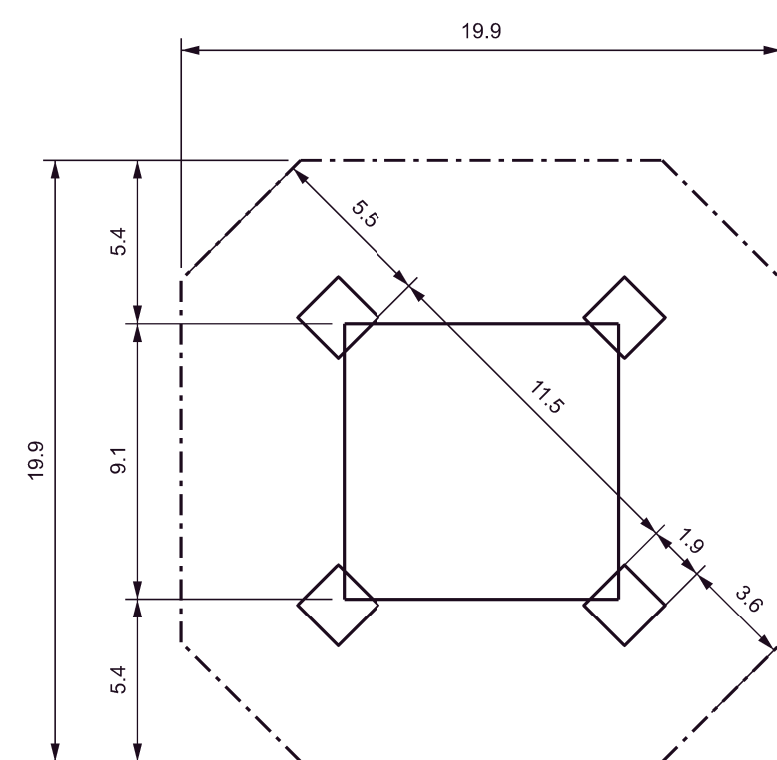
nationalgrid

PINS Application Number	ENC20027
-------------------------	----------

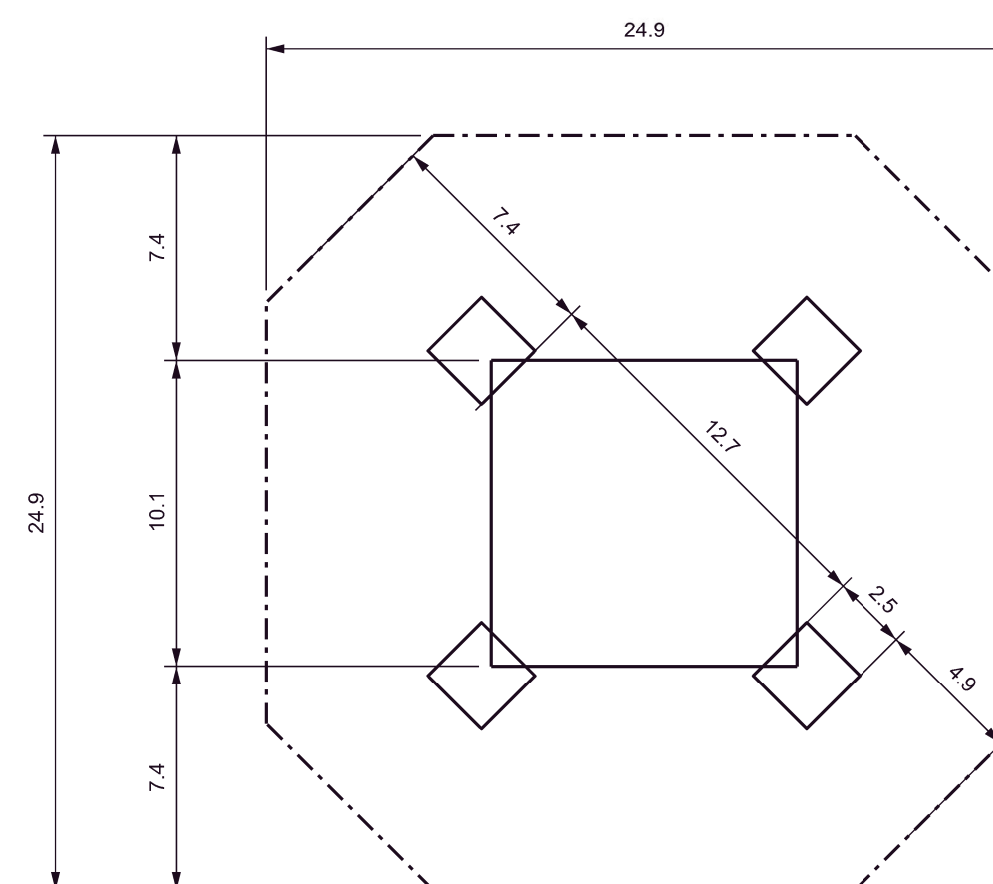
National Grid Drawing Reference	AENC-LSTC-ENG-DWG-0004-2
---------------------------------	--------------------------

Scale	Sheet Size	Sheet	Issue
N.T.S	A1	SHEET 3 OF 7	A

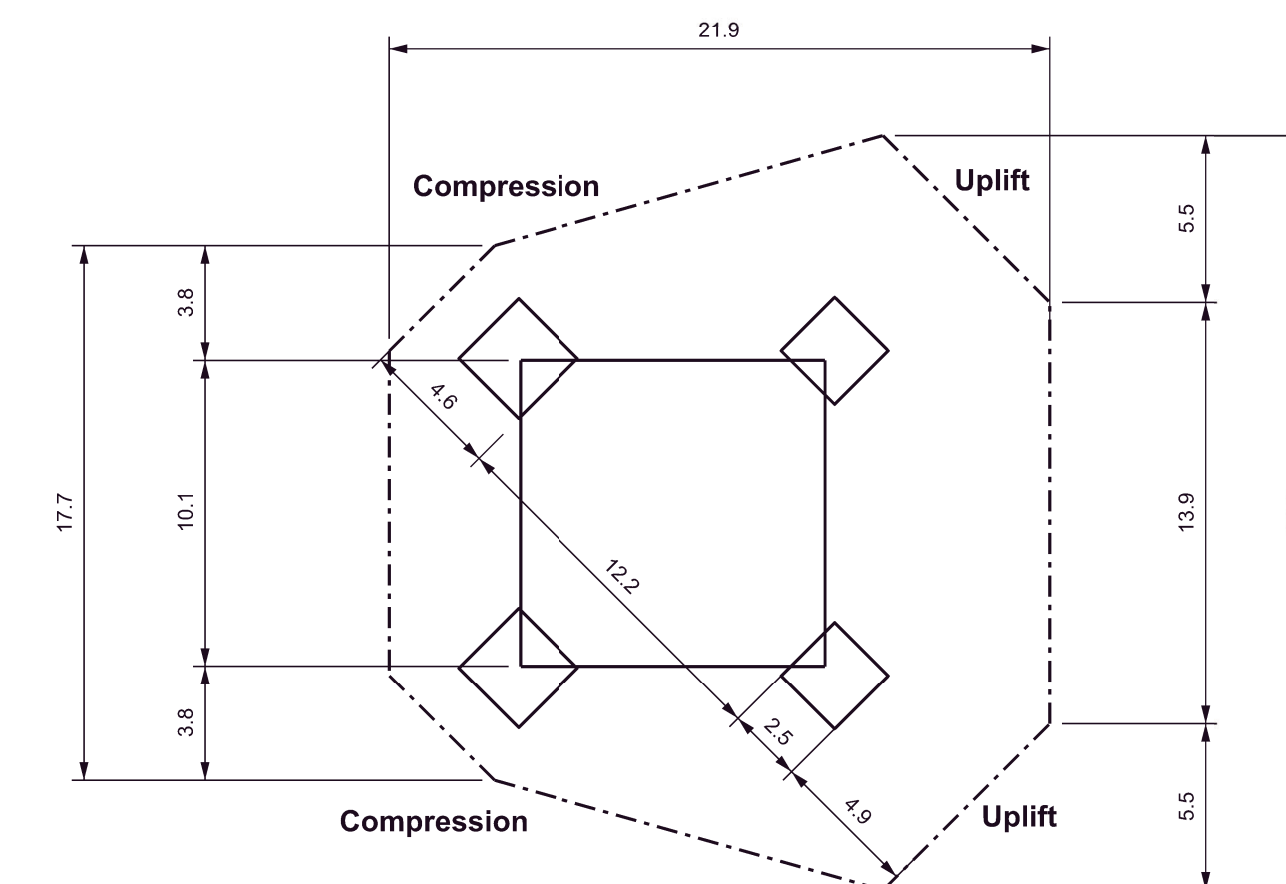
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L13 LOW HEIGHT SERIES TYPE PYLON WIREFRAME DRAWING
REGULATION 5(2)(o)
SHEET 4 OF 7



L13 tower type LD
Zone of influence - plan view



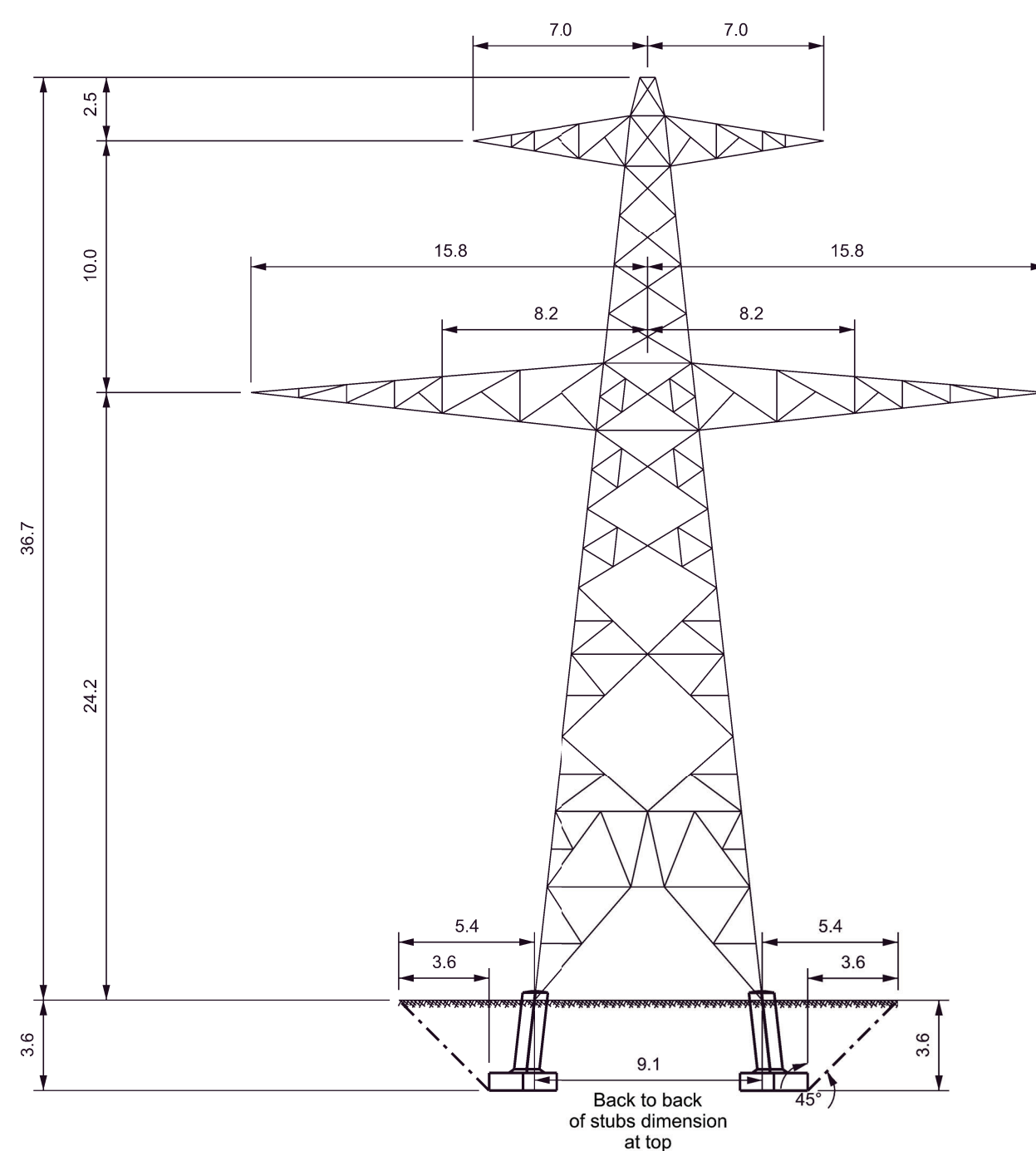
L13 tower type LD30 (0-10)
Zone of influence - plan view



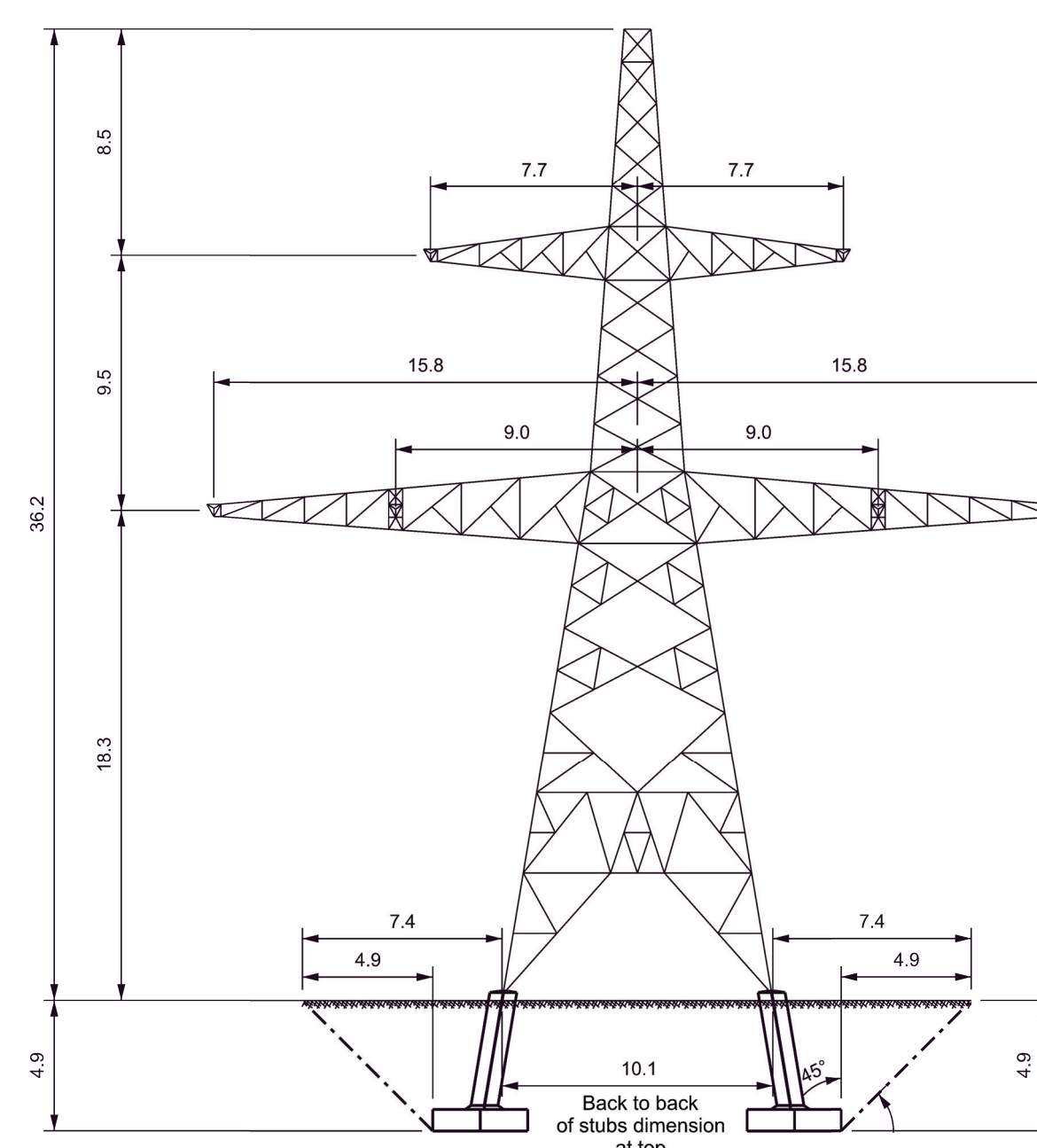
L13 tower type LD30 (10-30)
Zone of influence - plan view

Notes

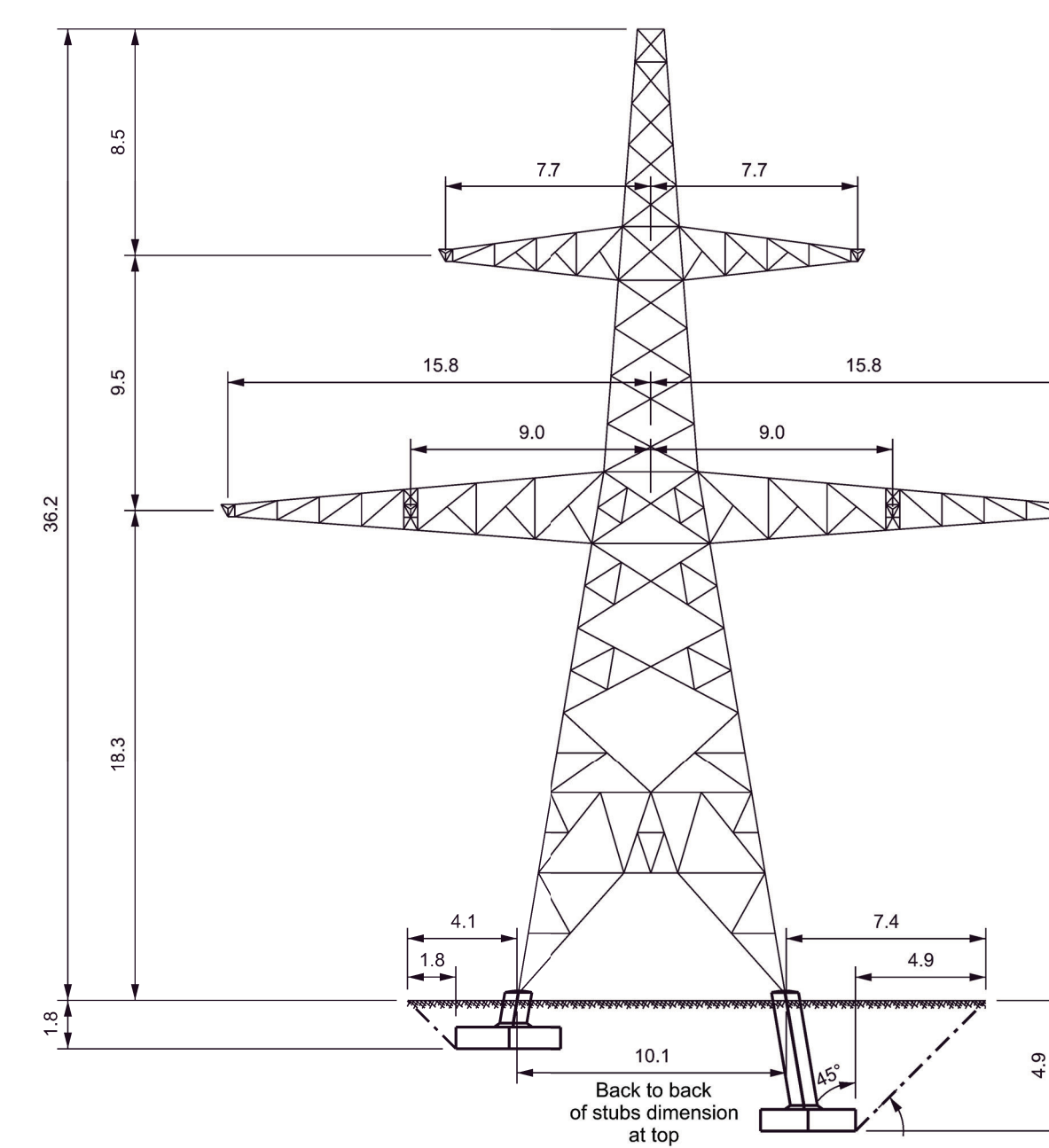
1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. Pylon leg spacing at ground level assumes level ground conditions.
6. The arrangement and foundations shown are for illustrative purposes only. The design may vary depending on site conditions, detail design, and the contractor's requirements.



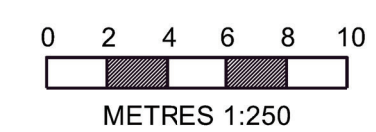
L13 tower type LD



L13 tower type LD30 (0-10)



L13 tower type LD30 (10-30)



A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

<u>Title</u>

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L13 SERIES
TYPE PYLON WIREFRAME DRAWING
REGULATION 5(2)(o)
SHEET 4 OF 7

nationalgrid

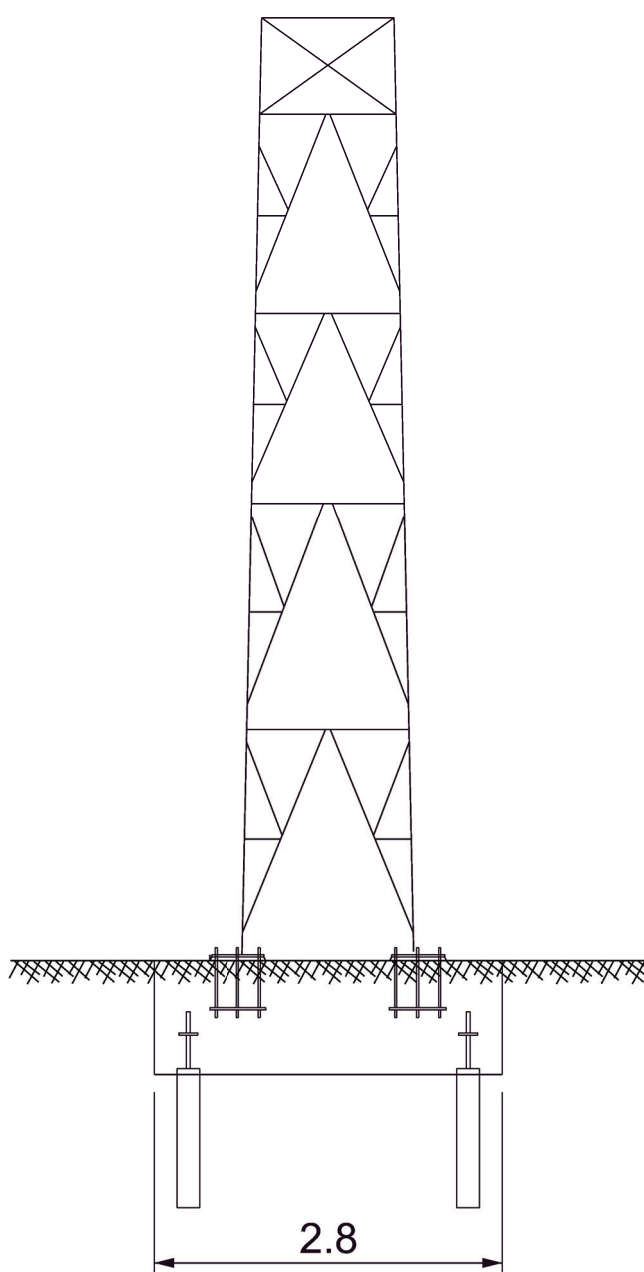
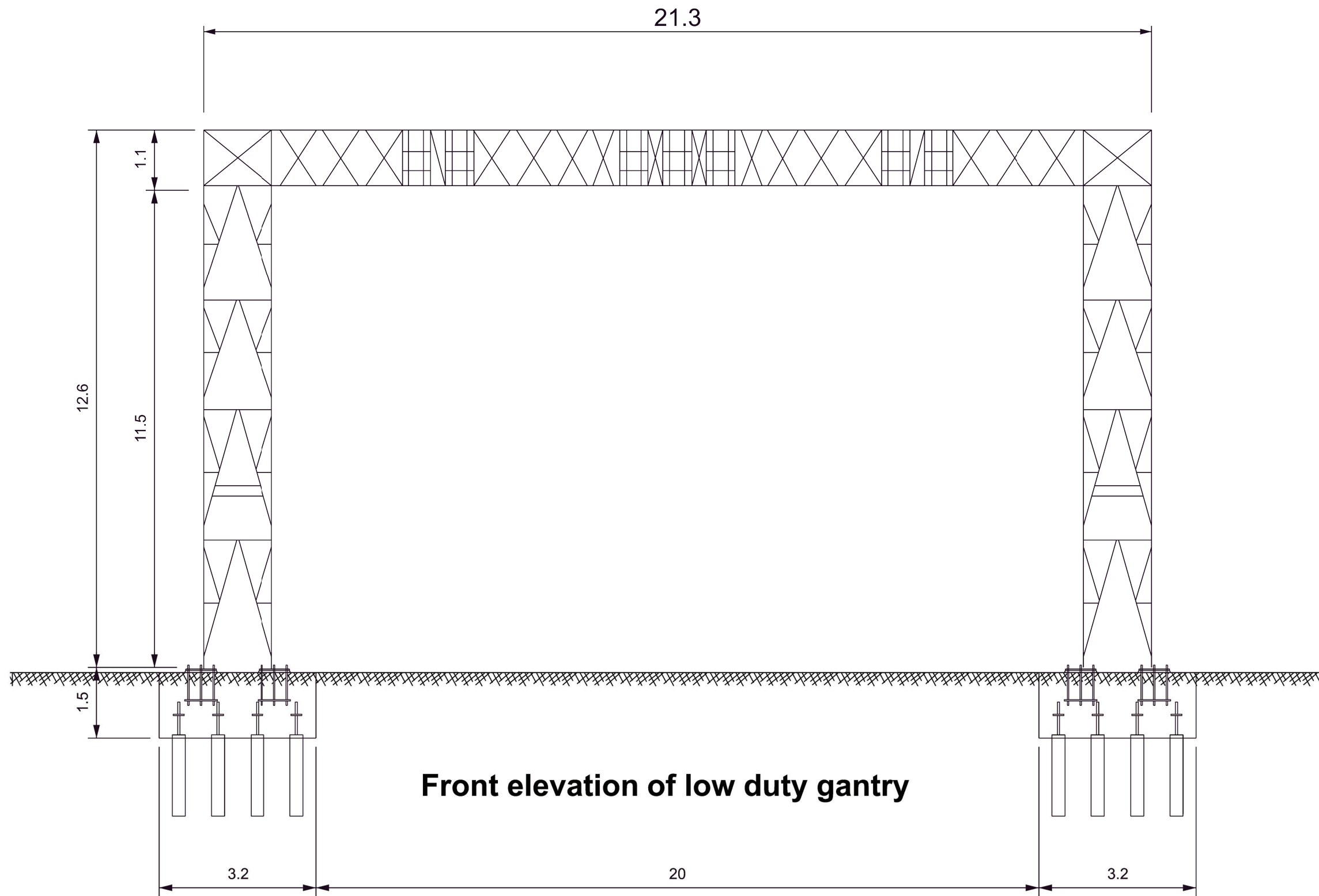
PINS Application Number

EN020027

National Grid Drawing Reference

AENC-LSTC-ENG-DWG-0004-2

<u>Scale</u>	<u>Sheet Size</u>	<u>Sheet</u>	<u>Issue</u>
1:250	A1	SHEET 4 OF 7	A



Notes

1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. Low Duty Gantry leg spacing at ground level assumes level ground conditions.
5. Foundation design is subject to structural analysis.
6. The arrangement and foundations shown are for illustrative purposes only. The design may vary depending on site conditions, detail design, and the contractor's requirements.

A	AUG-2025	For DCO submission	BD	BK	KR

Issue	Date	Remarks	Drawn	Checked	Approved
-------	------	---------	-------	---------	----------

Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE LOW DUTY GANTRY
WIREFRAME DRAWING
REGULATION 5(2)(o)
SHEET 5 OF 7

nationalgrid

PINS Application Number ENC20027

National Grid Drawing Reference
AENC-LSTC-ENG-DWG-0004-2

Scale	Sheet Size	Sheet	Issue
N.T.S	A1	SHEET 5 OF 7	A

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L2 SERIES TYPE TOWERS WIREFRAME DRAWING ZONE OF INFLUENCE
REGULATION 5(2)(o)
SHEET 6 OF 7

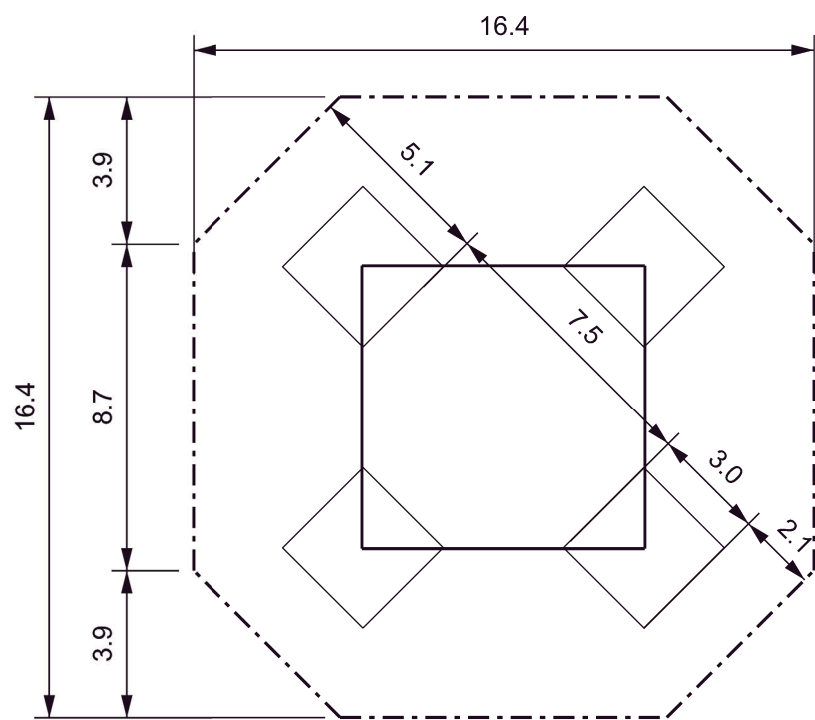
Application Document 2.6.2

Legend

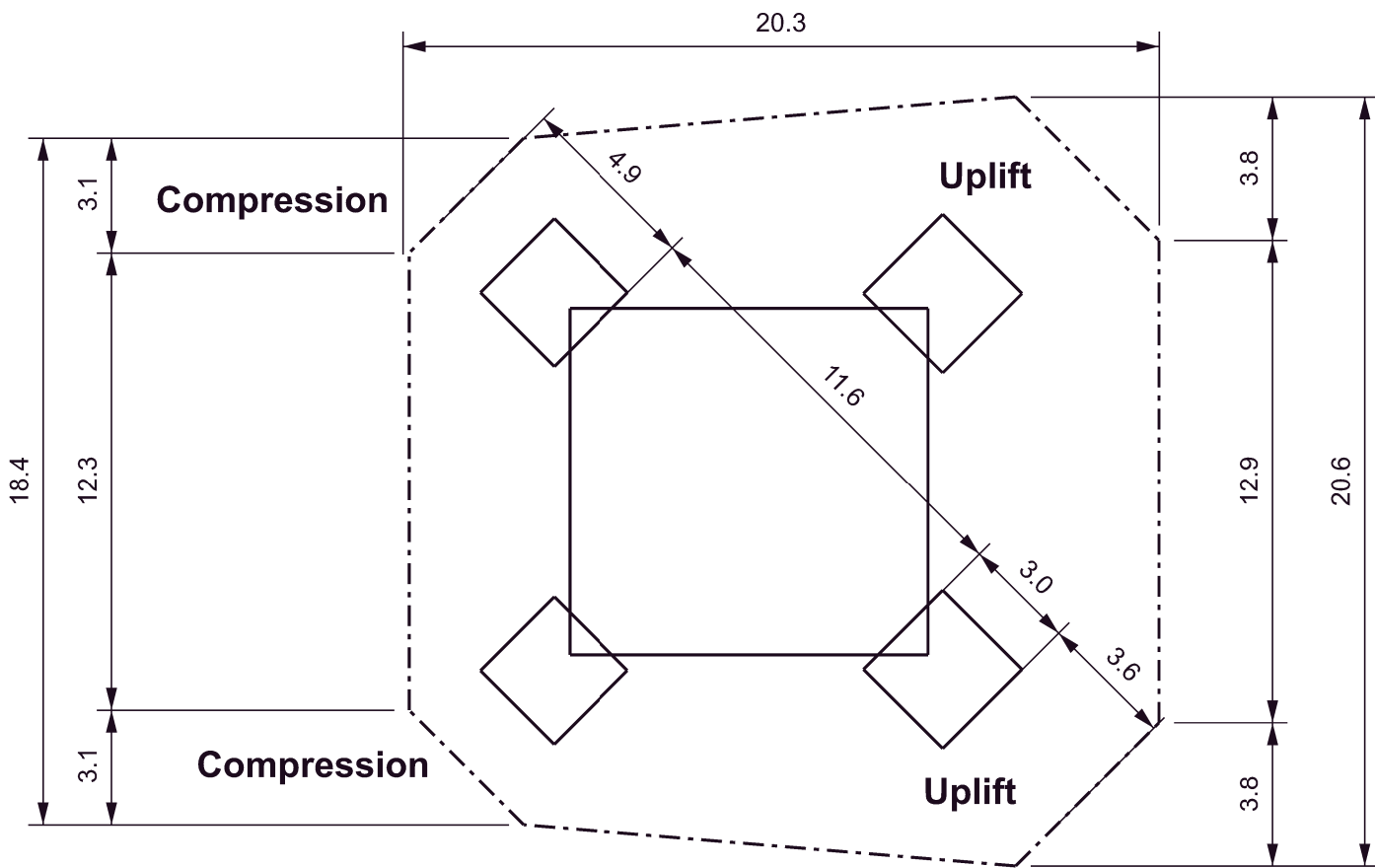
--- Zone of influence

Notes

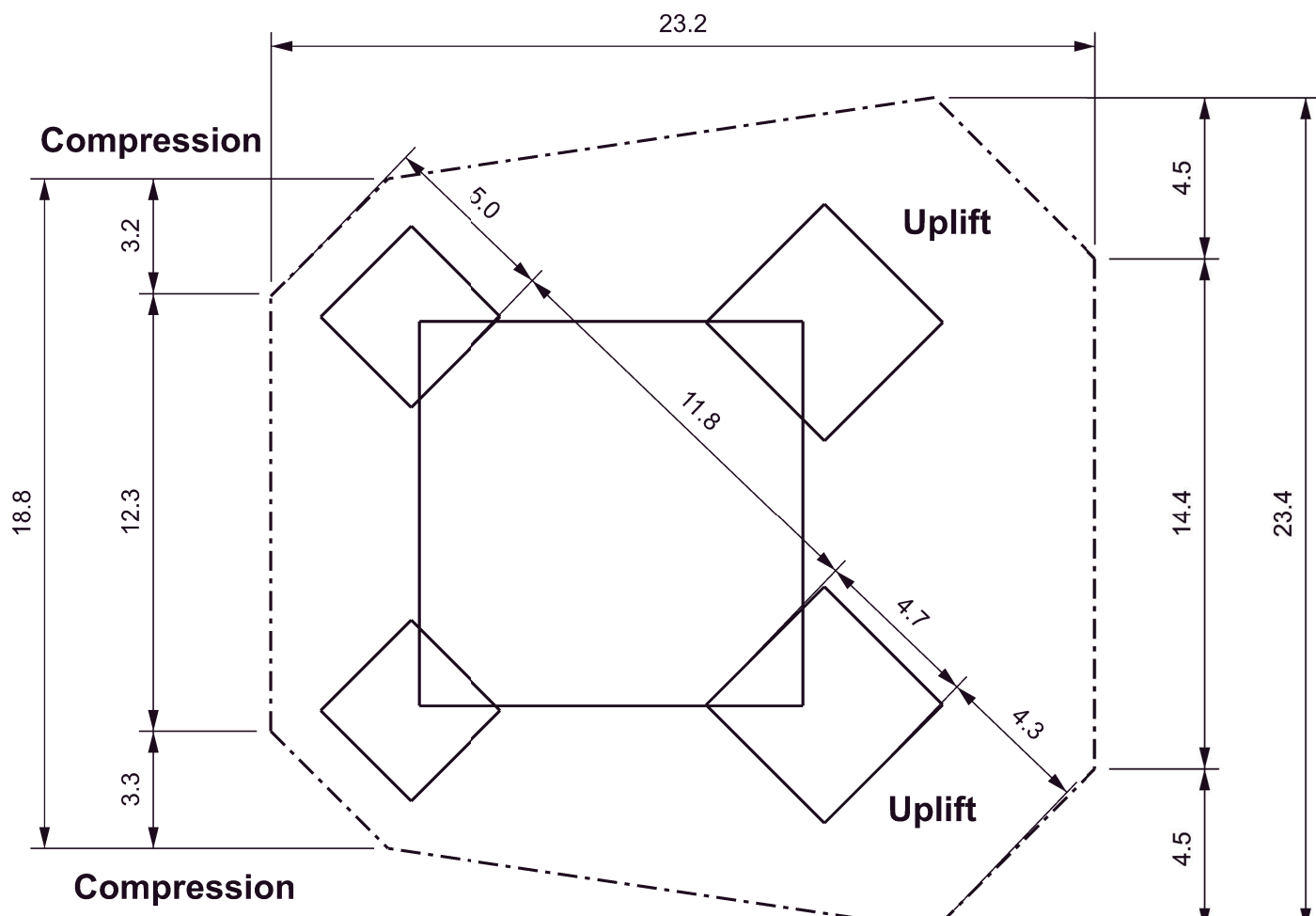
1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. Pylon leg spacing at ground level assumes level ground conditions.
6. The arrangement and foundations shown are for illustrative purposes only. The design may vary depending on site conditions, detail design, and the contractor's requirements.



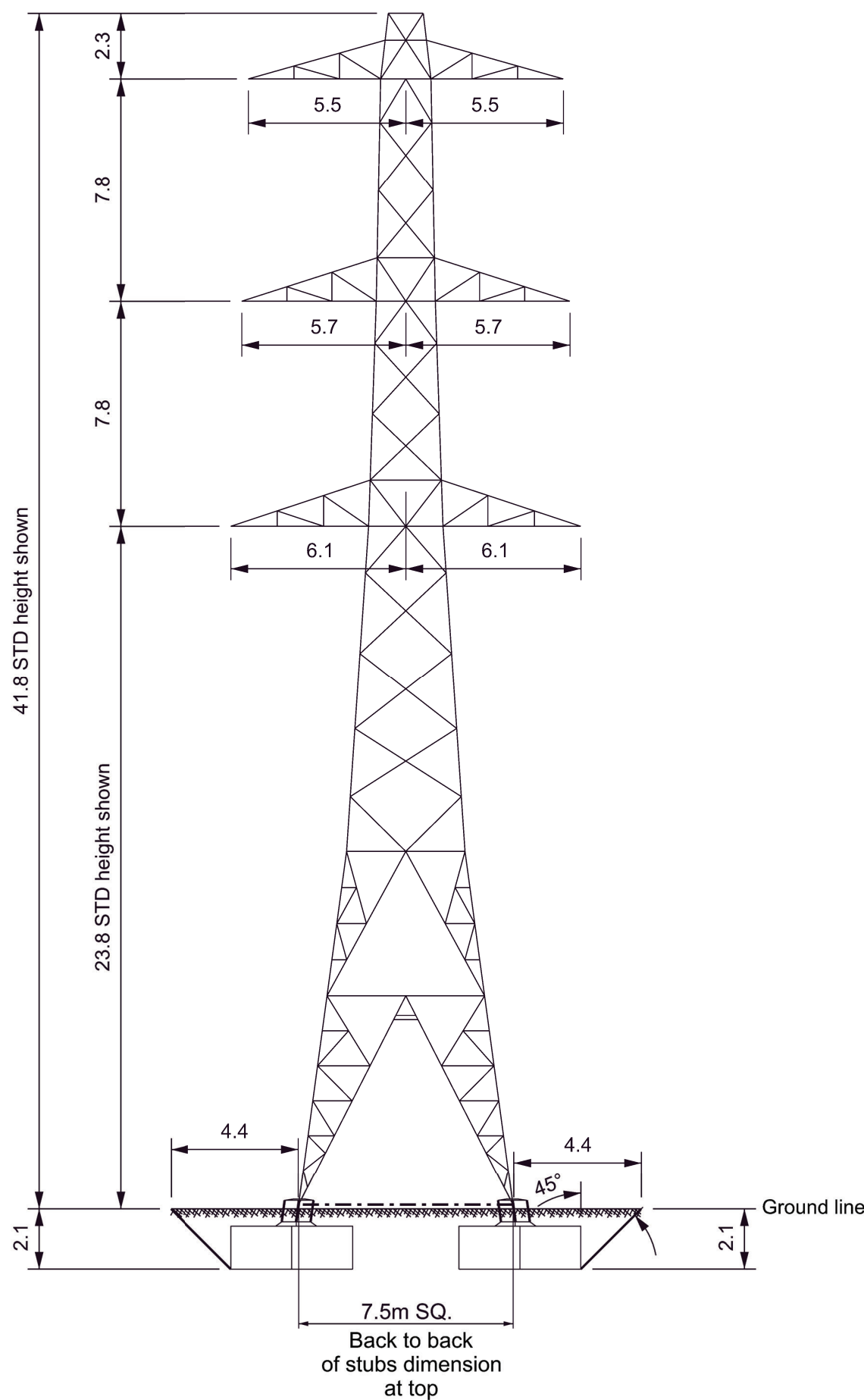
L2 D STD
Zone of influence - plan view



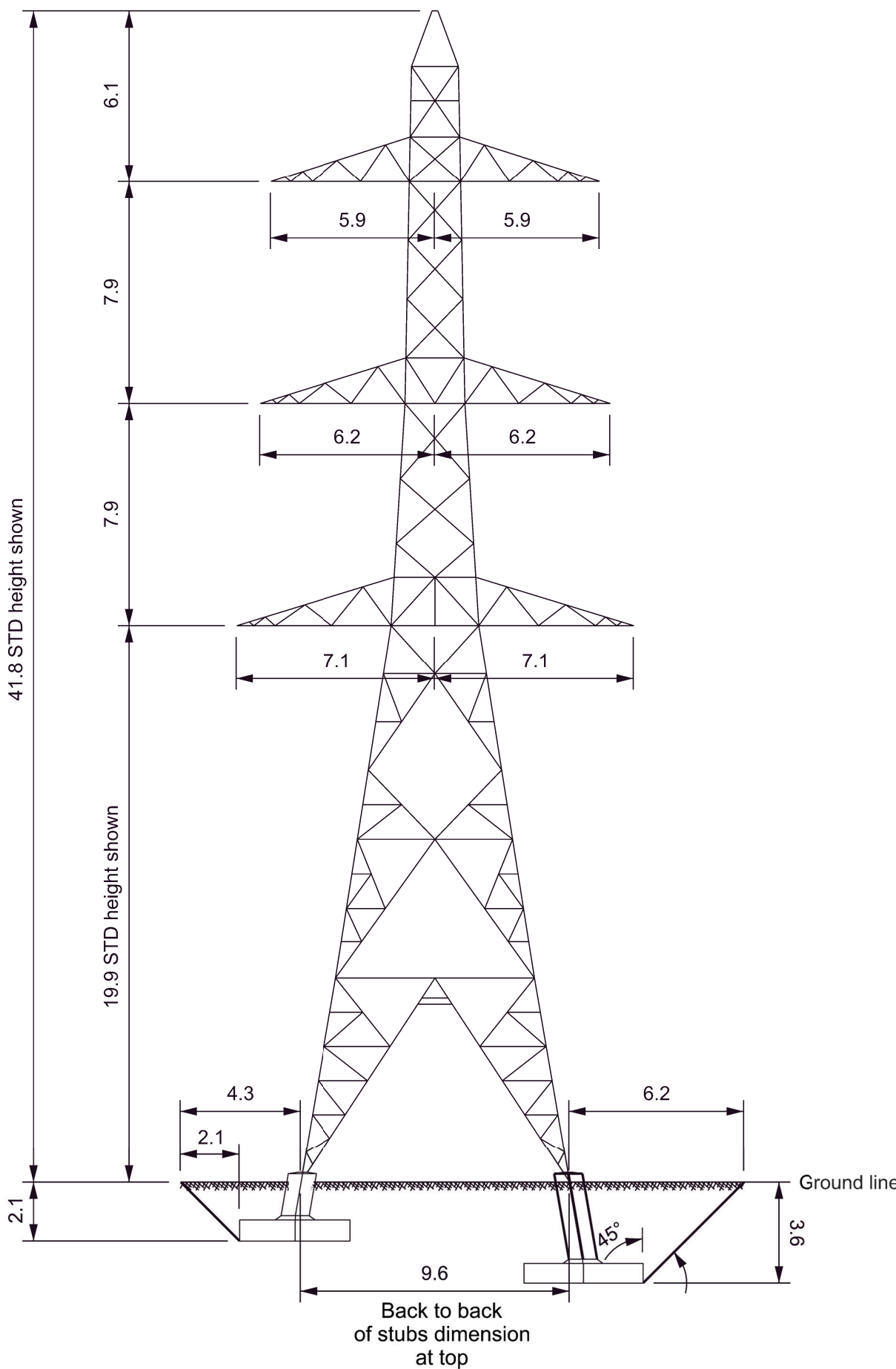
L2 D30 STD
Zone of influence - plan view



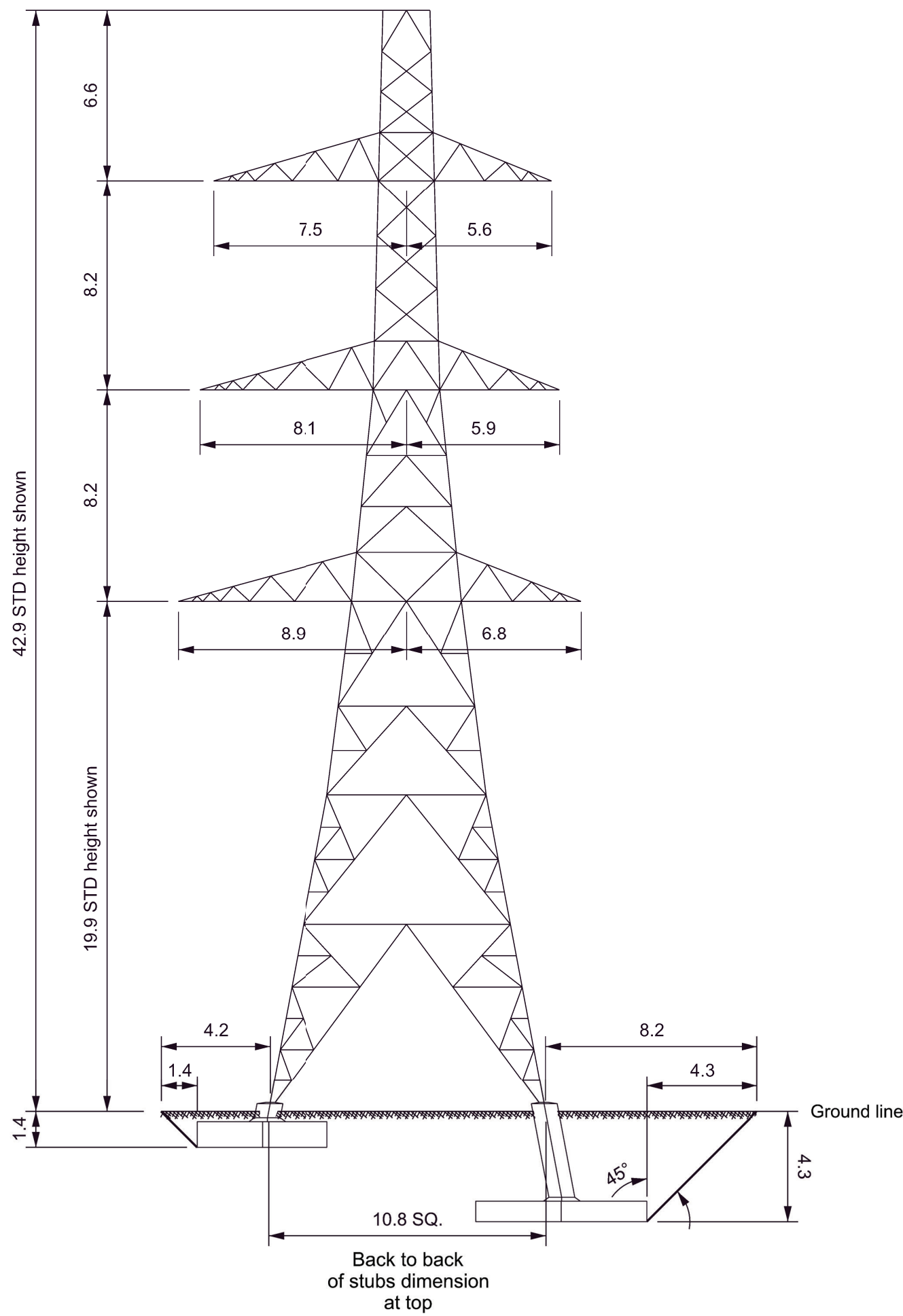
L2 D60 STD
Zone of influence - plan view



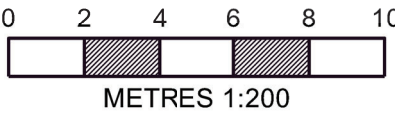
L2 D STD



L2 D30 STD



L2 D60 STD



A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

Title
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L2 SERIES
TYPE PYLON WIREFRAME DRAWING
ZONES OF INFLUENCE
REGULATION 5(2)(o)
SHEET 6 OF 7

nationalgrid

PINS Application Number

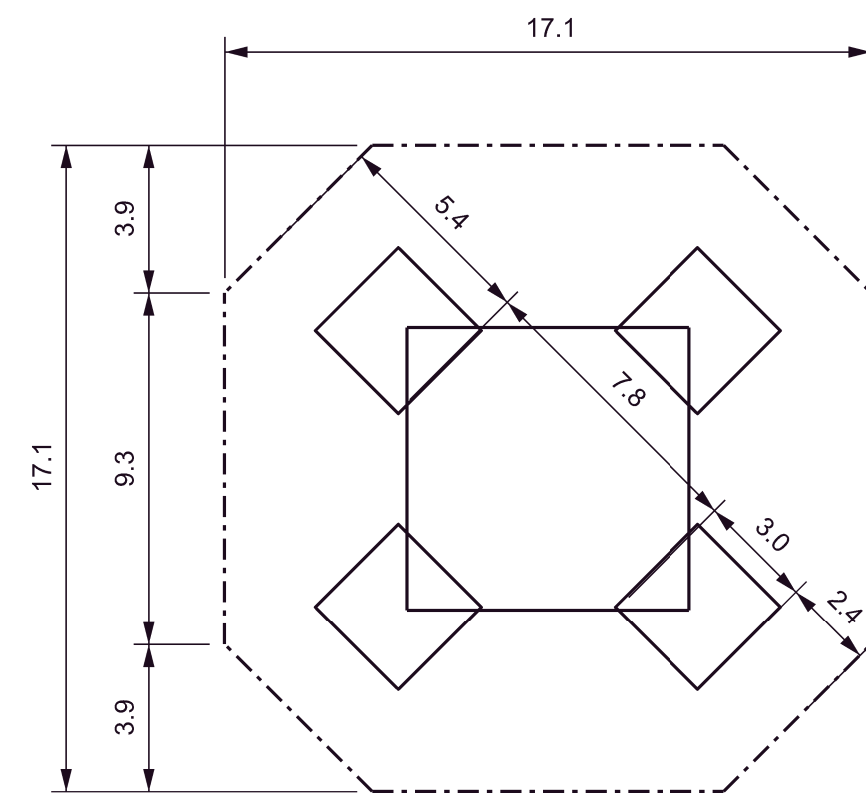
ENC20027

National Grid Drawing Reference

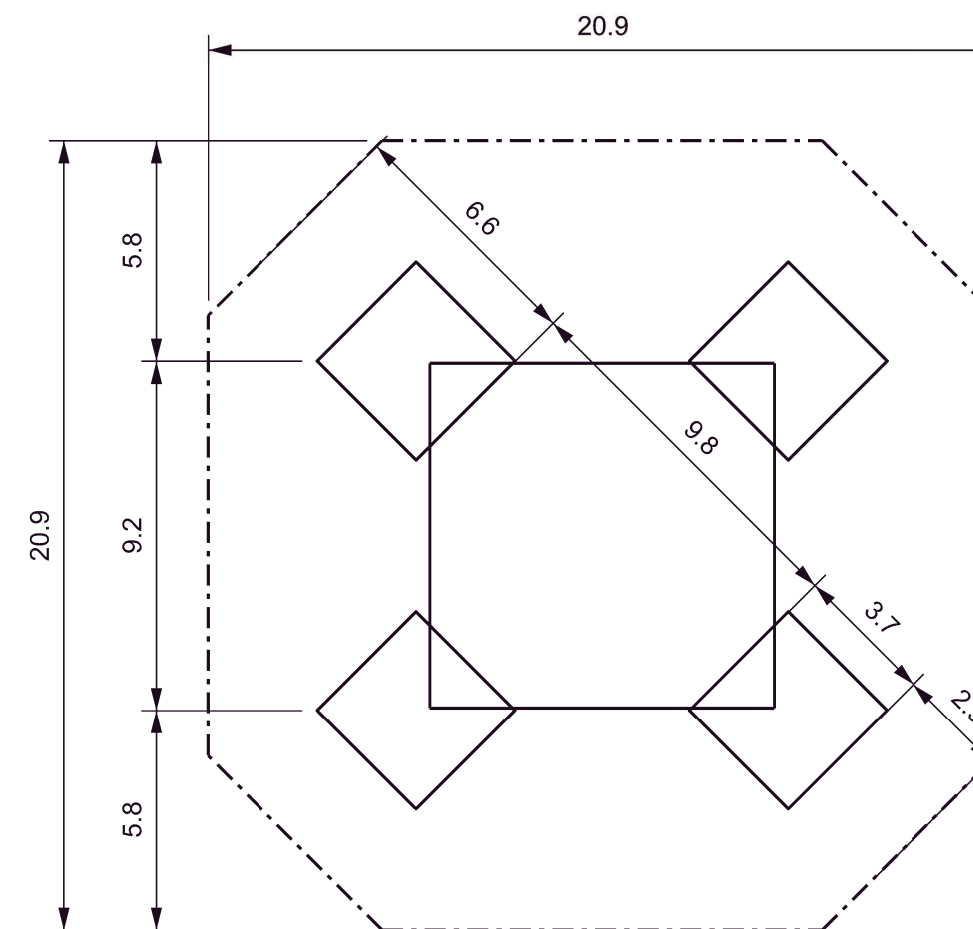
AENC-LSTC-ENG-DWG-0004-2

Scale	Sheet Size	Sheet	Issue
1:200	A1	SHEET 6 OF 7	A

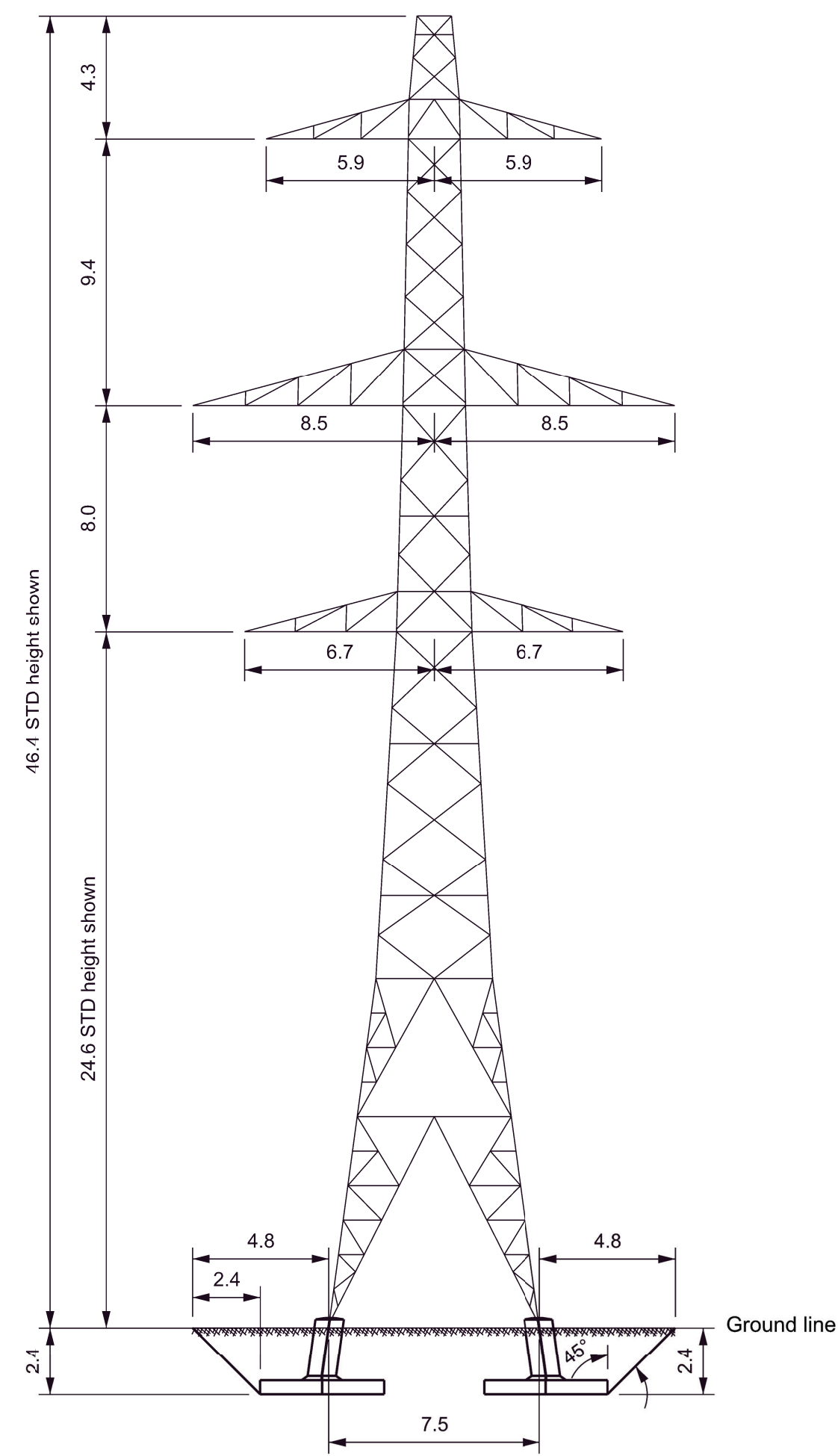
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L8(c) SERIES TYPE PYLON WIREFRAME DRAWING ZONE OF INFLUENCE
REGULATION 5(2)(o)
SHEET 7 OF 7



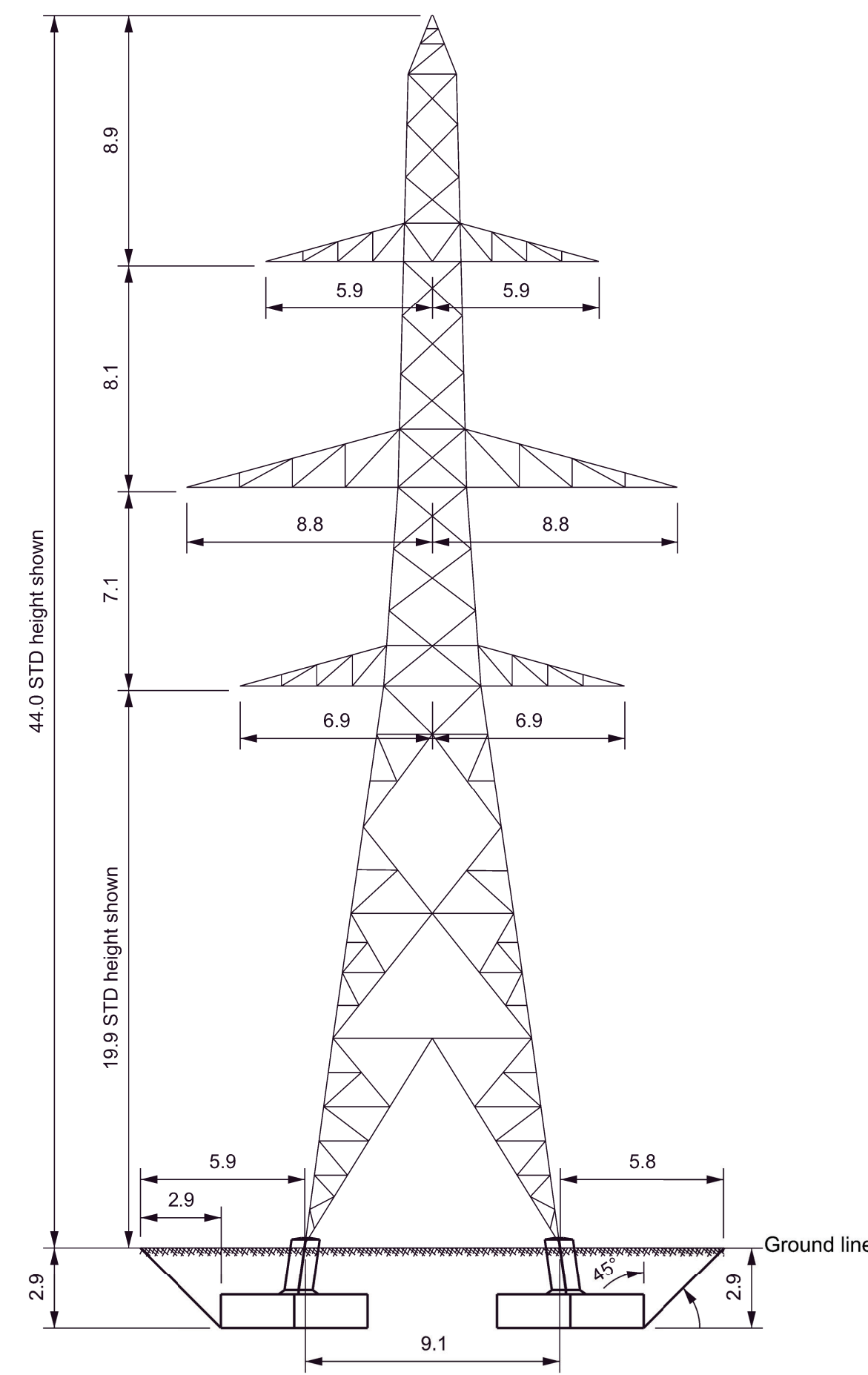
L8(c) D STD
Zone of influence - plan view



L8(c) D30 STD
Zone of influence - plan view

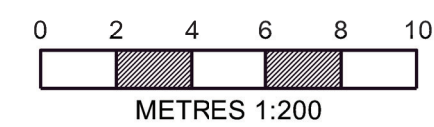


L8(c) D STD



L8(c) D30 STD

1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. Pylon leg spacing at ground level assumes level ground conditions.
6. The arrangement and 'foundations shown are for illustrative purposes only. The design may vary depending on site conditions, detail design, and the contractor's requirements.



A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE L8(c) SERIES
TYPE PYLON WIREFRAME DRAWING
ZONES OF INFLUENCE
REGULATION 5(2)(o)
SHEET 7 OF 7

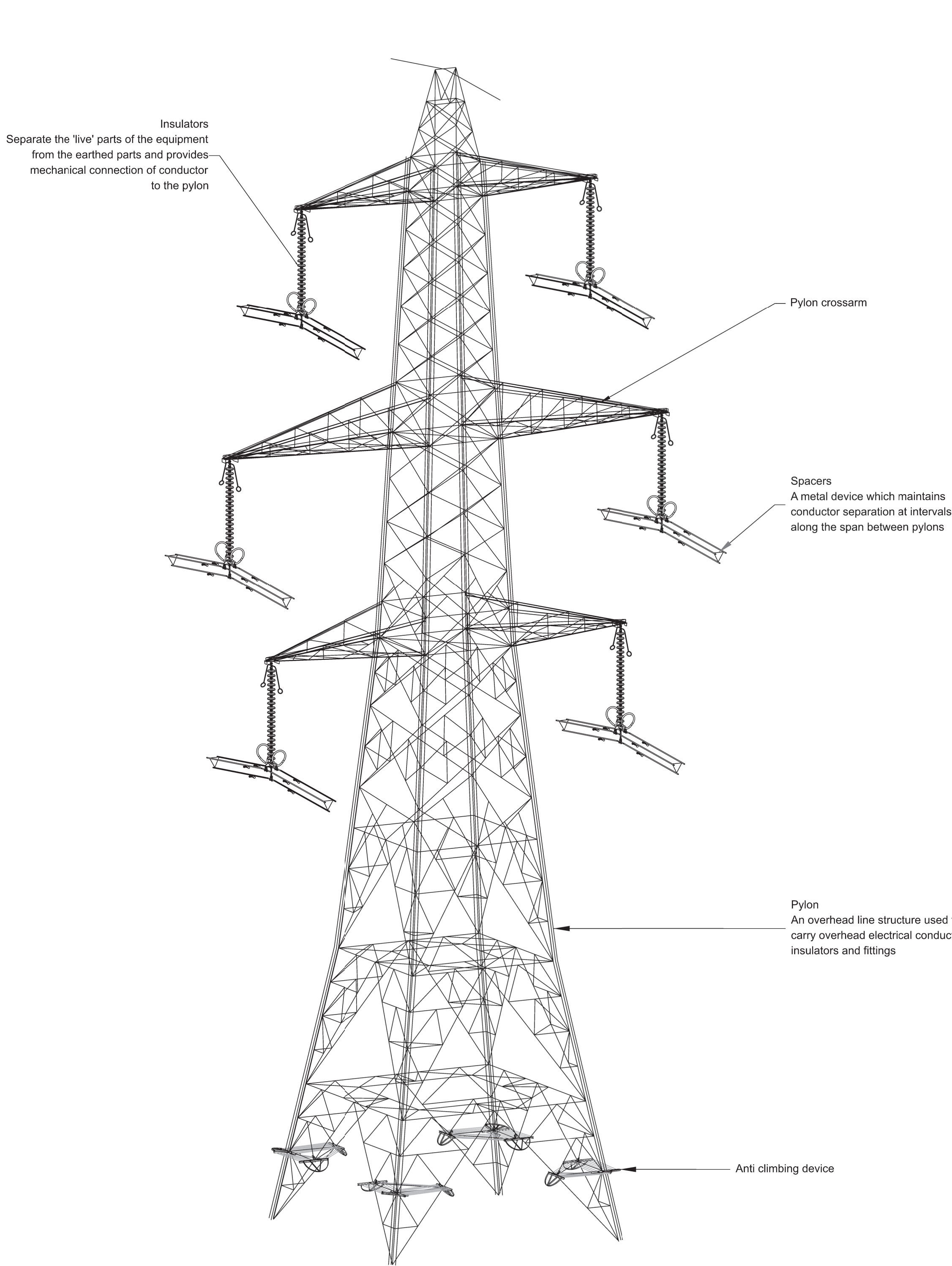
nationalgrid

<u>PINS Application Number</u>			
ENC20027			
<u>National Grid Drawing Reference</u>			
AENC-LSTC-ENG-DWG-0004-2			
<u>Scale</u>	<u>Sheet Size</u>	<u>Sheet</u>	<u>Issue</u>
1:200	A1	SHEET 7 OF 7	A

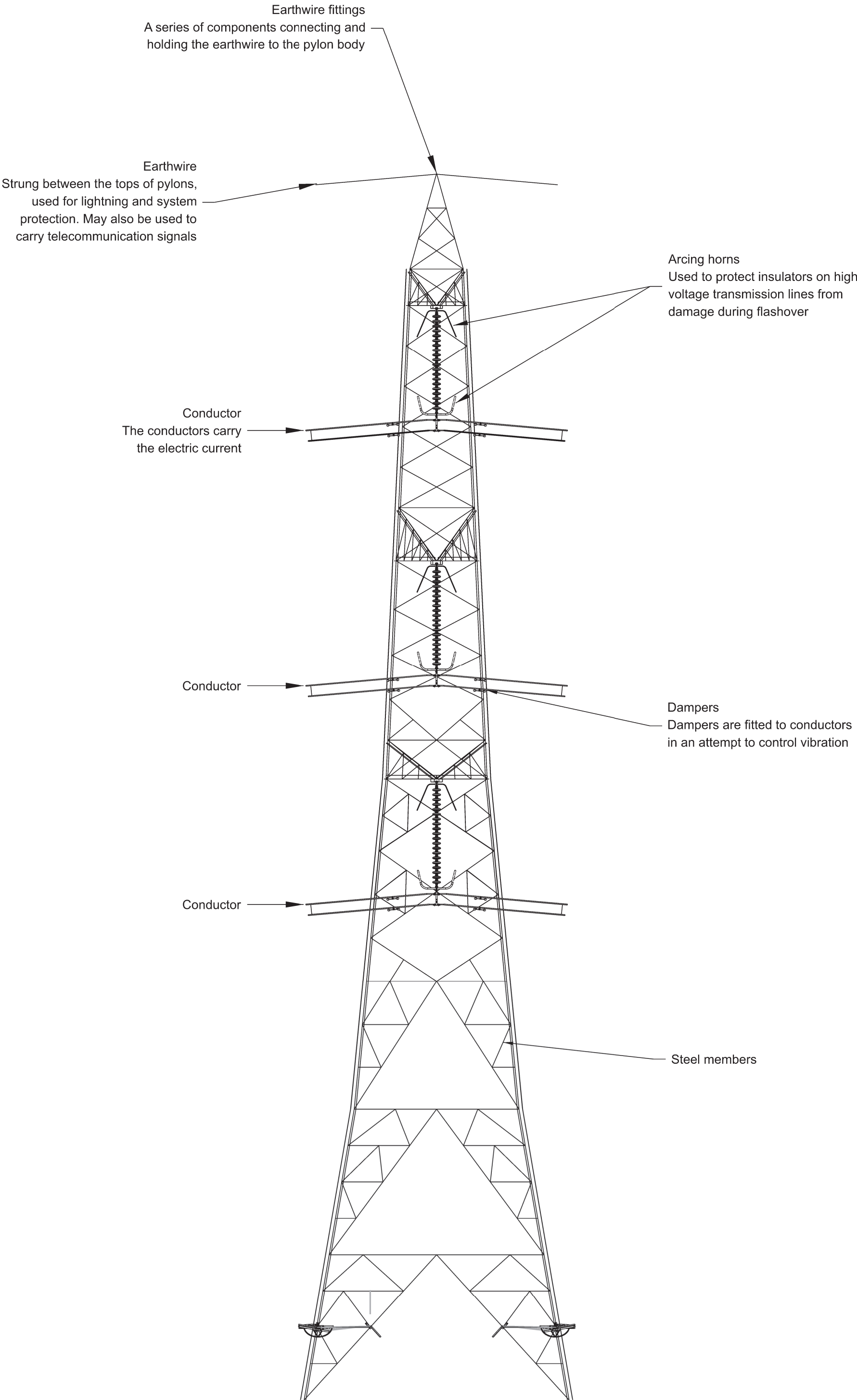
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE LABELLED SUSPENSION LATTICE PYLON
REGULATION 5(2)(o)
SHEET 1 OF 1

Application Document 2.6.2

LEGEND



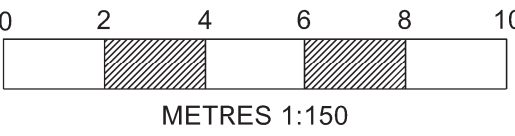
Isometric view on pylon
L6(m) D STD



Longitudinal view on pylon
L6(m) D STD

Notes

1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. This drawing shows basic components of a suspension lattice pylon.



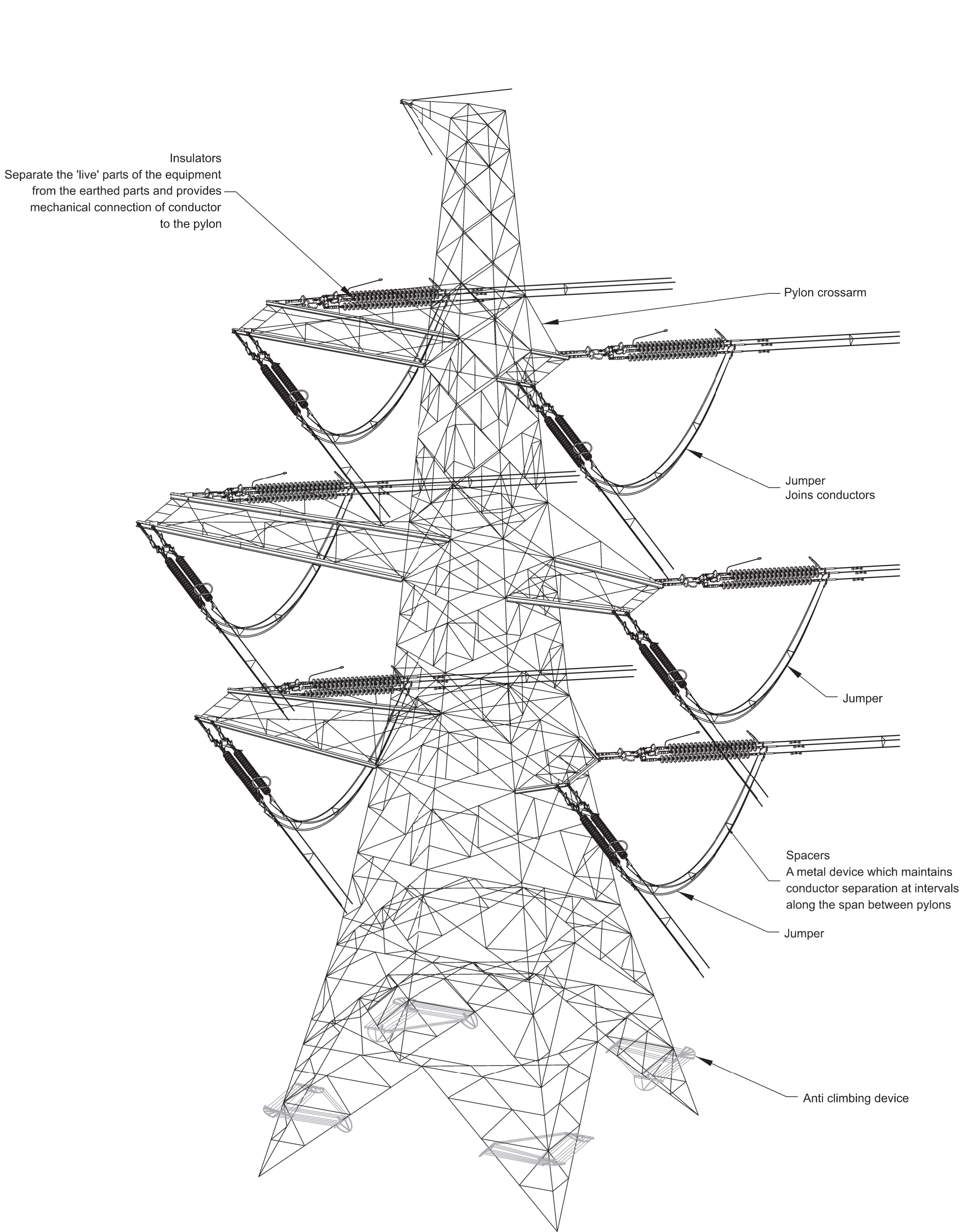
A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

Title

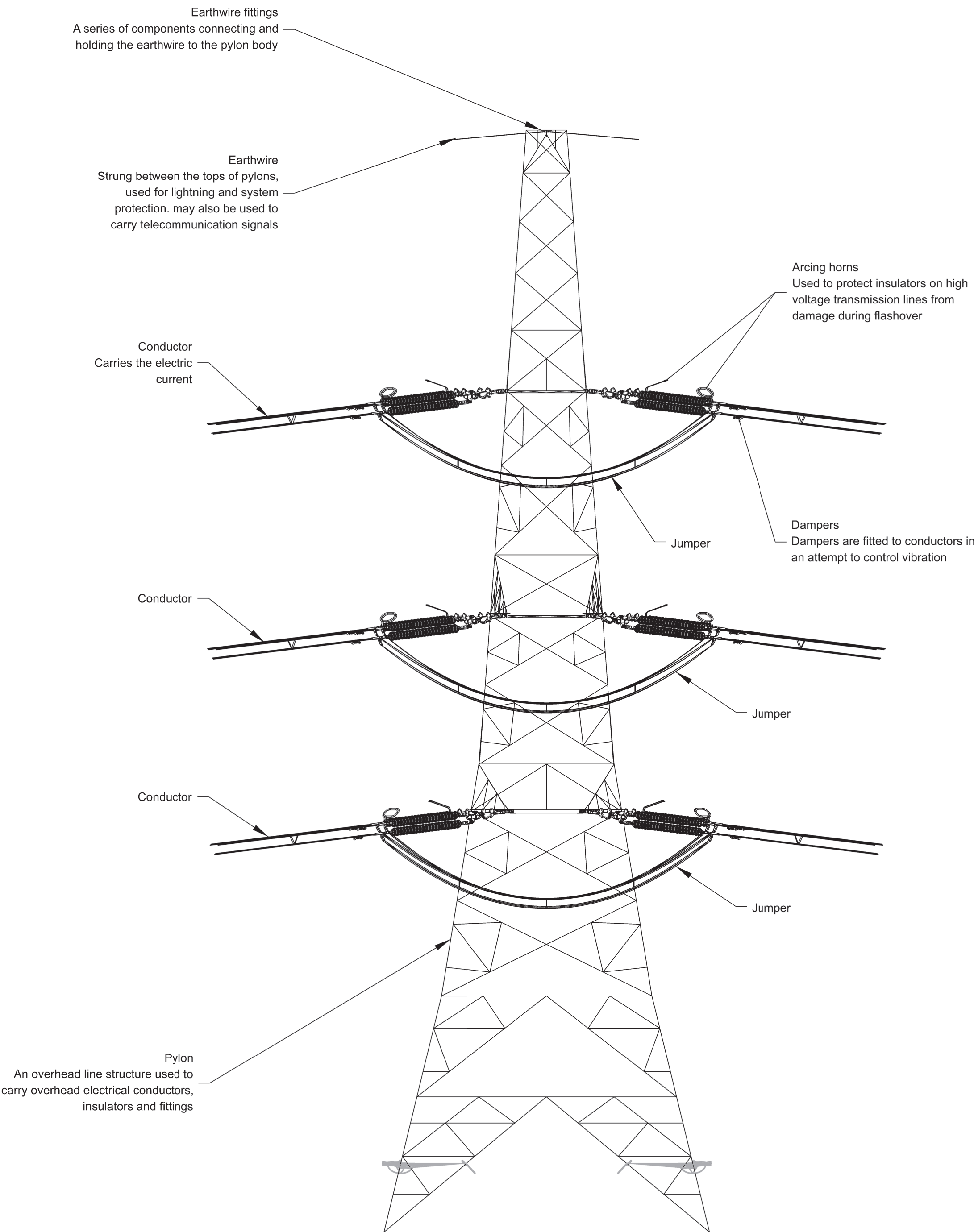
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE LABELLED
SUSPENSION LATTICE PYLON
REGULATION 5(2)(o)
SHEET 1 OF 1

nationalgrid

PINS Application Number			
EN020027			
National Grid Drawing Reference			
AENC-LSTC-ENG-DWG-0004-3			
Scale	Sheet Size	Sheet	Issue
1:150	A1	SHEET 1 OF 1	A



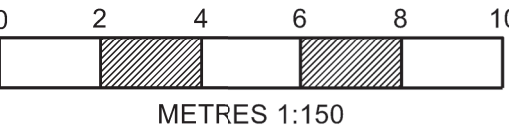
Isometric View on Pylon
L12 D90 STD



Longitudinal View on Pylon
L12 D90 STD

Notes

1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. This drawing shows basic components of an angled lattice pylon.



A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE LABELLED
ANGLED LATTICE PYLON
REGULATION 5(2)(o)
SHEET 1 OF 1

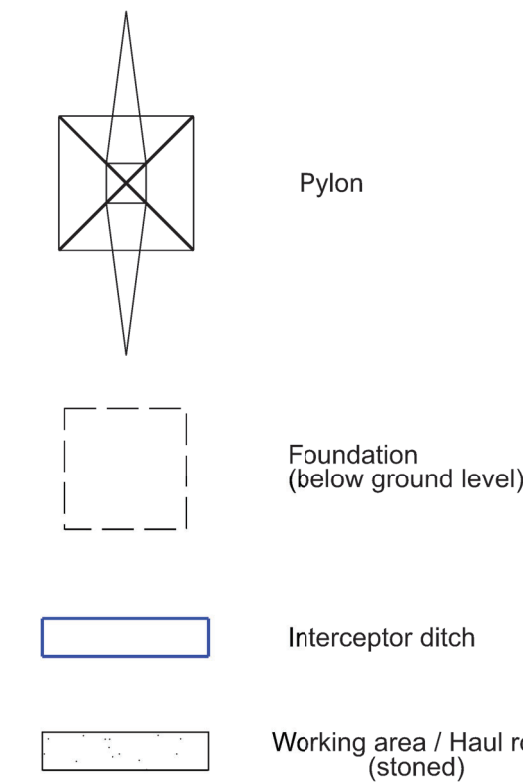
nationalgrid

PINS Application Number			
EN020027			
National Grid Drawing Reference			
AENC-LSTC-ENG-DWG-0004-4			
Scale	Sheet Size	Sheet	Issue
1:150	A1	SHEET 1 OF 1	A

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE PYLON WORKING AREA
REGULATION 5(2)(o)
SHEET 1 OF 1

Application Document 2.6.2

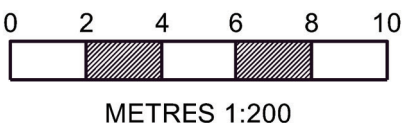
LEGEND



Notes

1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lia.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. Illustrative working area dimension "A" may vary based on pylon type. An angle/tension pylon may require a larger area than a suspension pylon as the angle/tension pylon is generally larger and more involved to construct. A low height pylon may also require a larger working area as they are wider designs. Illustrative dimensions for dimension "A" are shown in the table below:

Pylon Type	Dimension "A"
Suspension	60m
Angle / Tension	70m
Low Height Suspension	70m
Low Height Angle / Tension	80m



A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE PYLON WORKING AREA
REGULATION 5(2)(o)
SHEET 1 OF 1

nationalgrid

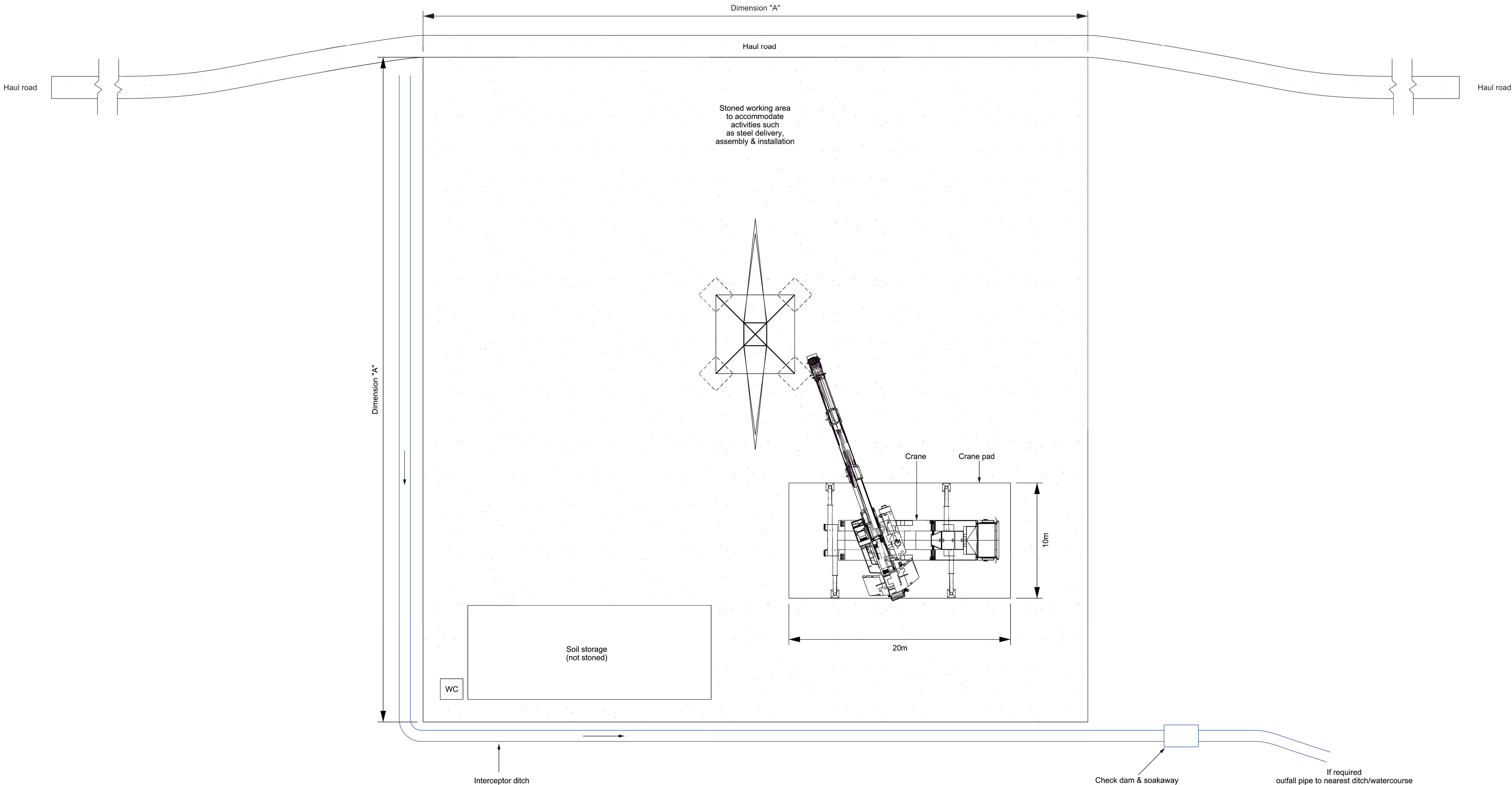
PINS Application Number

EN020027

National Grid Drawing Reference

AENC-LSTC-ENG-DWG-0004-5

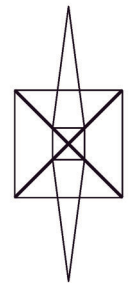
Scale	Sheet Size	Sheet	Issue
1:200	A1	SHEET 1 OF 1	A



THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE LATTICE PYLON CONDUCTOR PULLING POSITION
REGULATION 5(2)(o)
SHEET 1 OF 1

Application Document 2.6.2

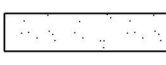
LEGEND



Pylon



Foundation
(below ground level)



Haul road and
working area
(stoned)



Interceptor ditch



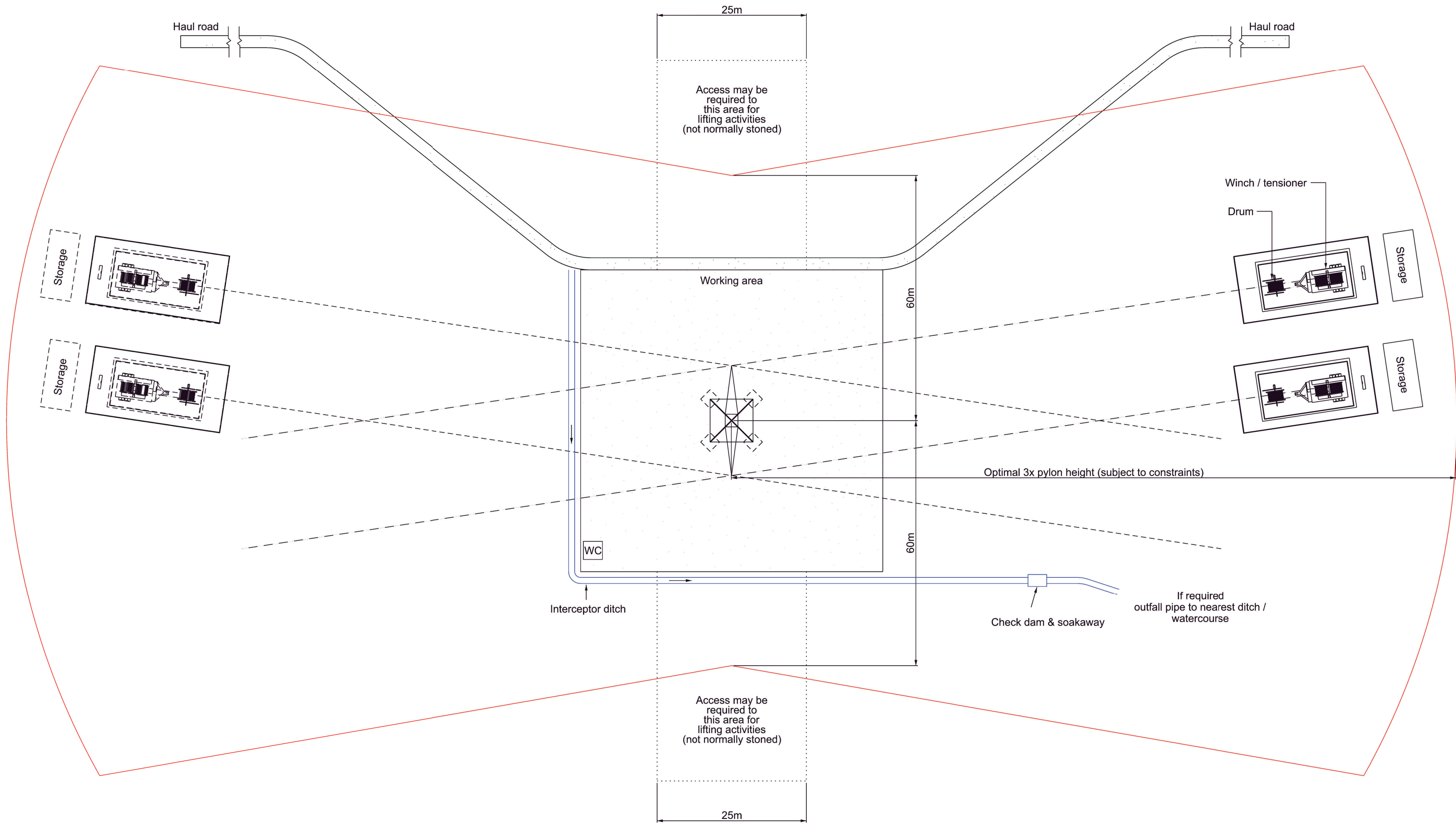
Overhead line conductors



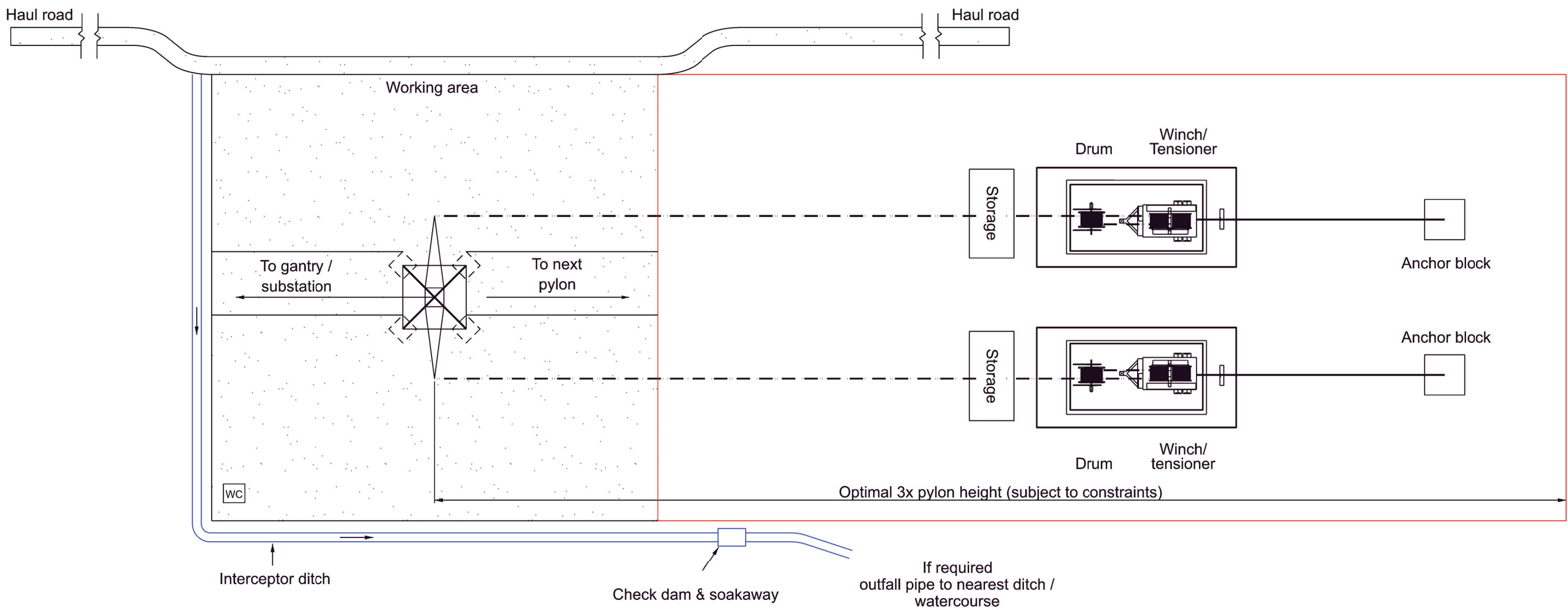
Conductor pulling
position area

Notes

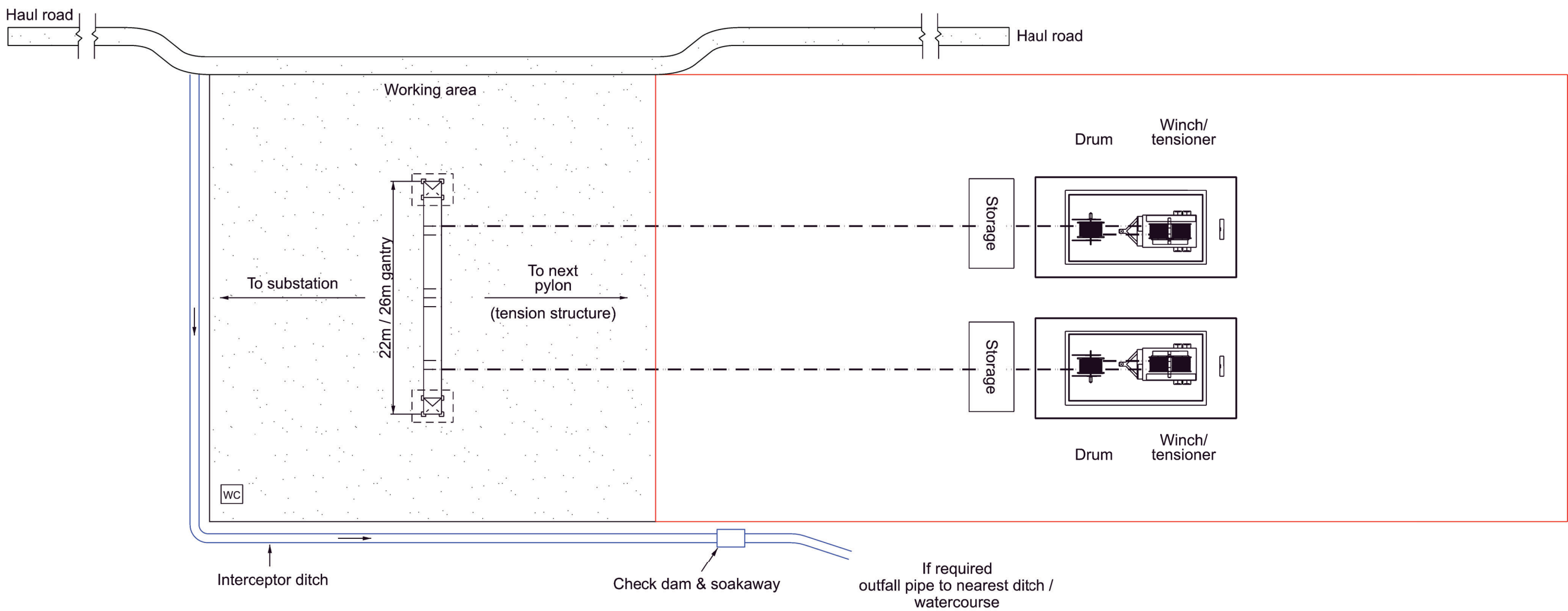
1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. For terminal pylon, equipment for pulling activity is shown on the right-hand side, however can be reversed.
5. The structure preceding the full line tension gantry is to be a tension pylon.
6. This drawing shows a conductor pulling area during conductor installation.



Arrangement at angle pylon



Arrangement at terminal pylon



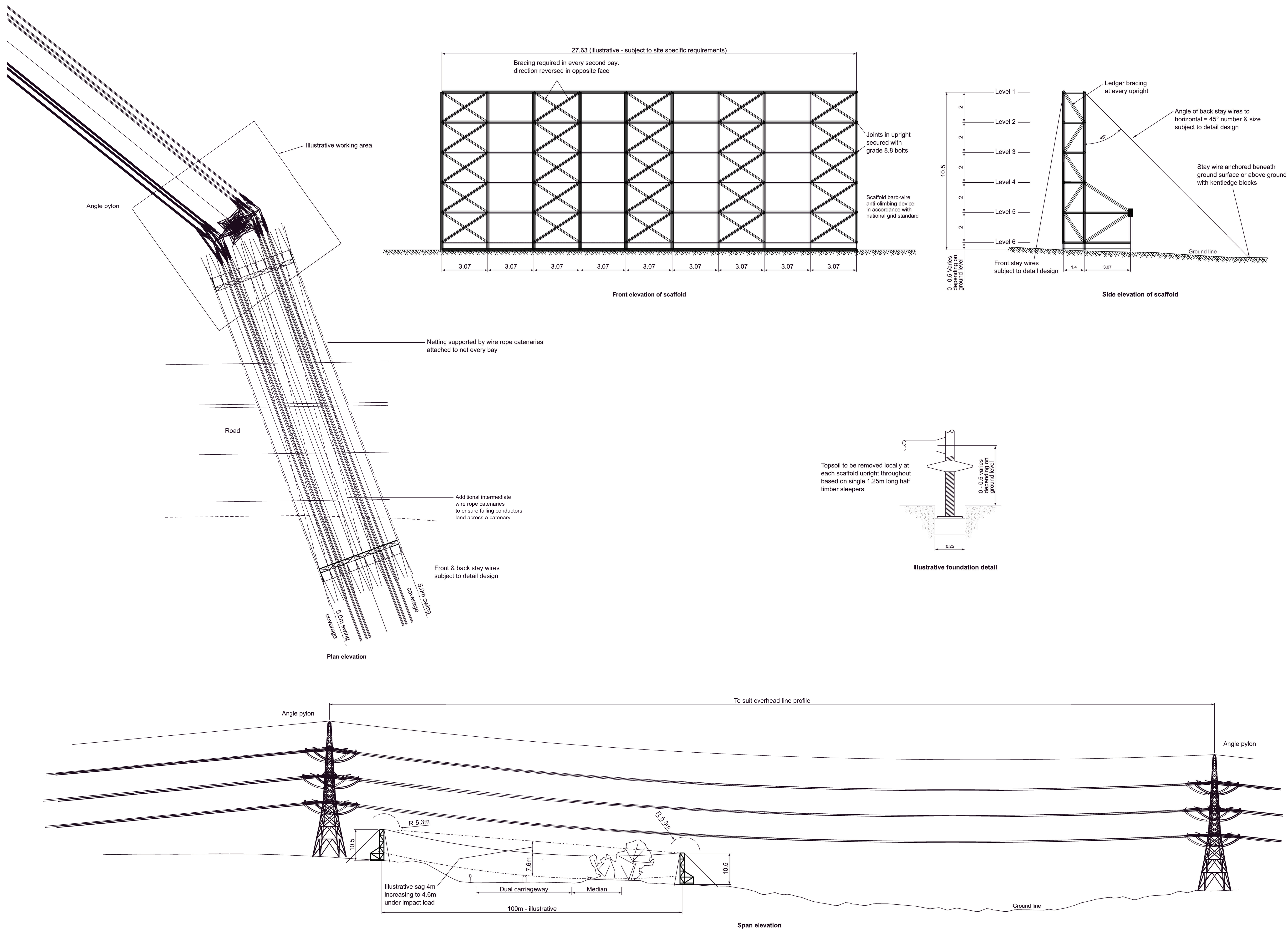
Arrangement at full line tension gantry

A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE LATTICE PYLON
CONDUCTOR PULLING POSITION
REGULATION 5(2)(o)
SHEET 1 OF 1

nationalgrid

PINS Application Number			
EN220027			
National Grid Drawing Reference			
AENC-LSTC-ENG-DWG-0004-6			
Scale	Sheet Size	Sheet	Issue
N.T.S.	A1	SHEET 1 OF 1	A



- ## Notes
1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
 2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
 3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
 4. Tower heights and positions are for illustrative purposes only.
 5. Scaffolding shown for illustrative purposes only. Subject to detail design and in accordance with National Grid standards.

A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE SCAFFOLD PROTECTION
FOR OVERHEAD LINE CONDUCTOR STRINGING
REGULATION 5(2)(o)
SHEET 1 OF 1

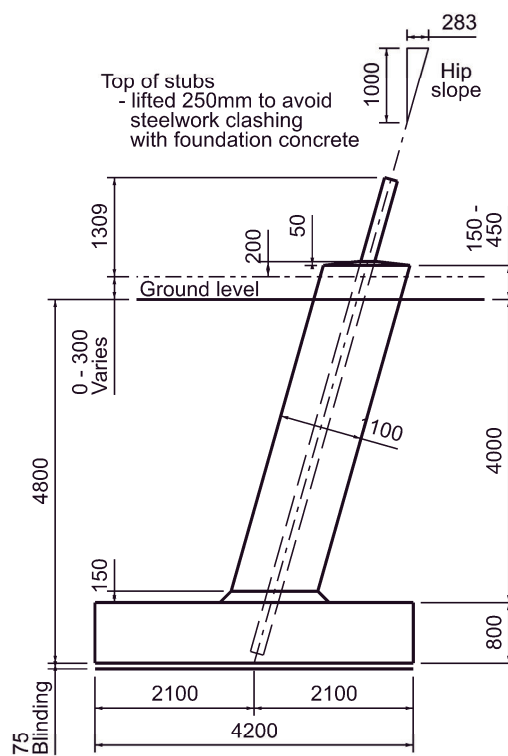
nationalgrid

INS Application Number			
EN020027			
ational Grid Drawing Reference			
AENC-LSTC-ENG-DWG-0004-7			
Scale	Sheet Size	Sheet	Issue
N.T.S.	A1	SHEET 1 OF 1	A

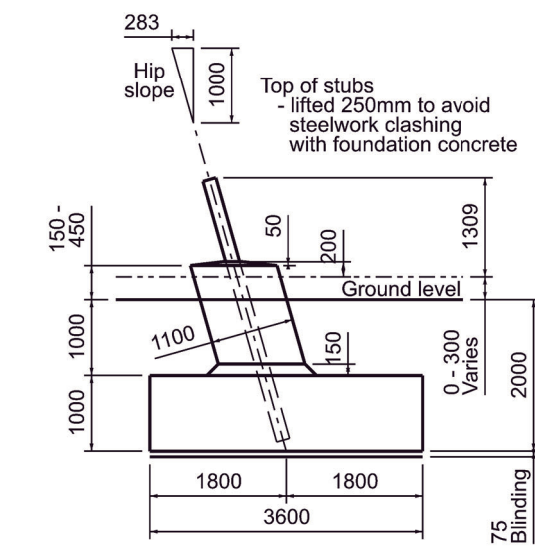
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE FOUNDATION DETAILS (PAD & COLUMN AND PILE CAP DESIGNS) TO SUIT L12 TYPE PYLONS
REGULATION 5(2)(o)
SHEET 1 OF 5

Application Document 2.6.2

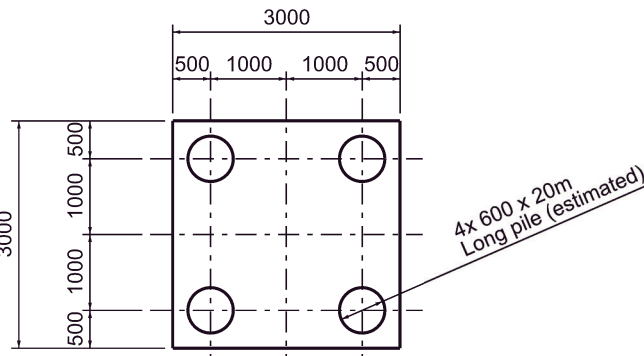
LEGEND



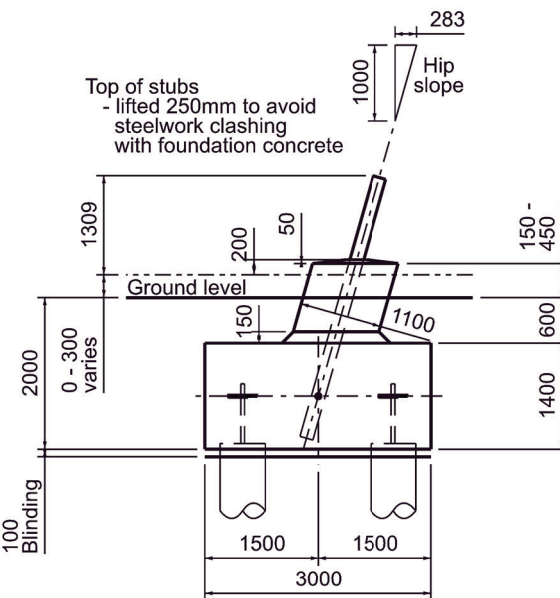
Elevation of L12 D55 uplift foundation



Elevation of L12 D55 compression foundation

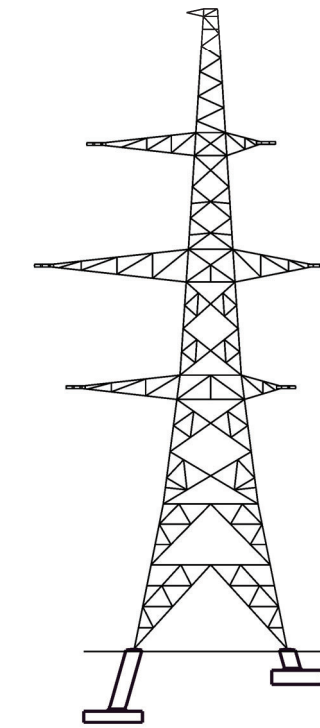


Plan view

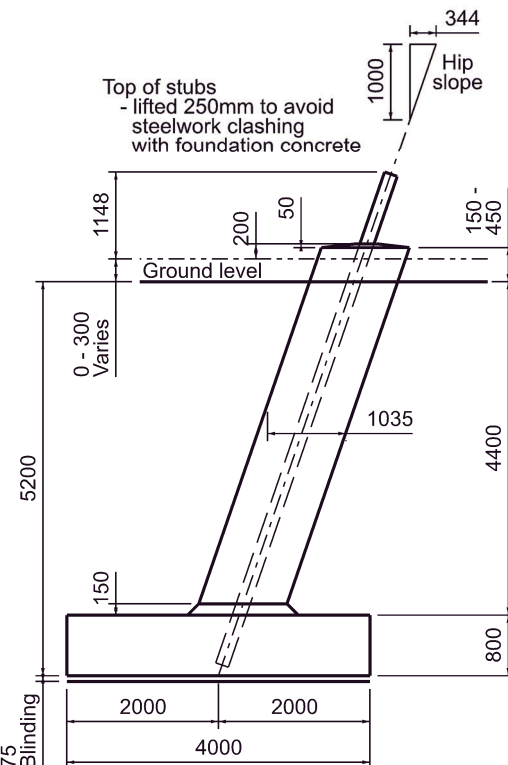


Elevation

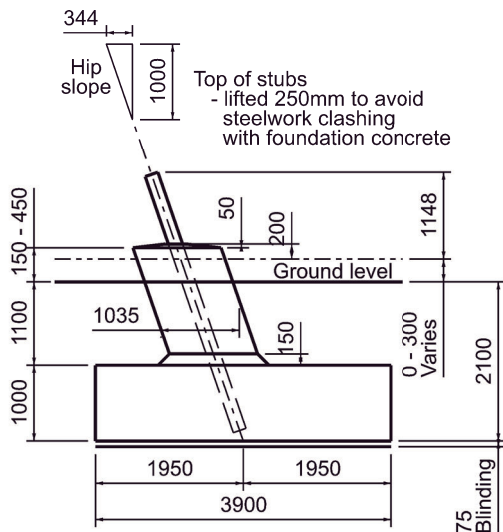
L12 D55 pile cap foundation



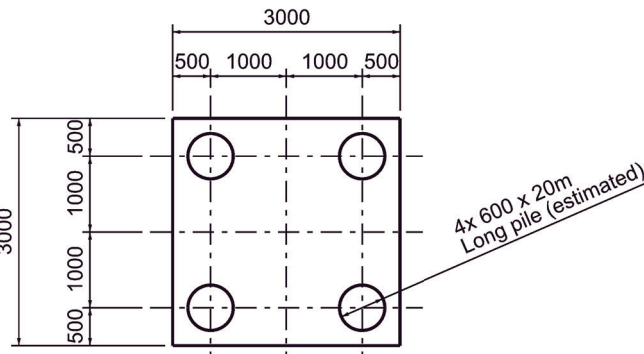
Key Diagram showing
illustrative L12 D55 foundations
(N.T.S)



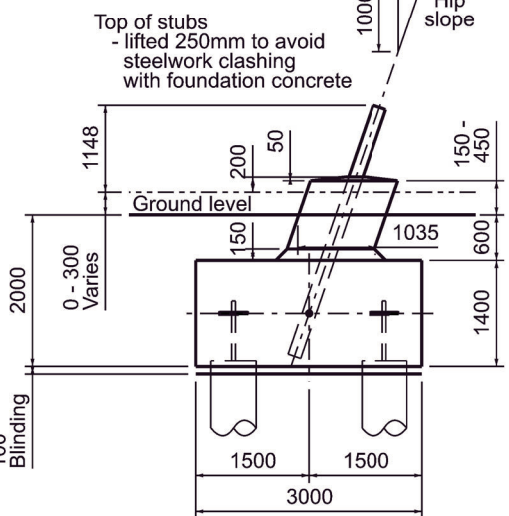
Elevation of L12 D90 uplift foundation



Elevation of L12 D90 compression foundation

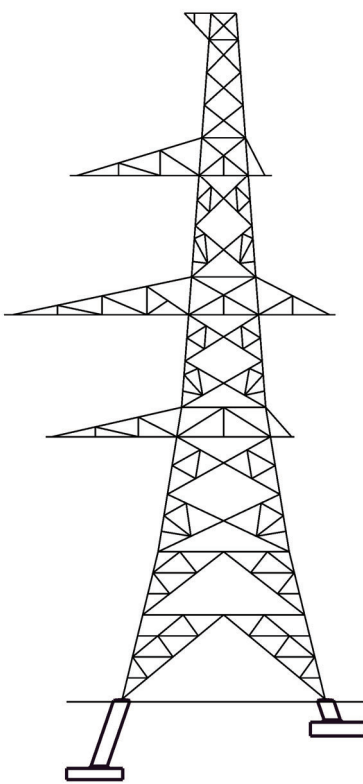


Plan view

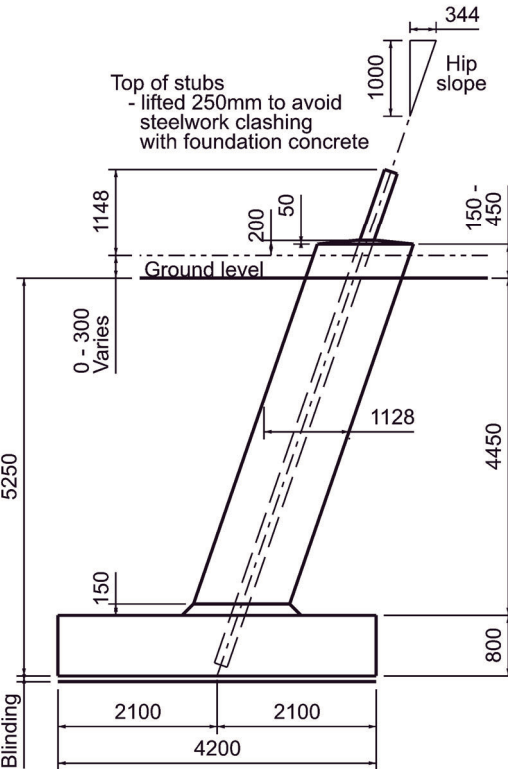


Elevation

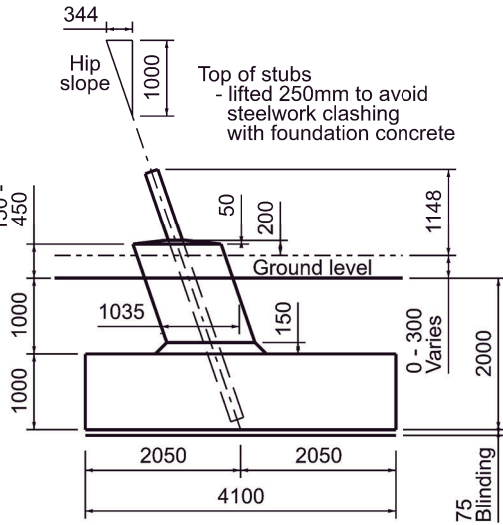
L12 D90 pile cap foundation



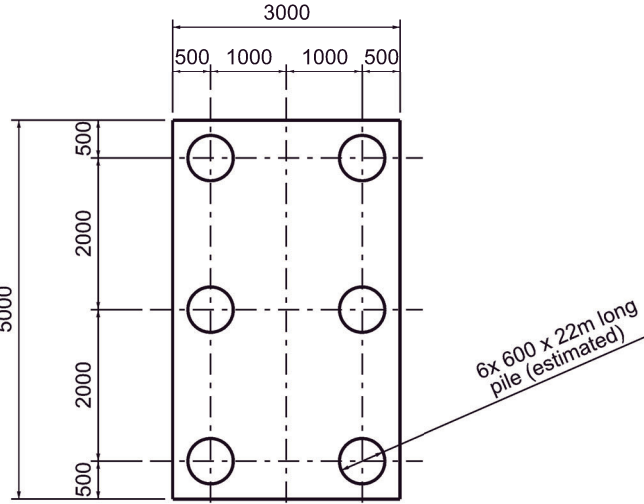
Key Diagram showing
illustrative L12 D90 foundations
(N.T.S)



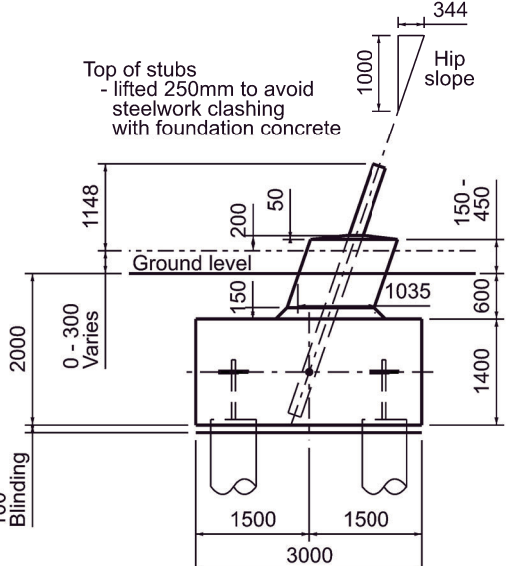
Elevation of L12 DT (0-40) MK3 uplift foundation



Elevation of L12 DT (0-40) MK3 compression foundation

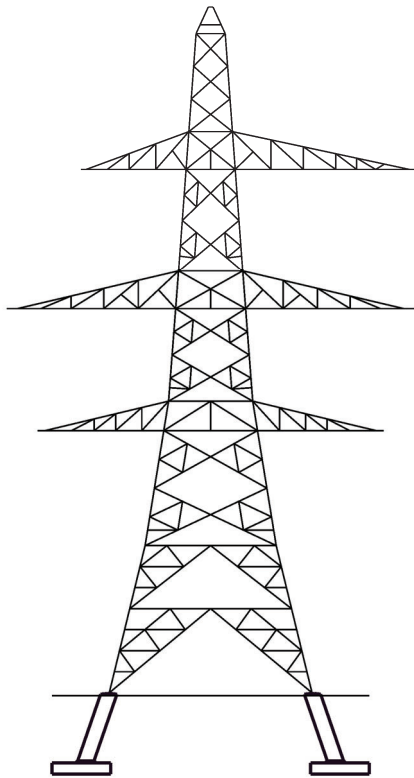


Plan View



Elevation

L12 DT (0-40) MK3 pile cap foundation



Key diagram showing
illustrative L12 DT foundations
(N.T.S)



Notes

- These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
- For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
- All dimensions are approximate and indicated in millimetres (mm) unless noted otherwise.
- This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
- Foundation designs are illustrative only and subject to final detail design.
- Concrete volumes exclude minimum blinding depths.
- Pile dimensions are estimated and would be subject to ground conditions as determined by a geotechnical investigation.
- Pad and column type foundations are suitable for standard cohesive / granular ground as defined by National Grid Electricity Transmission Standards.

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE FOUNDATION DETAILS
(PAD & COLUMN AND PILE DESIGNS)
TO SUIT L12 TYPE PYLONS
REGULATION 5(2)(o)
SHEET 1 OF 5

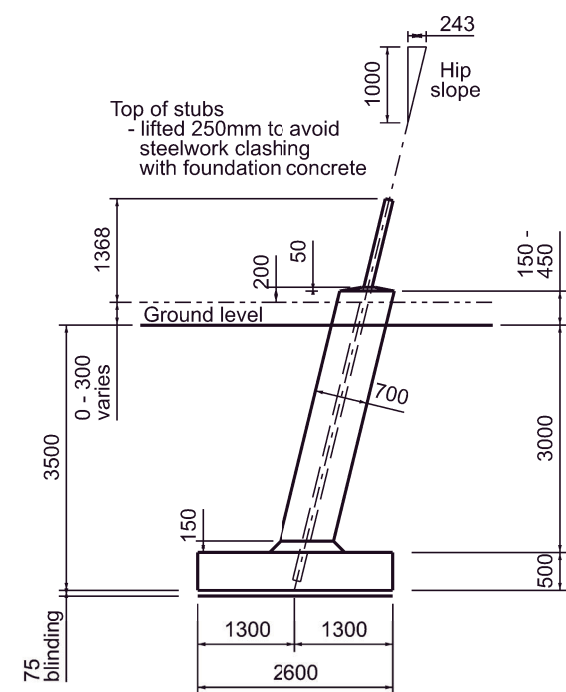
nationalgrid

PINS Application Number			
EN020027			
National Grid Drawing Reference			
AENC-LSTC-ENG-DWG-0004-8			
Scale	Sheet Size	Sheet	Issue
1:50	A1	SHEET 1 OF 5	A

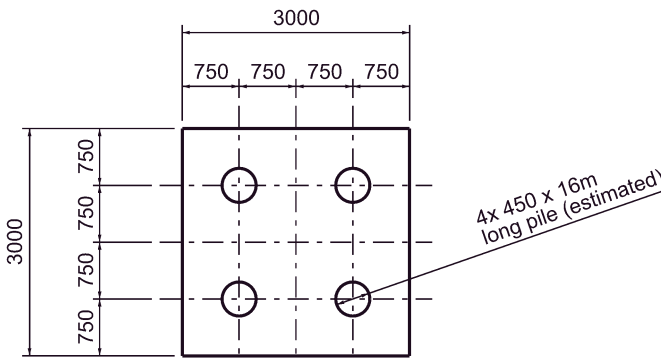
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE FOUNDATION DETAILS (PAD & COLUMN AND PILE CAP DESIGNS) TO SUIT L6m TYPE PYLONS
REGULATION 5(2)(o)
SHEET 2 OF 5

Application Document 2.6.2

LEGEND

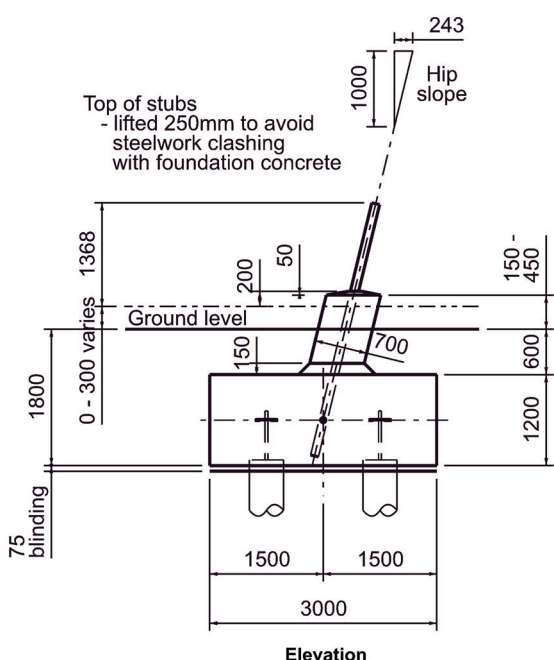


Elevation of L6m D uplift / compression foundation

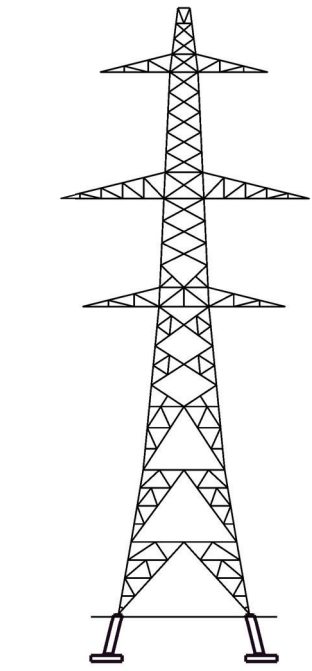


Plan view

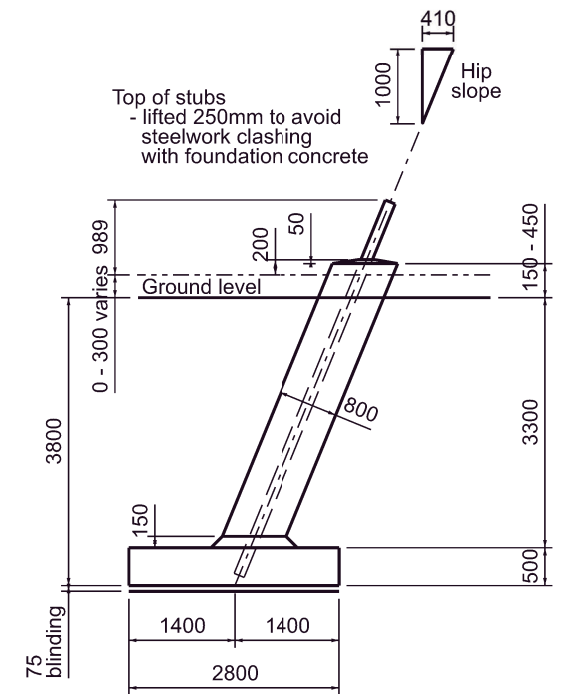
L6m D pile cap foundation



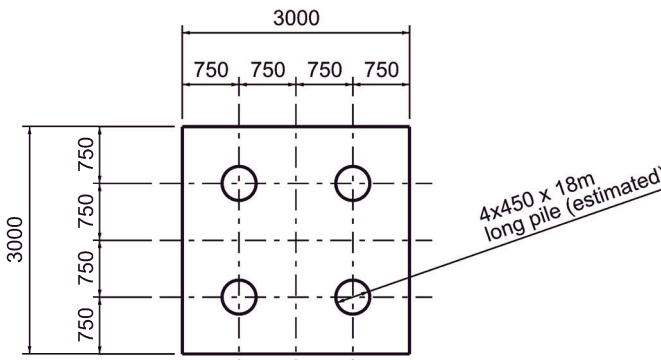
Elevation



Key diagram showing
illustrative L6m foundations
(N.T.S)

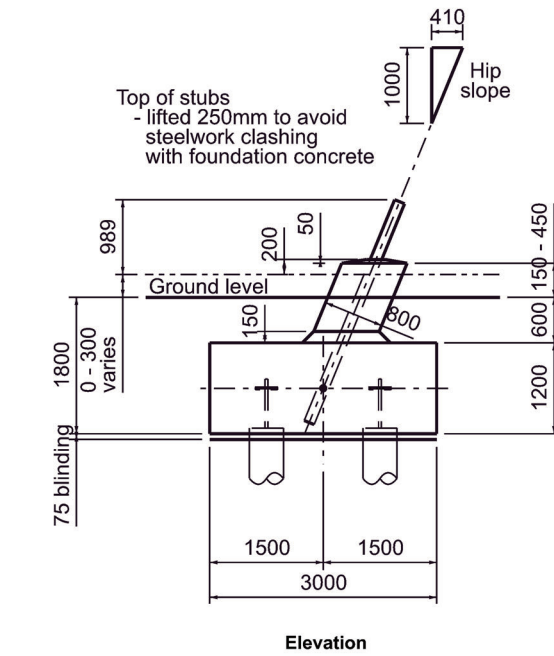


Elevation of L6m D30 (0-10°) uplift / compression foundation

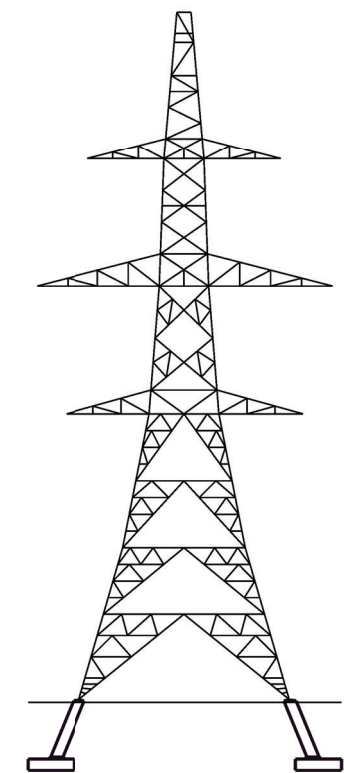


Plan view

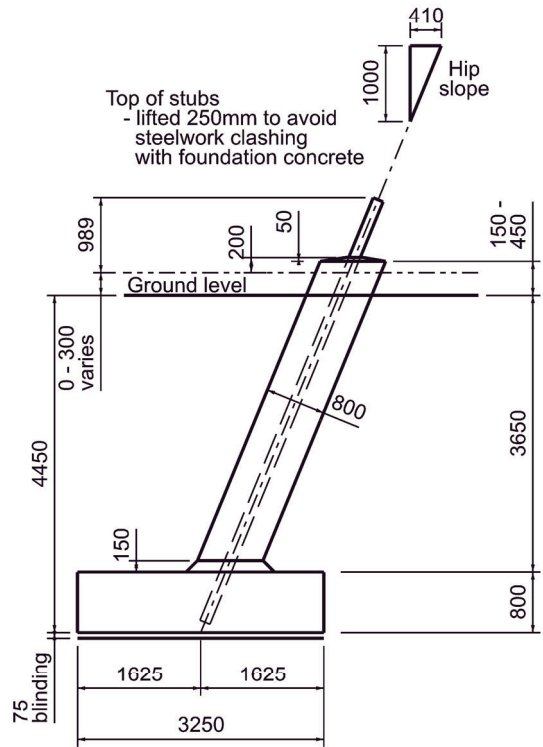
L6m D30 (0-10°) pile cap foundation



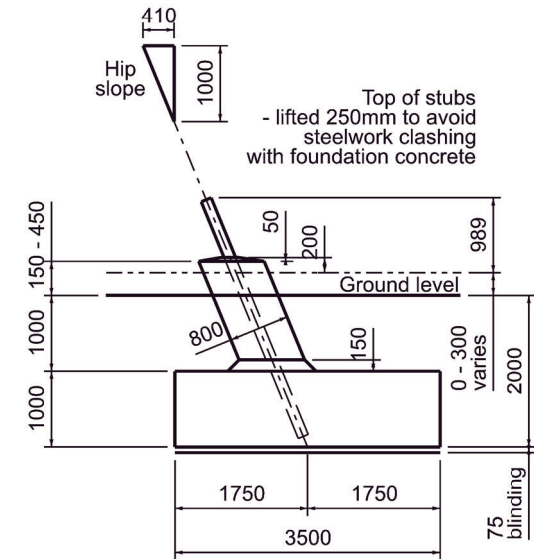
Elevation



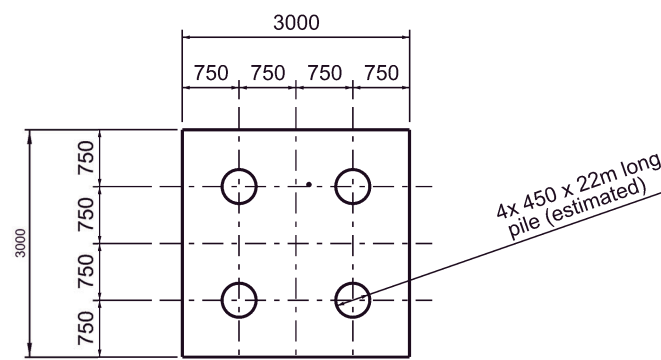
Key diagram showing
illustrative L6m D30 foundations
(N.T.S)



Elevation of L6m D30 (10-30°) uplift foundation

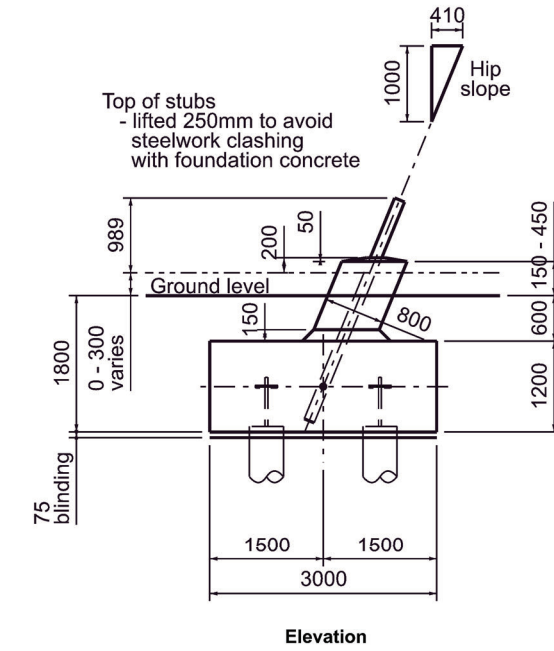


Elevation of L6m D30 (10-30°) compression foundation

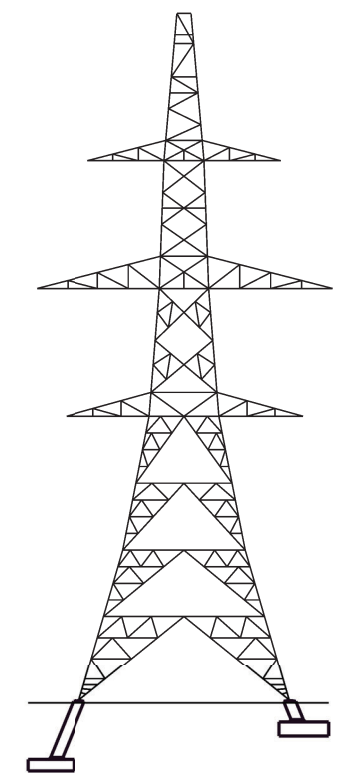


Plan View

L6m D30 (10-30°) pile cap foundation



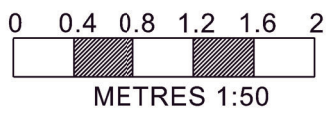
Elevation



Key diagram showing
illustrative L6m D30 foundations
(N.T.S)

Notes

- These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
- For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
- All dimensions are approximate and indicated in millimetres (mm) unless noted otherwise.
- This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
- Foundation designs are illustrative only and subject to final detail design.
- Concrete volumes exclude minimum blinding depths.
- Pile dimensions are estimated and would be subject to ground conditions as determined by a geotechnical investigation.
- Pad and column type foundations are suitable for standard cohesive / granular ground as defined by National Grid Electricity Transmission Standards.



A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

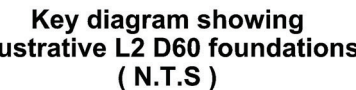
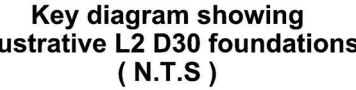
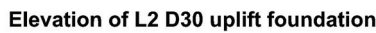
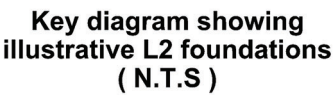
Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE FOUNDATION DETAILS
(PAD & COLUMN AND PILE DESIGNS)
TO SUIT L6m TYPE PYLONS
REGULATION 5(2)(o)
SHEET 2 OF 5

nationalgrid

PINS Application Number			
EN020027			
National Grid Drawing Reference			
AENC-LSTC-ENG-DWG-0004-8			
Scale	Sheet Size	Sheet	Issue
1:50	A1	SHEET 2 OF 5	A

1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in millimetres (mm) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. Foundation designs are illustrative also and subject to final detail design.
6. Concrete volumes exclude minimum blinding depths.
7. Pile dimensions are estimated and would be subject to ground conditions as determined by a geotechnical investigation.
8. Pad and column type foundations are suitable for standard cohesive / granular ground as defined by National Grid Electricity Transmission Standards.



A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE FOUNDATION DETAILS
(PAD & COLUMN AND PILE DESIGNS)
TO SUIT L2 TYPE PYLONS
REGULATION 5(2)(o)
SHEET 3 OF 5

nationalgrid

PINS Application Number

EN02002

National Grid Drawing Reference

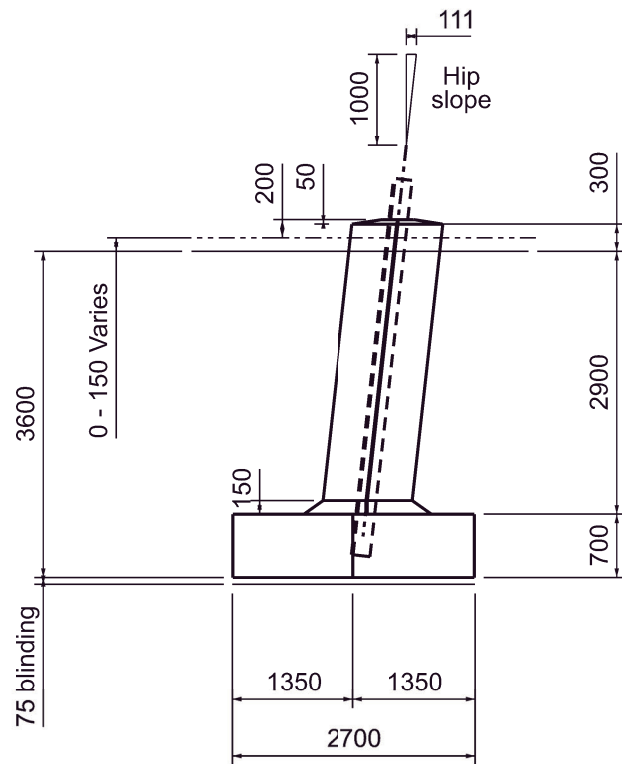
AENC-LSTC-ENG-DWG-0004-8

<u>Scale</u>	<u>Sheet Size</u>	<u>Sheet</u>	<u>Issue</u>
1:50	A1	SHEET 3 OF 5	A

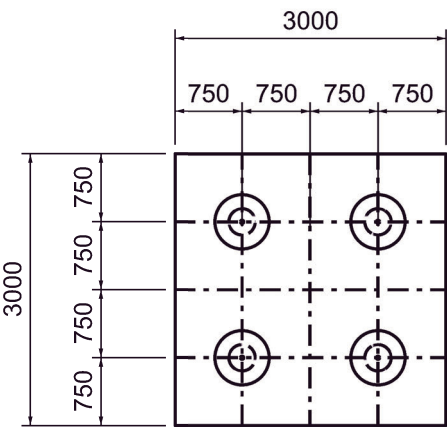
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE FOUNDATION DETAILS (PAD & COLUMN AND PILE CAP DESIGNS) TO SUIT L13 LOW HEIGHT TYPE PYLONS
REGULATION 5(2)(o)
SHEET 4 OF 5

Application Document 2.6.2

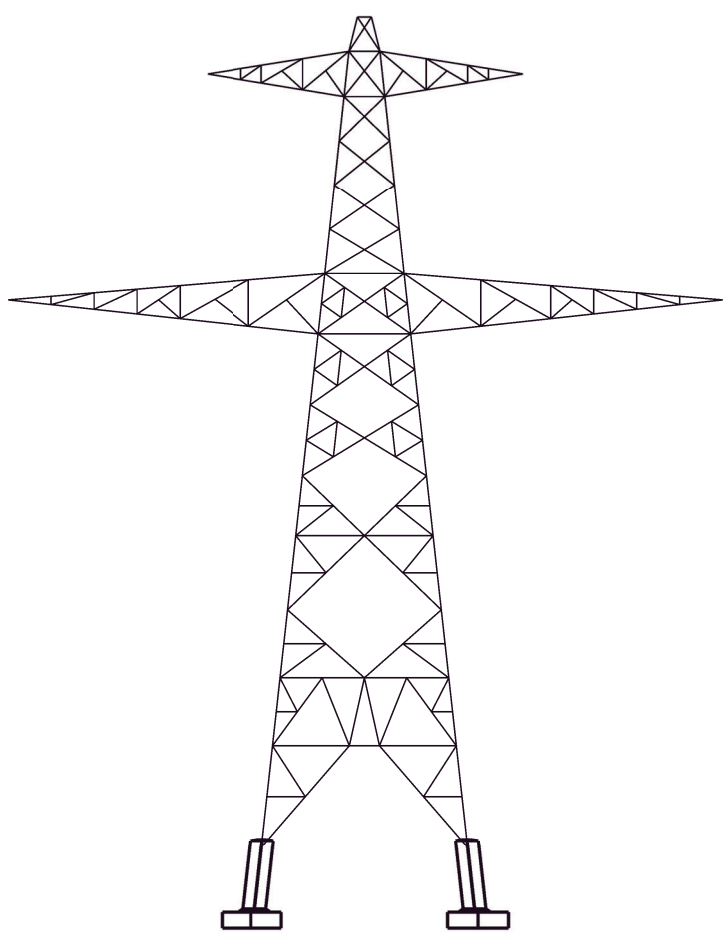
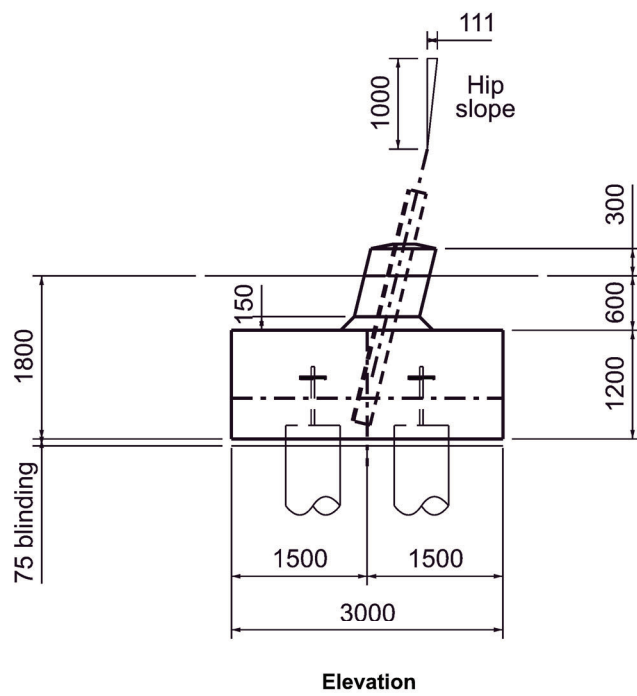
LEGEND



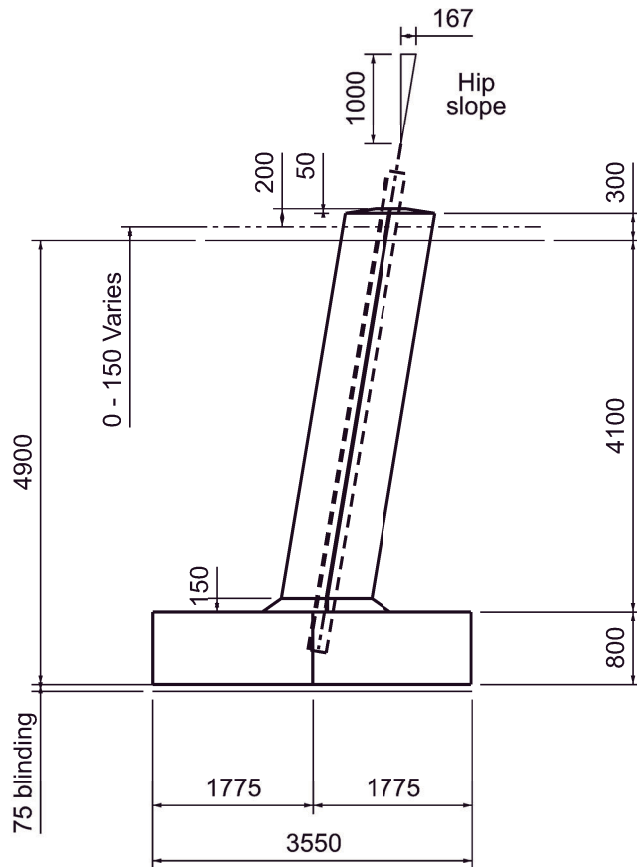
Elevation of L13 D uplift / compression foundation



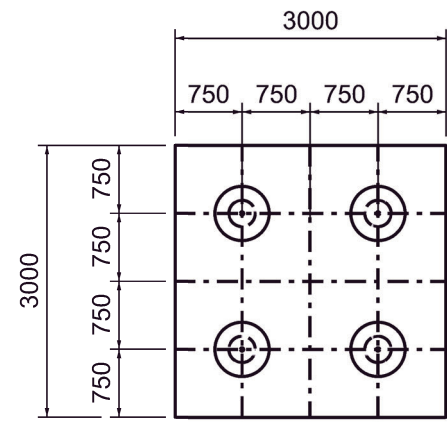
L13 pile cap foundation



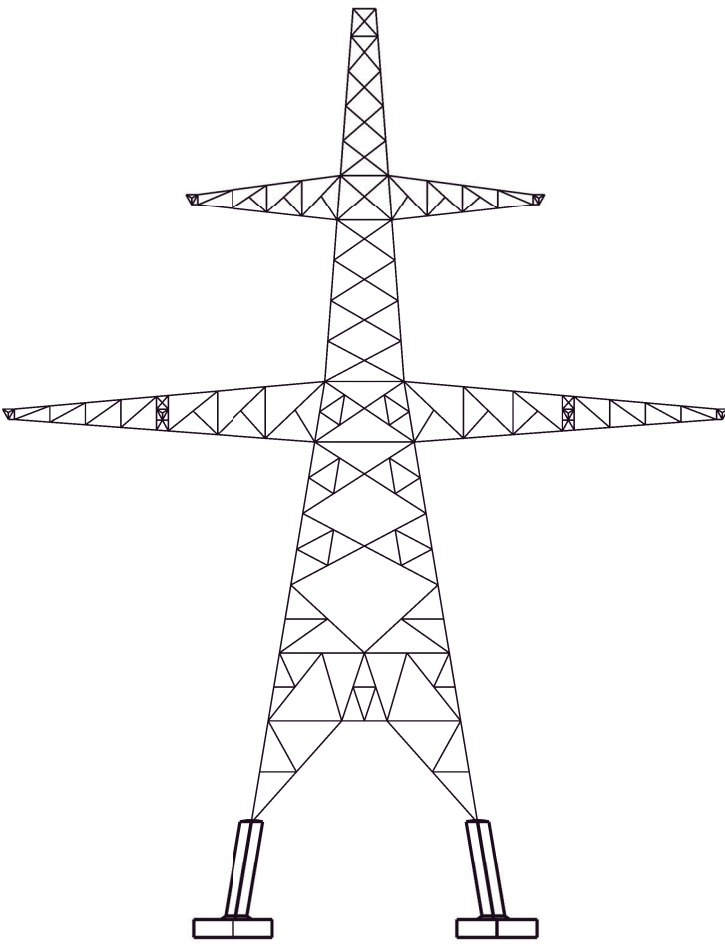
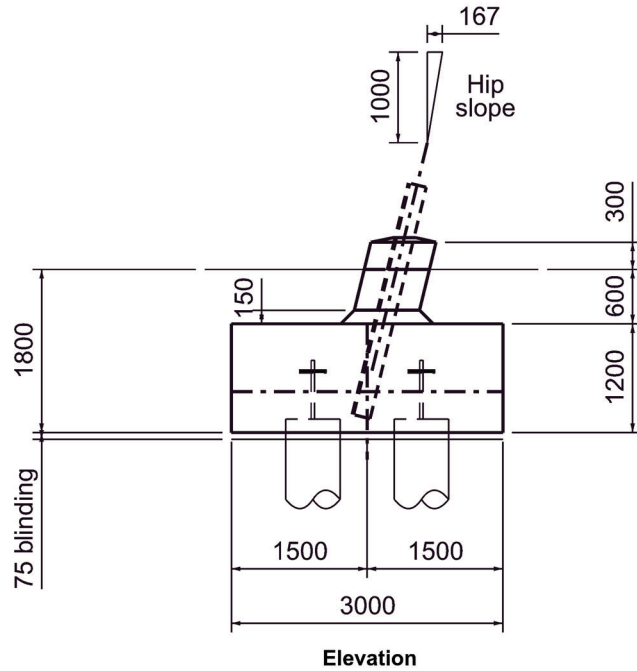
Key diagram showing
illustrative L13 foundations
(N.T.S)



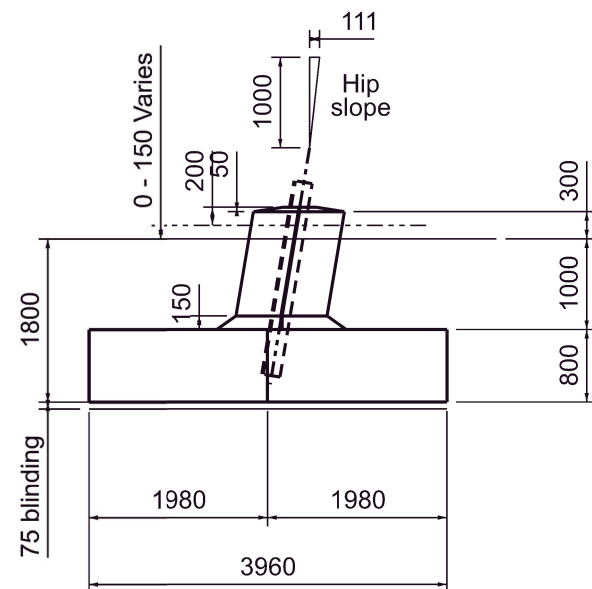
Elevation of L13 LD30 (0-10) uplift / compression foundation



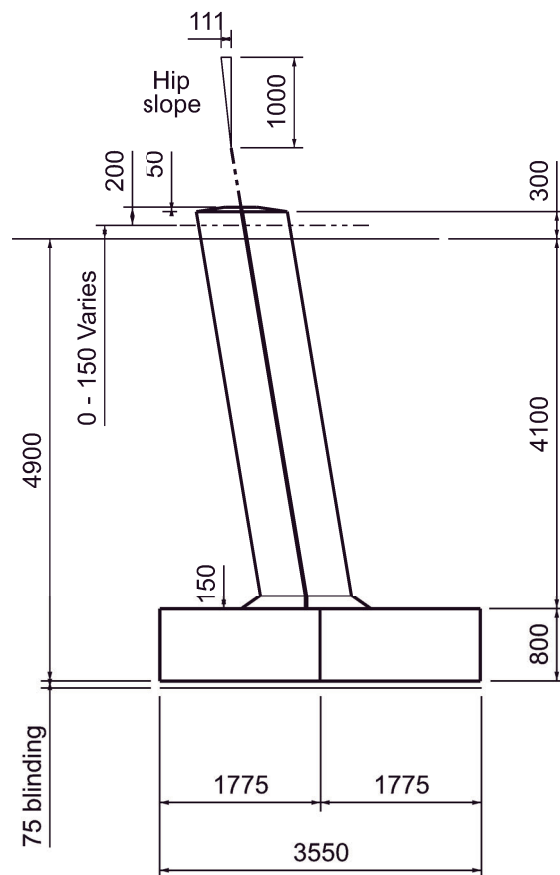
L13 LD30 (0-10) pile cap foundation



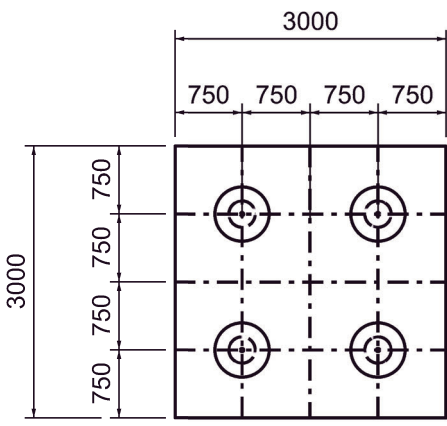
Key diagram showing
illustrative L13 LD30 (0-10) foundations
(N.T.S)



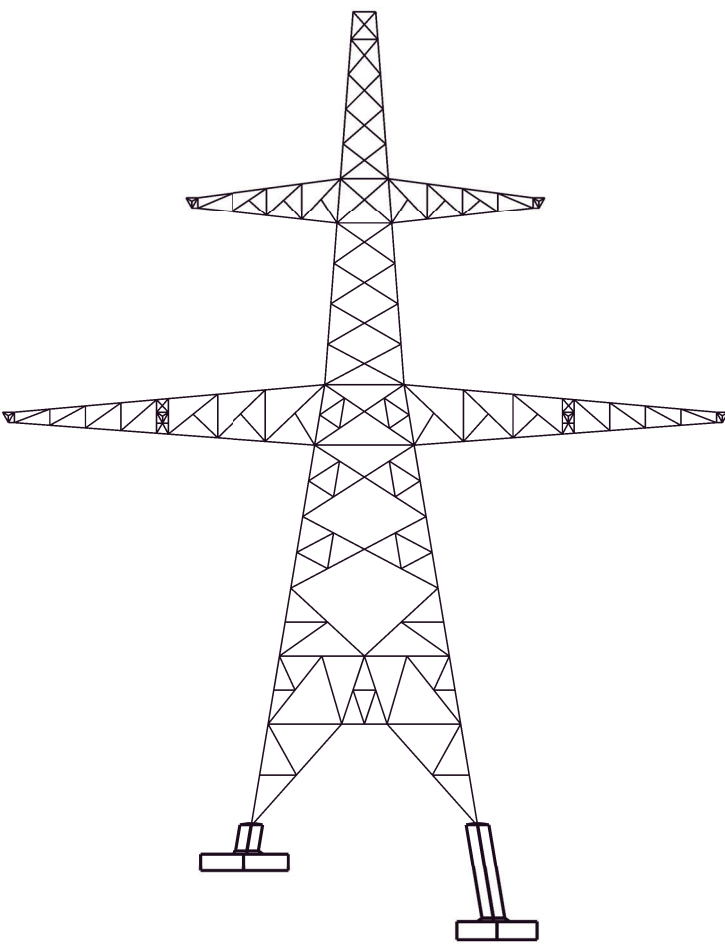
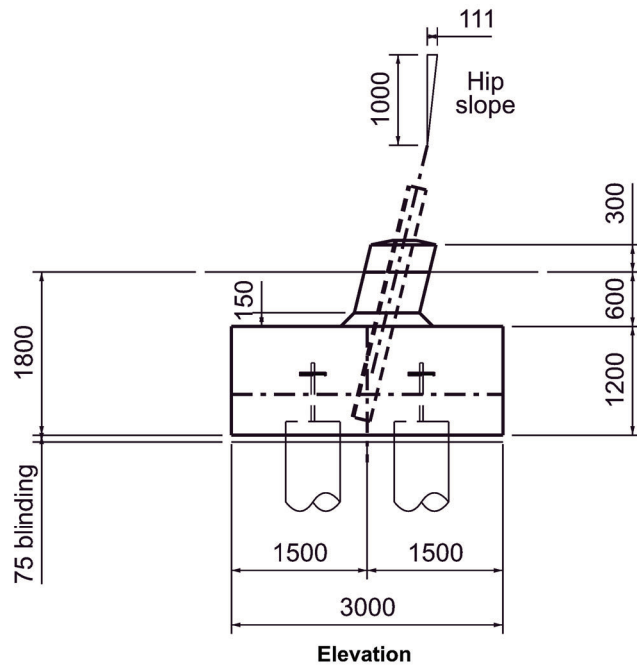
Elevation of L13 LD30 (10-30)
compression foundation



Elevation of L13 LD30 (10-30) uplift foundation



L13 LD30 (10-30) pile cap foundation



Key diagram showing
illustrative L13 LD30 (10-30) foundations
(N.T.S)

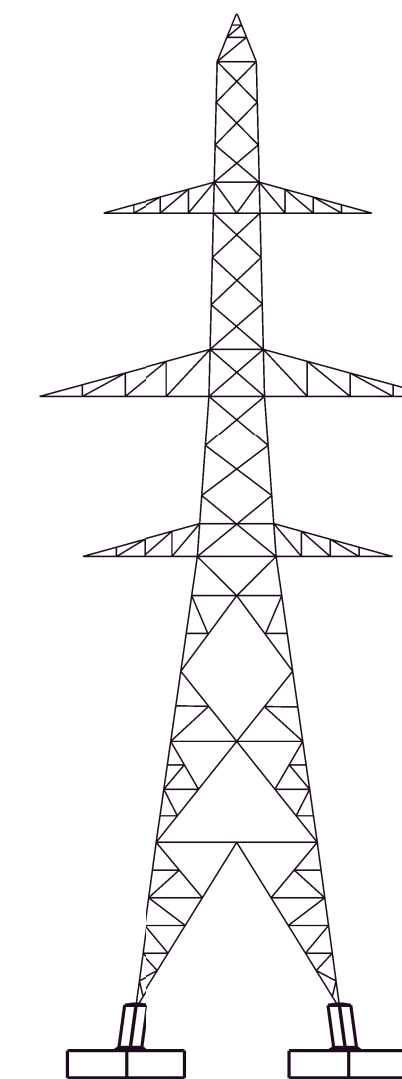
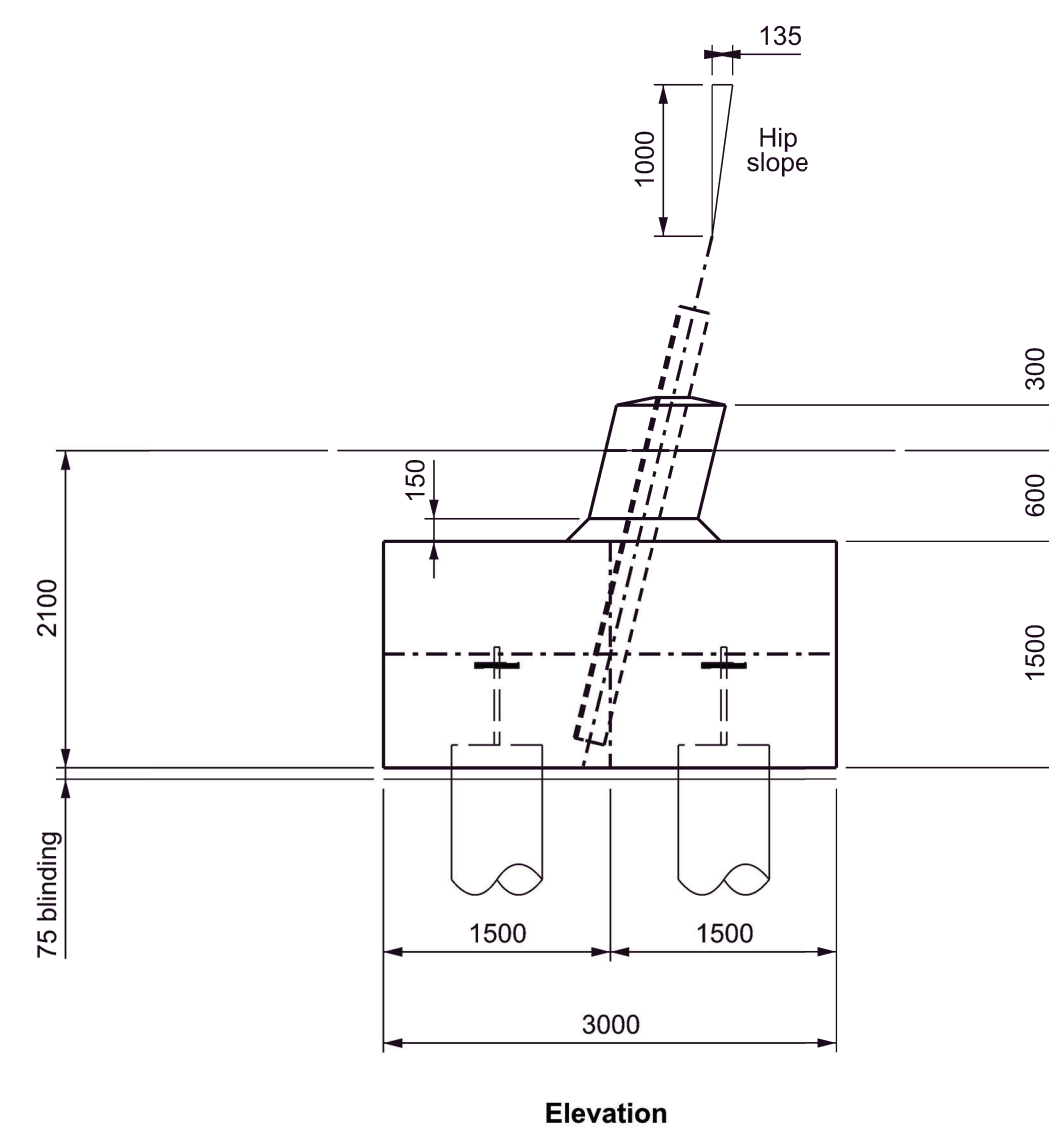
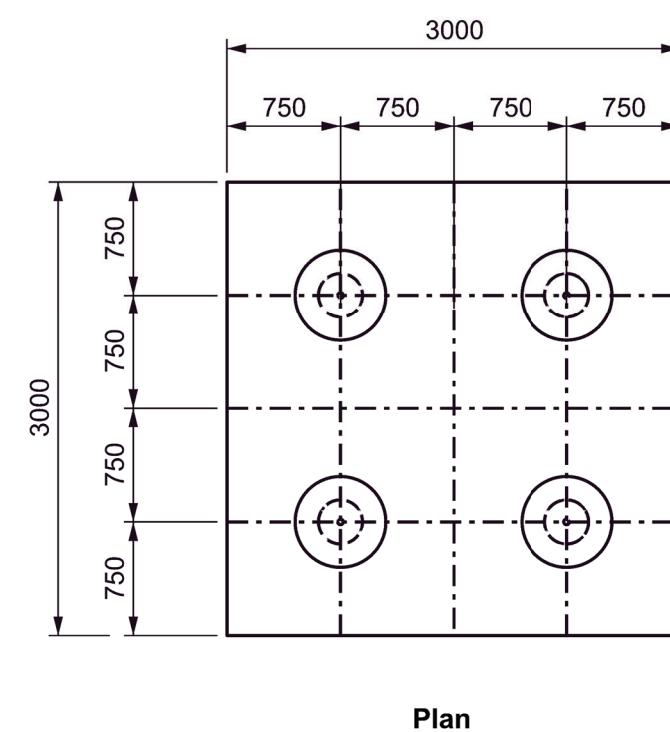
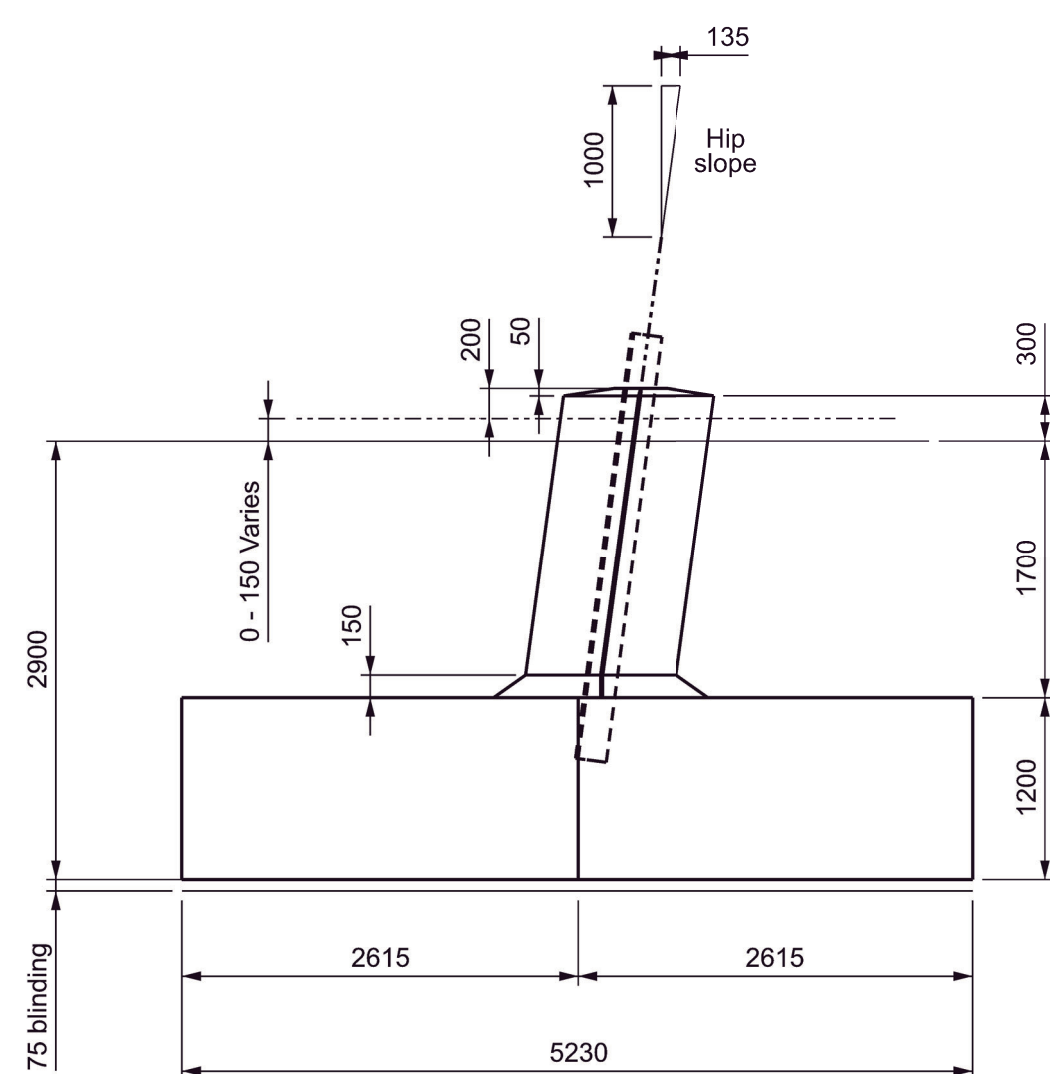
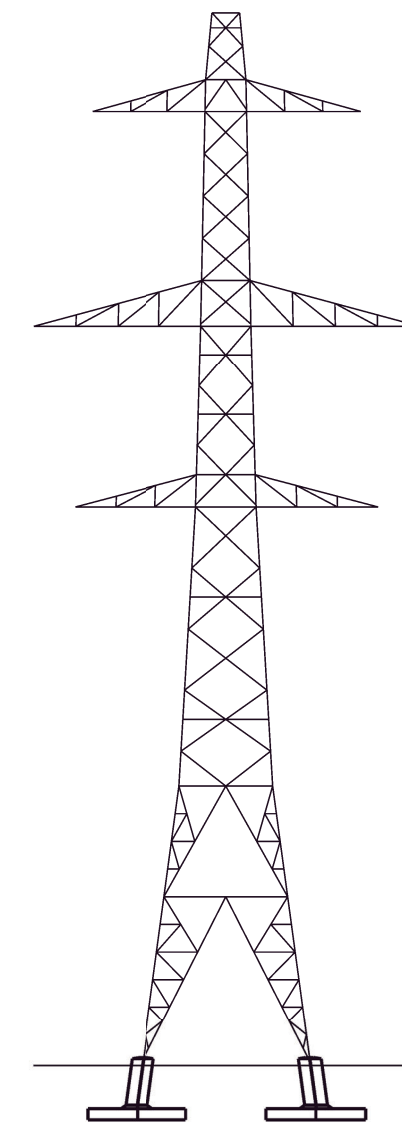
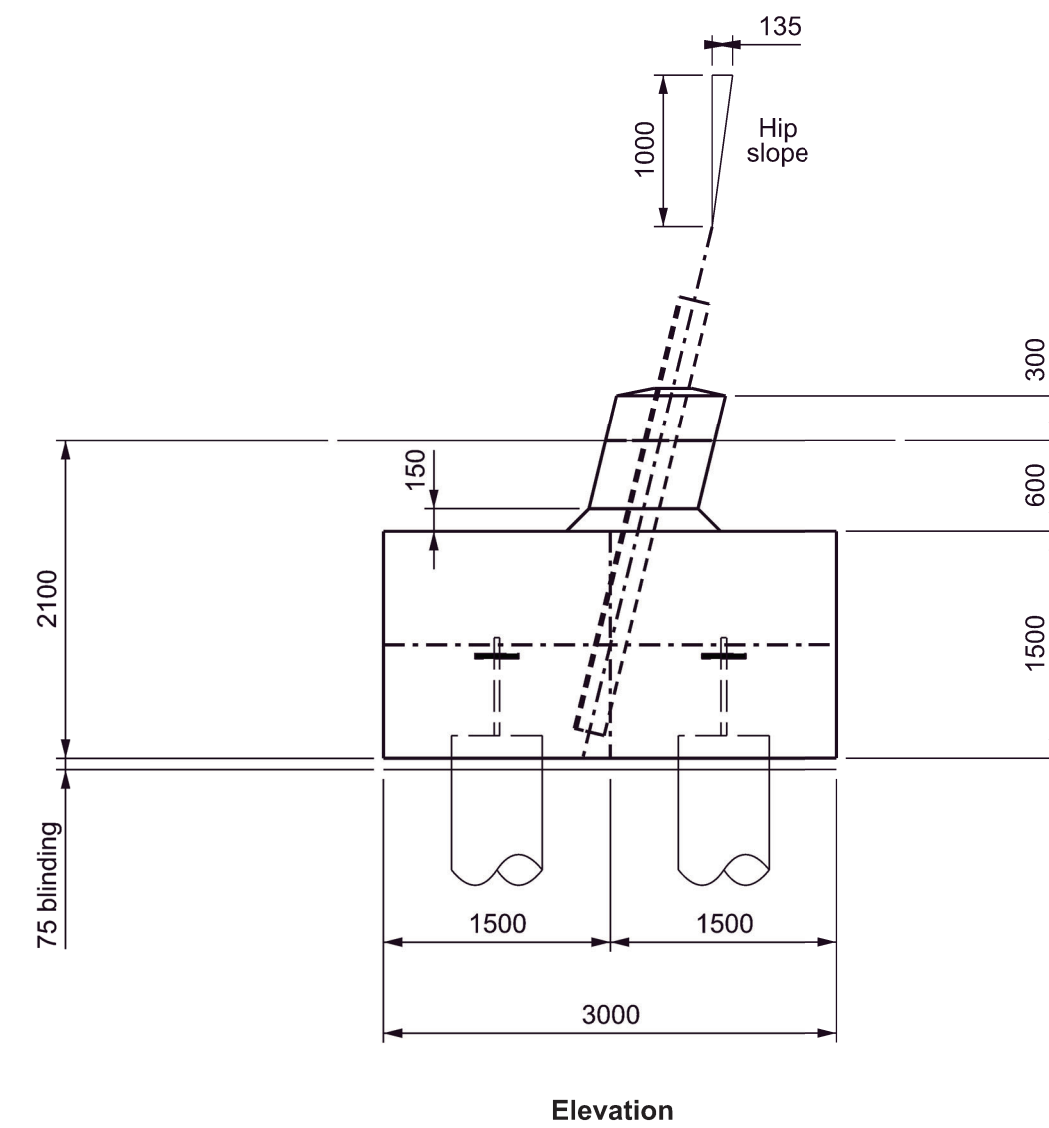
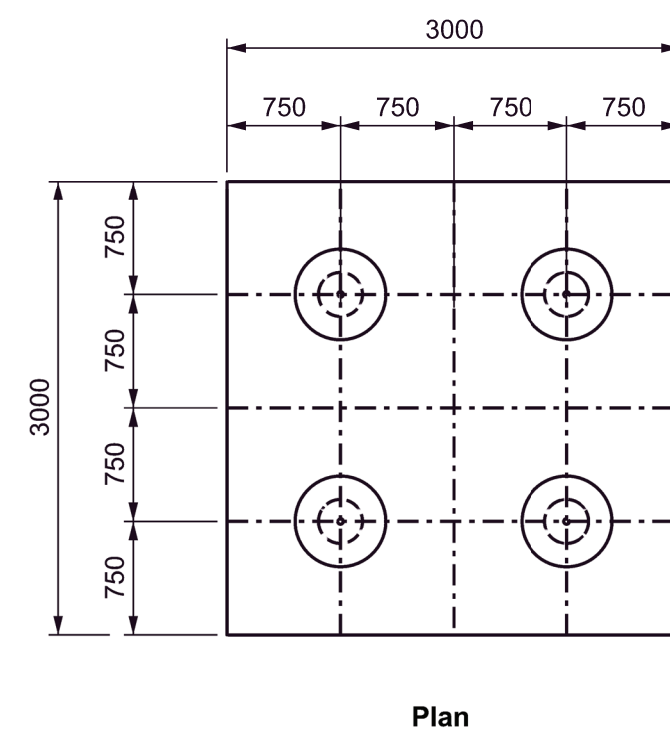
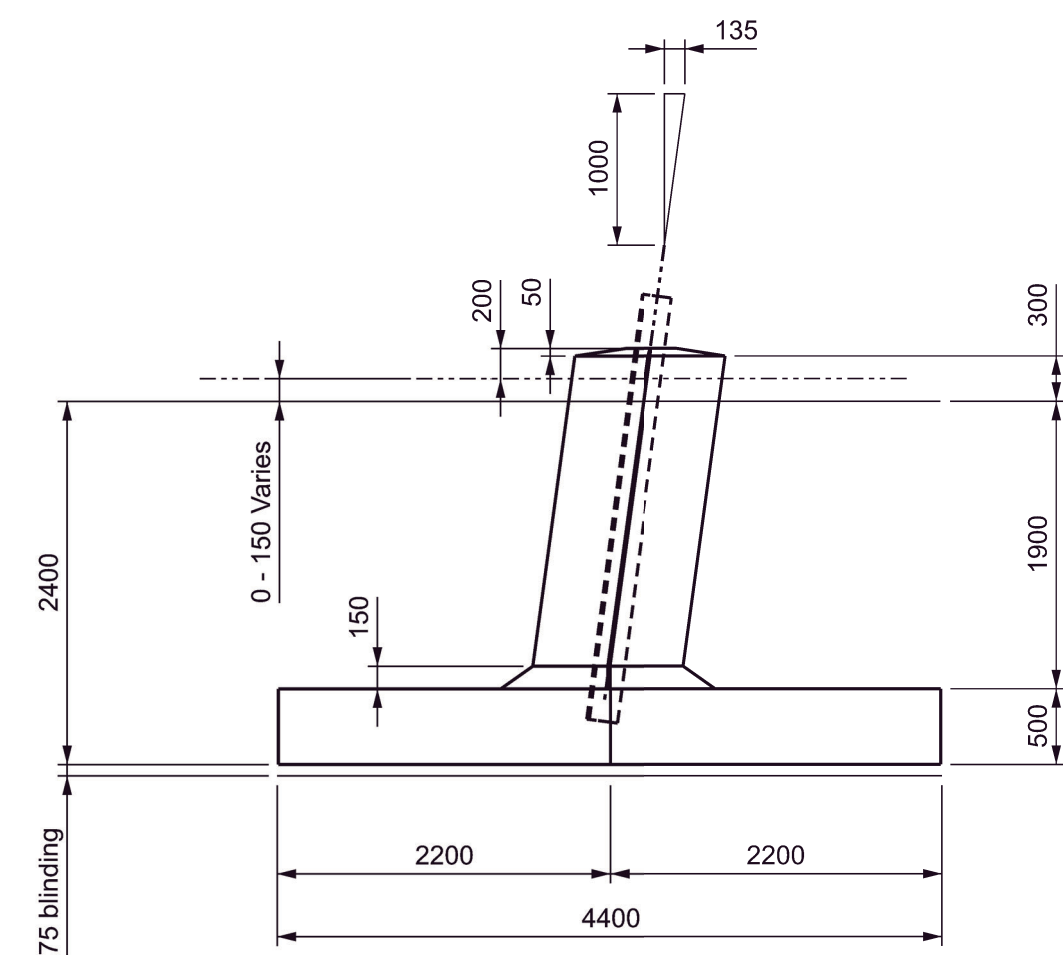
Notes

1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in millimetres (mm) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. Foundation designs are illustrative only and subject to final detail design.
6. Concrete volumes exclude minimum blinding depths.
7. Pile dimensions are estimated and would be subject to ground conditions as determined by a geotechnical investigation.
8. Pad and column type foundations are suitable for standard cohesive / granular ground as defined by National Grid Electricity Transmission Standards.

A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

Title
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE FOUNDATION DETAILS
(PAD & COLUMN AND PILE DESIGNS)
TO SUIT L13 LOW HEIGHT TYPE PYLONS
REGULATION 5(2)(o)
SHEET 4 OF 5


nationalgrid			
PINS Application Number EN020027			
National Grid Drawing Reference AENC-LSTC-ENG-DWG-0004-8			
Scale N.T.S	Sheet Size A1	Sheet SHEET 4 OF 5	Issue A



-
- 0 0.4 0.8 1.2 1.6 2
- METRES 1:50

AUG-2025	For DCO submission	BD	BK	KR					
Date	Remarks	Drawn	Checked	Approved					

**THE NATIONAL GRID
 (NORWICH TO TILBURY) ORDER
 ILLUSTRATIVE FOUNDATION DETAILS
 (PAD & COLUMN AND PILE DESIGNS)
 TO SUIT L&c TYPE PYLONS
 RIGULATION 5(2)(o)
 SHEET 5 OF 5**



INS Application Number EN20027


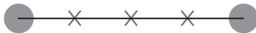

National Grid Drawing Reference AENC-LSTC-ENG-DWG-0004-8

Scale	Sheet Size	Sheet	Issue
1:50	A1	SHEET 5 OF 5	A

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE INTERLOCKING PANEL
REGULATION 5(2)(o)
SHEET 1 OF 1

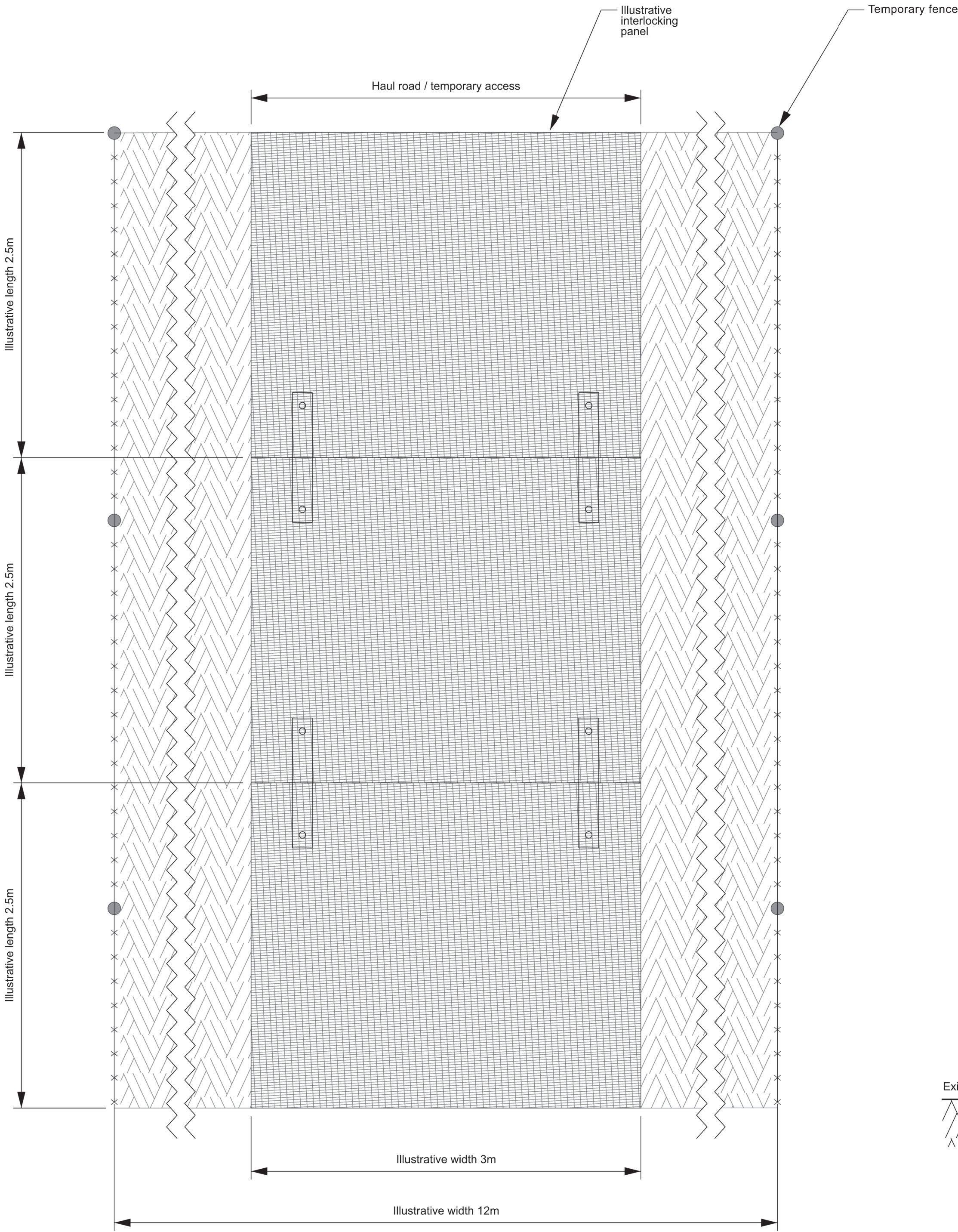
Application Document 2.6.2

LEGEND

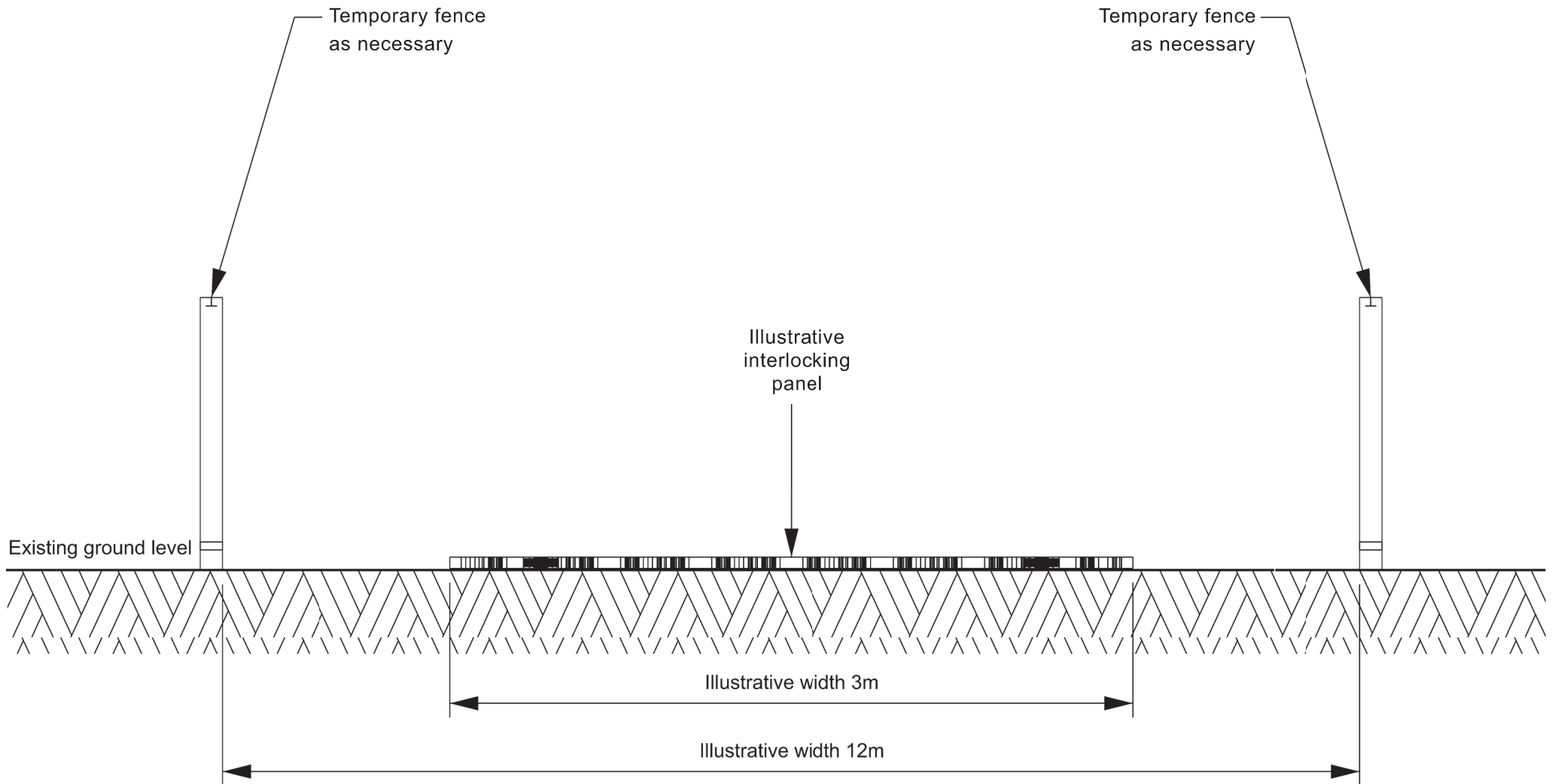
-  Illustrative interlocking panel
-  Temporary fence
-  Existing ground

Notes

1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect the accuracy of the measurement units and should not be scaled against.
5. When soft ground is encountered, additional panels to be used in accordance with manufacturers guidelines.
6. Interlocking panels widen at passing locations.



Plan view



Elevation view



A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE INTERLOCKING PANEL
REGULATION 5(2)(o)
SHEET 1 OF 1

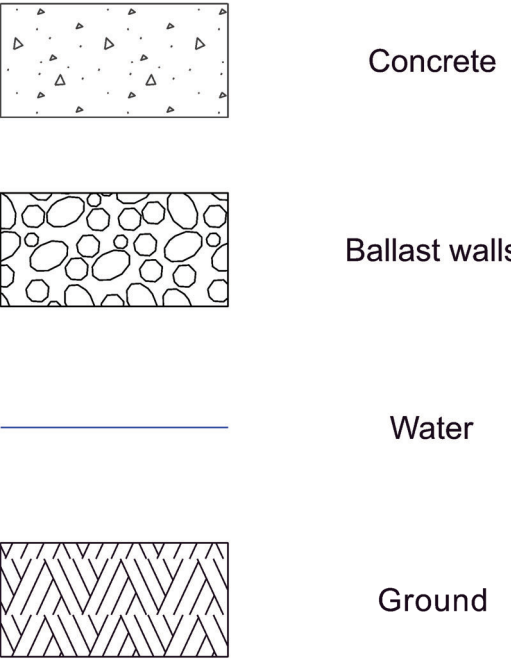
nationalgrid

PINS Application Number		EN020027	
National Grid Drawing Reference		AENC-LSTC-ENG-DWG-0004-9	
Scale	Sheet Size	Sheet	Issue
1:25	A1	SHEET 1 OF 1	A

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE BRIDGE DETAILS
REGULATION 5(2)(o)
SHEET 1 OF 1

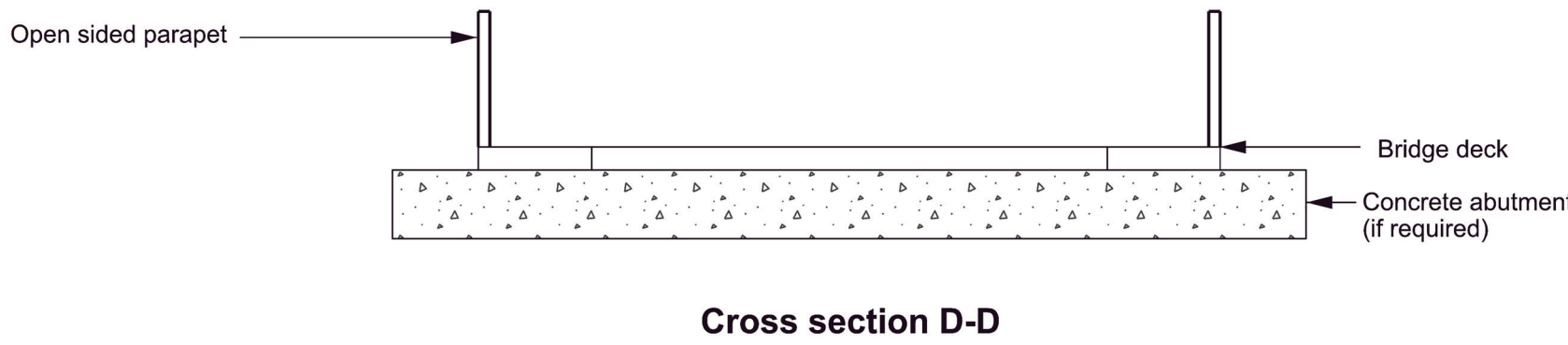
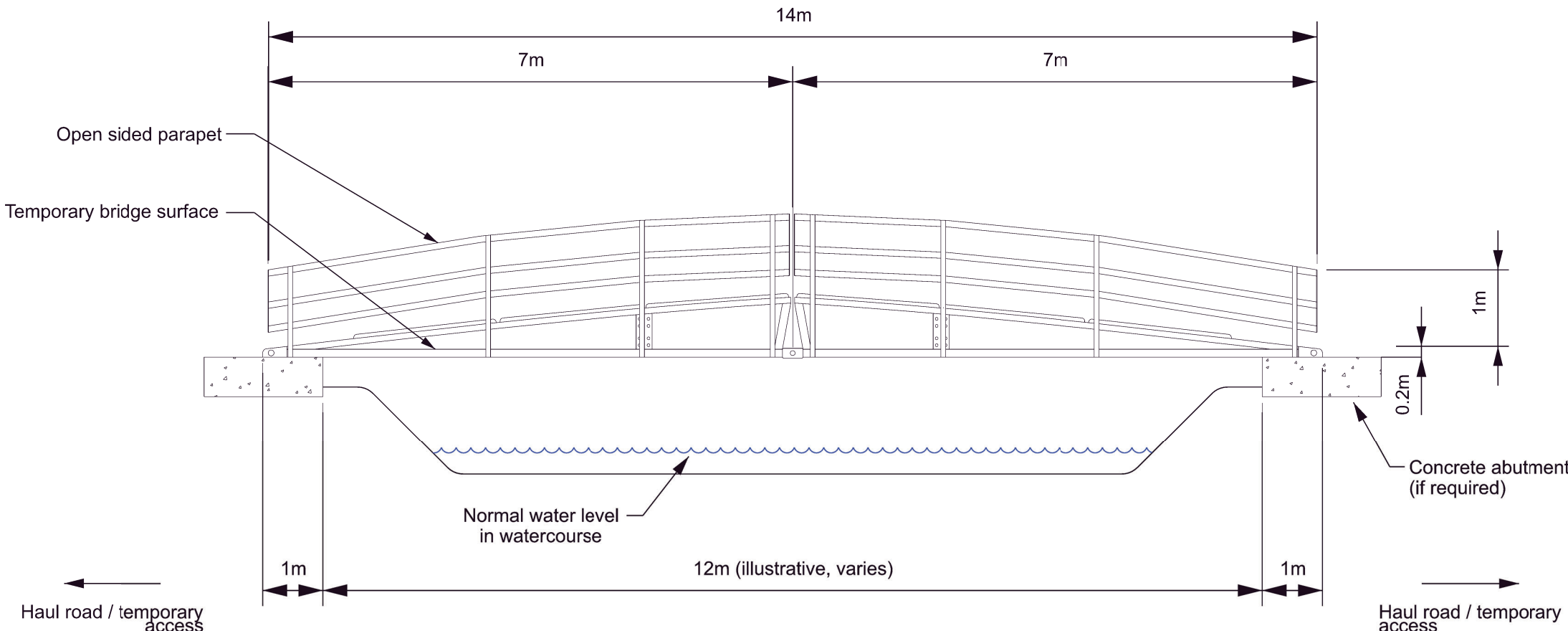
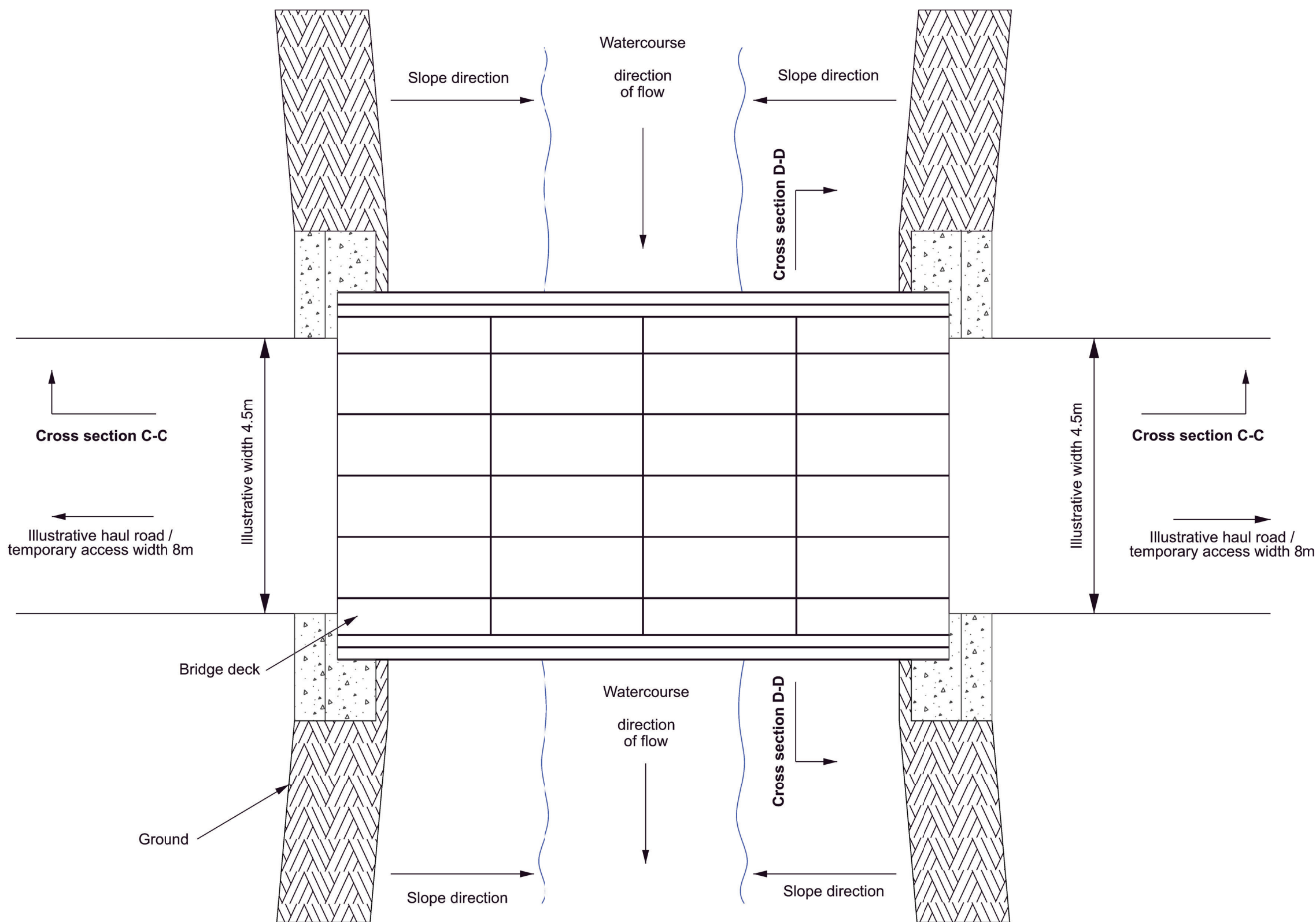
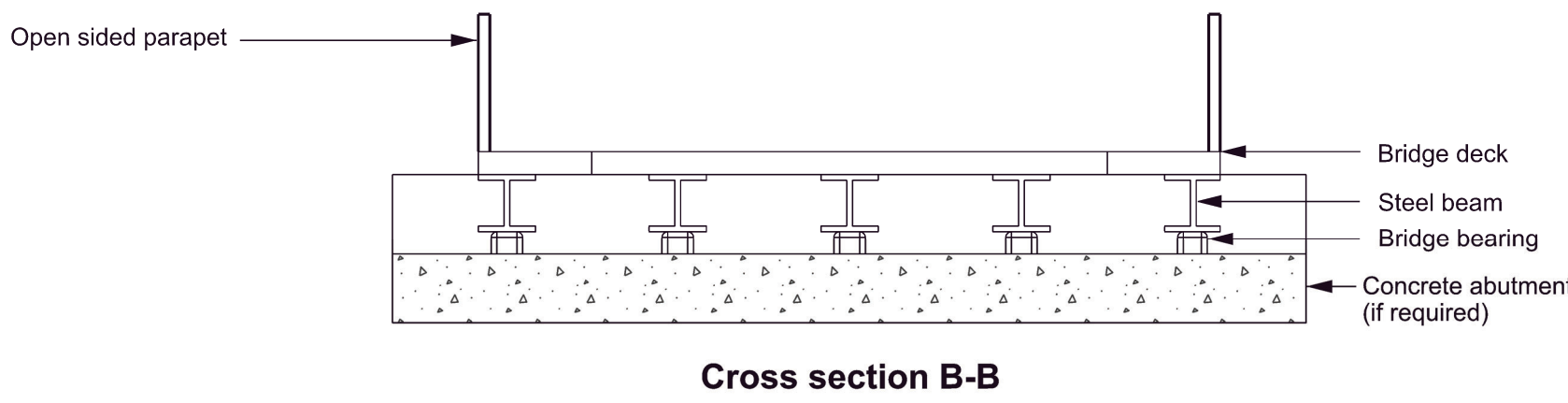
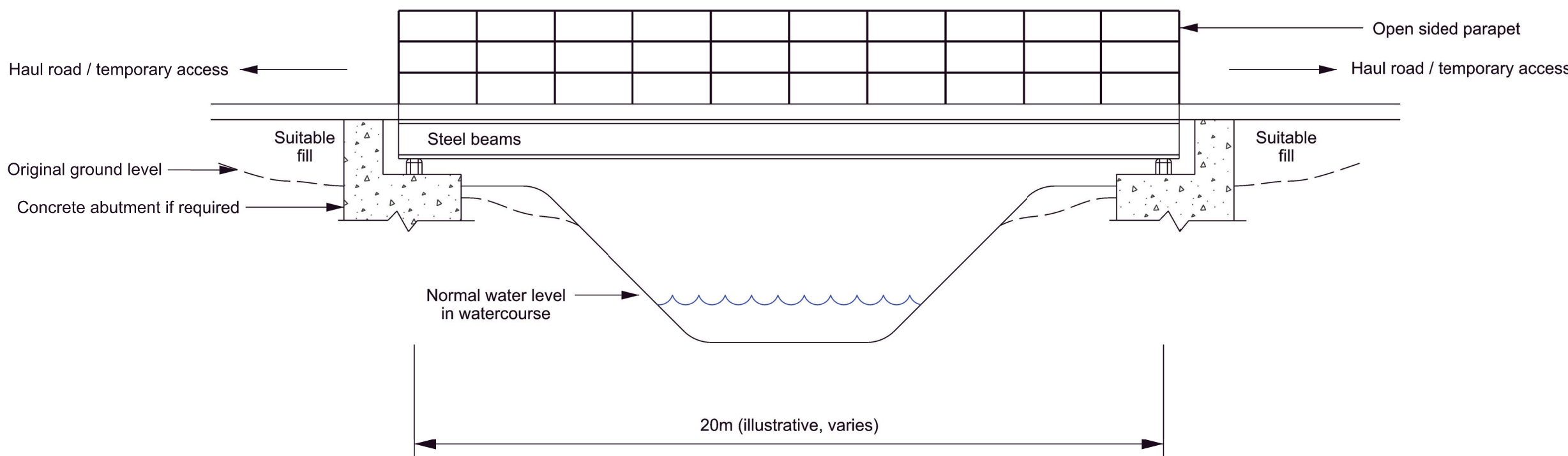
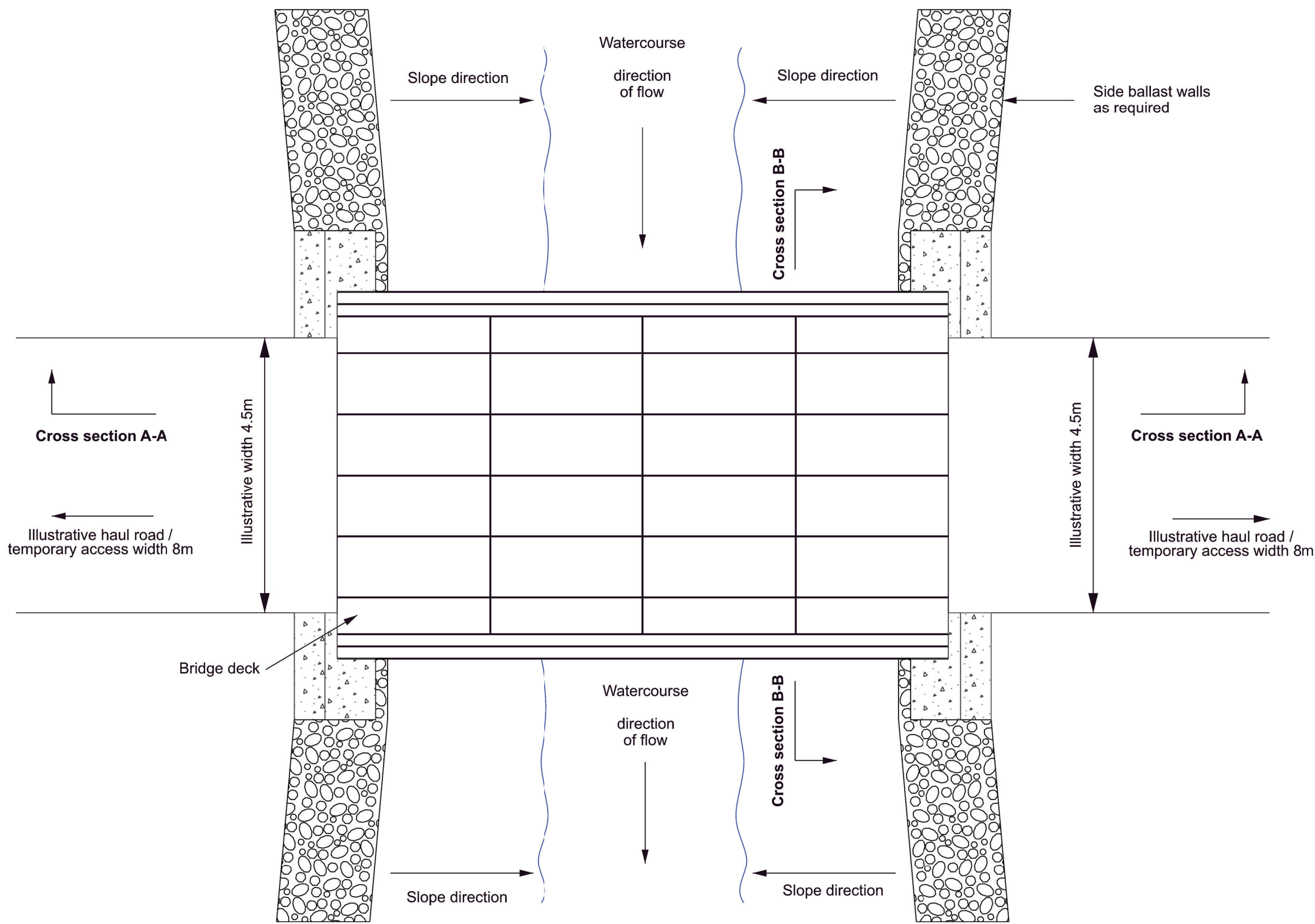
Application Document 2.6.2

LEGEND



Notes


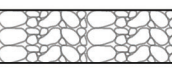



1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. Alternative materials can be used for concrete abutments, if required.
5. Alternate temporary bridge design may be used where possible.



A	AUG-2025	For DCO submission	BD	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

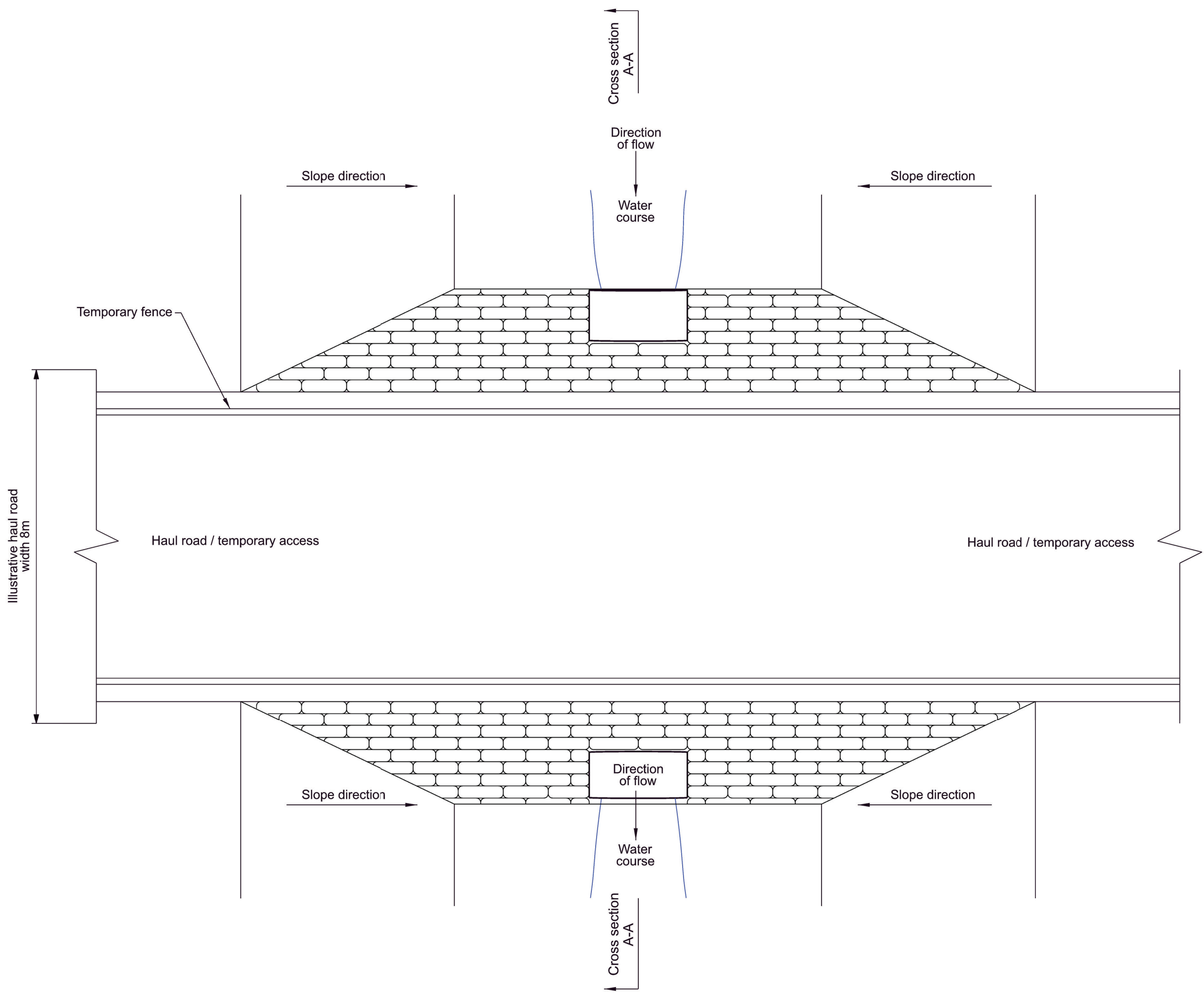
THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE BRIDGE DETAILS
REGULATION 5(2)(o)
SHEET 1 OF 1

nationalgrid					
PINS Application Number EN20027					
National Grid Drawing Reference AENC-LSTC-ENG-DWG-0004-10					
Scale	Sheet Size	Sheet	Issue		
N.T.S	A1	SHEET 1 OF 1	A		

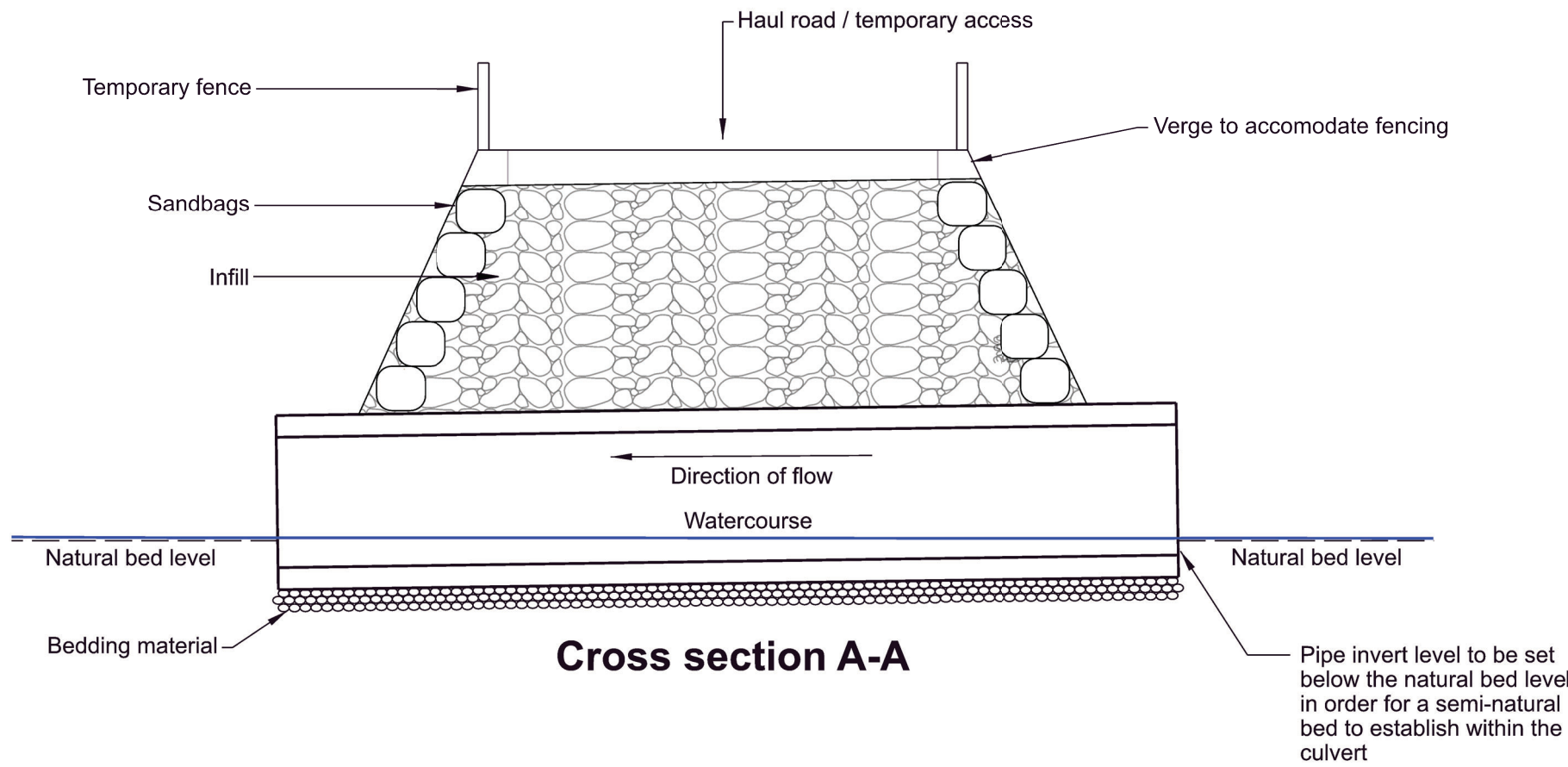
-  Sandbag
-  Infill
-  Bedding material
-  Water
-  Temporary fence

Notes

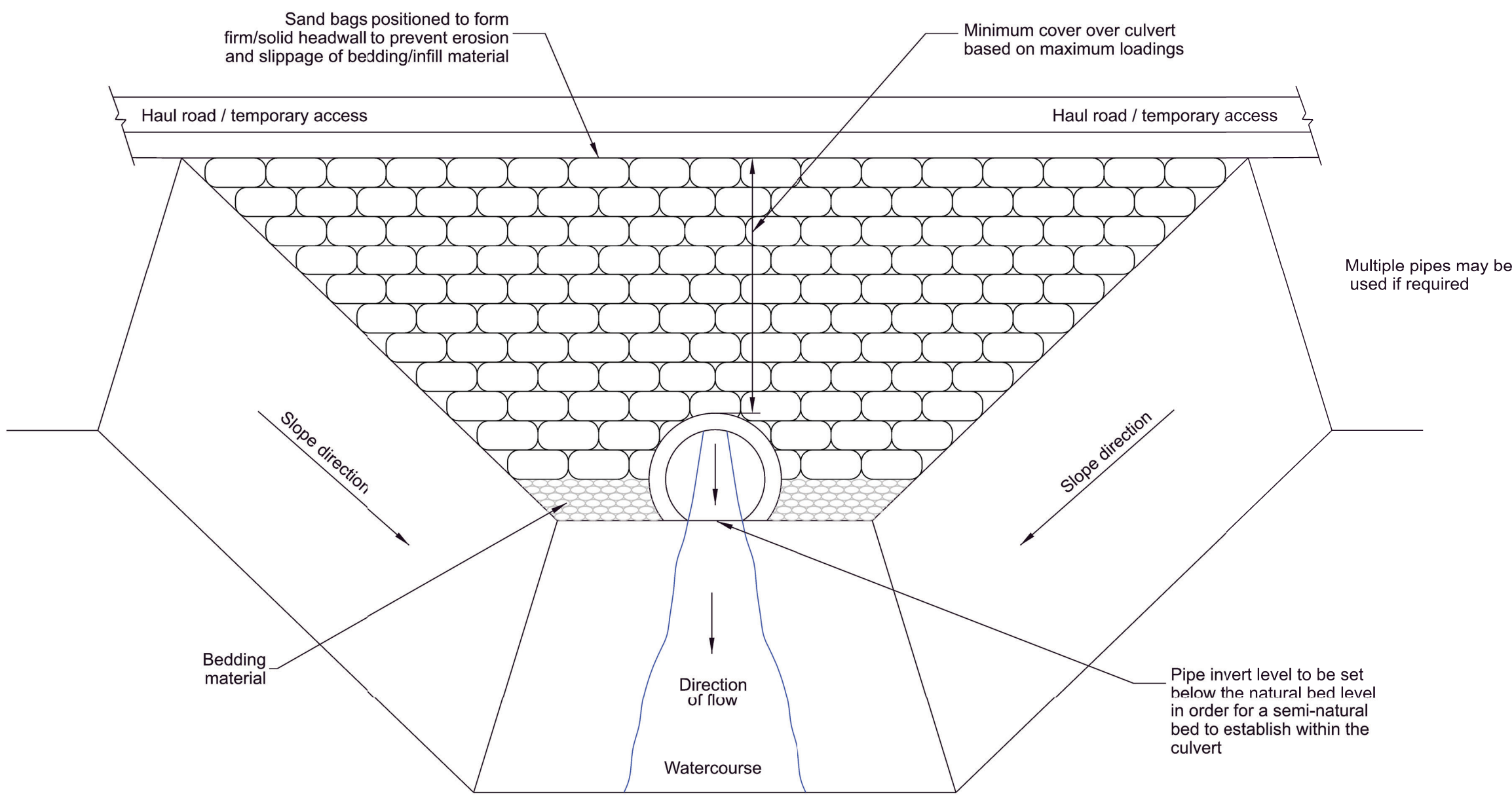
1. These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
2. For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
3. All dimensions are approximate and indicated in metres (m) unless noted otherwise.
4. Fence omitted for clarity in perspective view.
5. Sizing of culvert to be site specific if culvert is temporary.
6. Burying the culvert invert to allow a natural bed to form would necessitate over sizing the culvert.



Plan view



Cross section A-A



Perspective view

A	AUG-2025	For DCO submission	BD	BK	KR

Issue	Date	Remarks	Drawn	Checked	Approved
-------	------	---------	-------	---------	----------

Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE CULVERT
CONSTRUCTION DETAILS
REGULATION 5(2)(o)
SHEET 1 OF 1

nationalgrid

PINS Application Number
EN020027

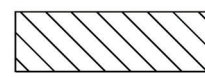












National Grid Drawing Reference
AENC-LSTC-ENG-DWG-0004-11

Scale	Sheet Size	Sheet	Issue
N.T.S	A1	SHEET 1 OF 1	A

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE OVERHEAD LINE MAIN CONSTRUCTION COMPOUND
REGULATION 5(2)(o)
SHEET 1 OF 1

Application Document 2.6.2

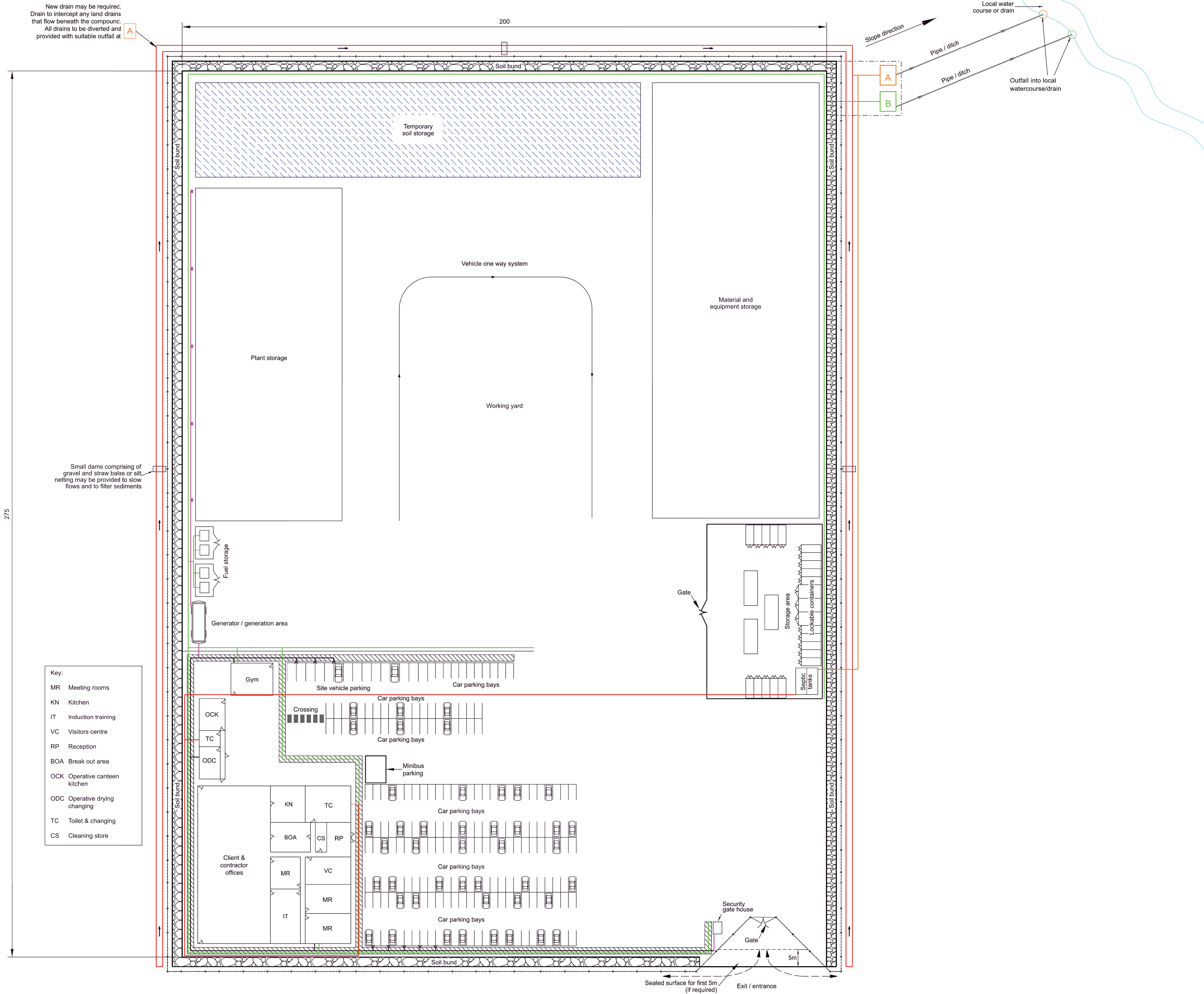
LEGEND

-  Pedestrian access
-  Soil bund
-  Temporary soil storage
-  Interceptor ditch
-  Small dams comprising of gravel and straw bales or silt netting may be provided to slow flows and to filter sediments
-  Raw sewage
-  Surface water
-  Watercourse / drain
-  Electricity cabling
-  Lighting
-  Fenceline
-  Pipe / ditch
-  Gate

- A** Offsite surface & subsurface drainage flows and treated discharge from septic plant conveyed into siltation sump / retention facilities. flows from this discharged to either water course, existing drains or via new soakaway if ground conditions allow.
- B** Compound surface water flows from all impermeable areas including: car park, cabins, lay down area etc. conveyed into siltation sump, oil filter and retention facility. flows of water discharged from facilities must be restricted to flow rates equivalent or lower than existing green field runoff rates.

Notes

- These plans are illustrative and will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its DCO, within which any final alignment would lie.
- For additional detail on the plan suites, please refer to the Guide to the plans (document reference 2.0), located in the Volume 2 of the DCO application.
- Dimensions and layout arrangement shown are illustrative only. Design will vary according to the available area, the specific site constraints and the construction contractors requirements.
- Soil bund may be designed with suitable gaps / drainage pipes to allow water flow in flood conditions.
- Drawing shows an Illustrative Main Construction Compound. Satellite Construction Compounds are similar yet scaled to an appropriately smaller size.
- Soil within compound to be stripped and compounds temporarily surfaced.
- Site cabins may be double storey and may be raised to take account of potential flood risk.



Key:

MR	Meeting rooms
KN	Kitchen
IT	Induction training
VC	Visitors centre
RP	Reception
BOA	Break out area
OCK	Operative canteen kitchen
ODC	Operative drying changing
TC	Toilet & changing
CS	Cleaning store

A	AUG-2025	For DCO submission	AC	BK	KR
Issue	Date	Remarks	Drawn	Checked	Approved

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
ILLUSTRATIVE OVERHEAD LINE
MAIN CONSTRUCTION COMPOUND
REGULATION 5(2)(o)
SHEET 1 OF 1

nationalgrid				
PINS Application Number				
END20027				
National Grid Drawing Reference				
AENC-LSTC-ENG-DWG-0004-12				
Scale	Sheet Size	Sheet	Issue	
N.T.S.	A1	SHEET 1 OF 1	A	