

YG-DCO-022-A

Yorkshire Green Energy Enablement (GREEN) Project

Volume 2

Document 2.16 Construction Plans

Final Issue A

November 2022

Planning Inspectorate Reference: EN020024

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

nationalgrid

NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
LIST OF CONSTRUCTION PLANS
REGULATION 5(2)(o)
SHEET 1 OF 1

Legend

Notes


1. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.

2. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

DOCUMENT NUMBER	PLAN TITLE	SHEET NUMBER	REVISION
DCO_CO/PS/1_01	LIST OF CONSTRUCTION PLANS	1 OF 1	A
DCO_CO/PS/2_01	CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLONS	1 OF 4	A
DCO_CO/PS/2_02	CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLON FOOTPRINTS	2 OF 4	A
DCO_CO/PS/2_03	CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLON FOUNDATIONS	3 OF 4	A
DCO_CO/PS/2_04	CONSTRUCTION PLAN: INDICATIVE OVERHEAD LINE LIMITS OF DEVIATION	4 OF 4	A
DCO_CO/PS/3_01	CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLON WORKING AREAS	1 OF 2	A
DCO_CO/PS/3_02	CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLON CONDUCTOR PULLING POSITIONS	2 OF 2	A
DCO_CO/PS/4_01	CONSTRUCTION PLAN: ILLUSTRATIVE BELLMOUTH LAYOUT	1 OF 6	A
DCO_CO/PS/4_02	CONSTRUCTION PLAN: ILLUSTRATIVE STONE ACCESS ROAD	2 OF 6	A
DCO_CO/PS/4_03	CONSTRUCTION PLAN: ILLUSTRATIVE INTERLOCKING PANEL ACCESS FOR OVERHEAD LINE CONSTRUCTION	3 OF 6	A
DCO_CO/PS/4_04	CONSTRUCTION PLAN: ILLUSTRATIVE CULVERT CONSTRUCTION DETAILS	4 OF 6	A
DCO_CO/PS/4_05	CONSTRUCTION PLAN: ILLUSTRATIVE BRIDGE DETAILS FOR OVERHEAD LINE CONSTRUCTION	5 OF 6	A
DCO_CO/PS/4_06	CONSTRUCTION PLAN: ILLUSTRATIVE CONSTRUCTION COMPOUND	6 OF 6	A
DCO_CO/PS/5_01	CONSTRUCTION PLAN: ILLUSTRATIVE UNDERGROUND CABLE CROSS SECTION	1 OF 2	A
DCO_CO/PS/5_02	CONSTRUCTION PLAN: ILLUSTRATIVE UNDERGROUND CABLE HORIZONTAL DIRECTIONAL DRILL CROSS SECTION	2 OF 2	A
DCO_CO/PS/6_01	CONSTRUCTION PLAN: ILLUSTRATIVE SUBSTATION EQUIPMENT	1 OF 4	A
DCO_CO/PS/6_02	CONSTRUCTION PLAN: ILLUSTRATIVE SUBSTATION EQUIPMENT	2 OF 4	A
DCO_CO/PS/6_03	CONSTRUCTION PLAN: ILLUSTRATIVE SUBSTATION EQUIPMENT	3 OF 4	A
DCO_CO/PS/6_04	CONSTRUCTION PLAN: ILLUSTRATIVE SUBSTATION EQUIPMENT	4 OF 4	A

A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD
Issue	Date	Remarks	Drawn	Checked	Approved

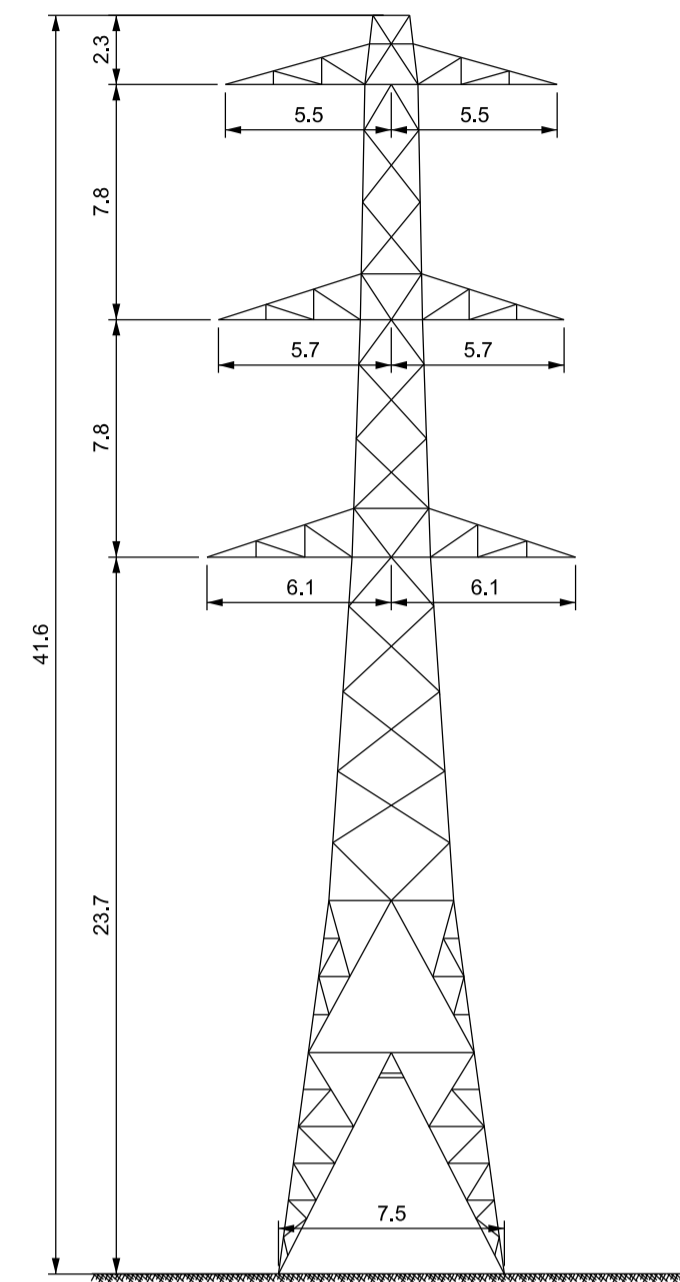
Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 LIST OF CONSTRUCTION PLANS
 REGULATION 5(2)(o)
 SHEET 1 OF 1

			
Application Number		EN020024	
National Grid Drawing Reference		DCO_CO/PS/1_01	
Scale	Sheet Size	Sheet	Issue
N.T.S	A1	SHEET 1 OF 1	A

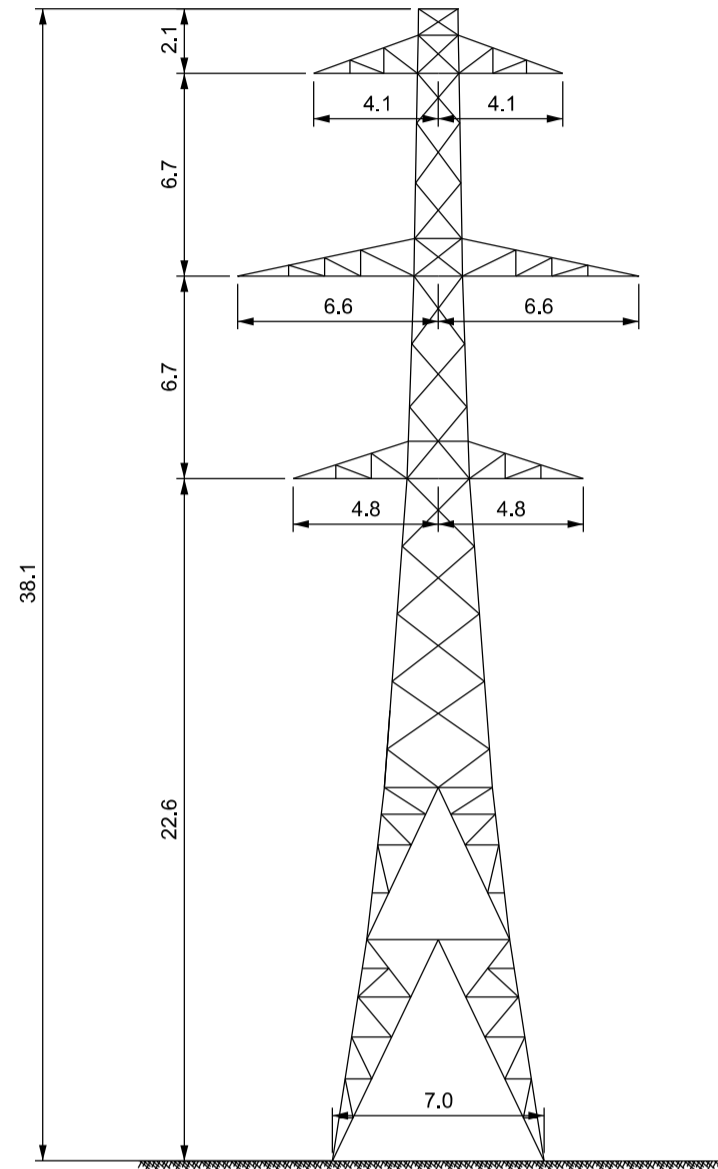
Page intentionally blank

NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLONS
 REGULATION 5(2)(o)
 SHEET 1 OF 4

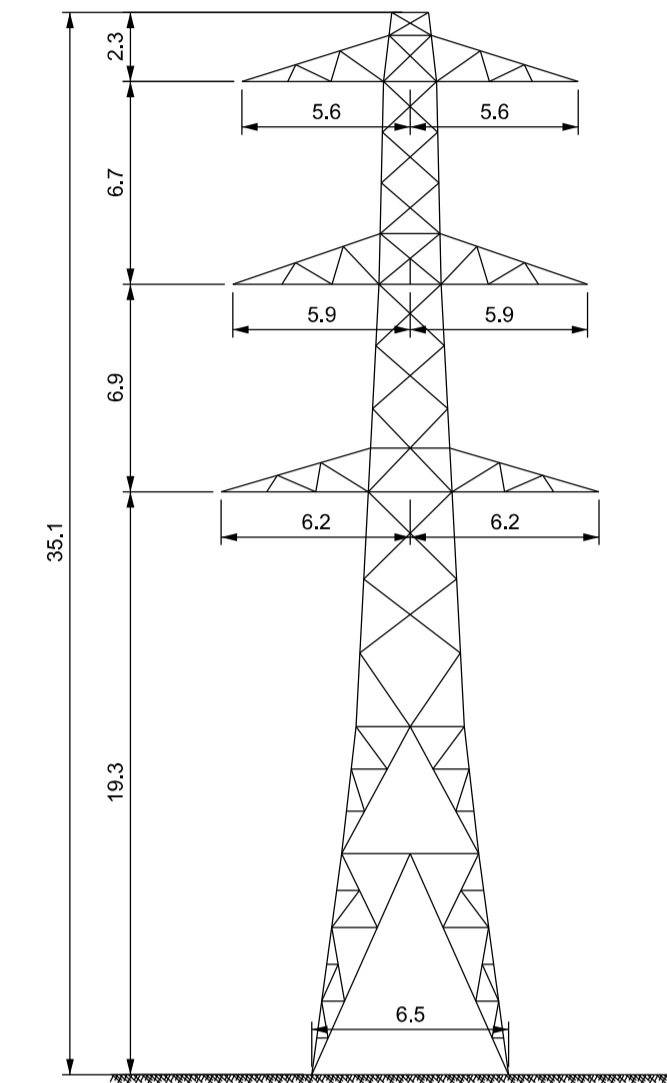
Legend



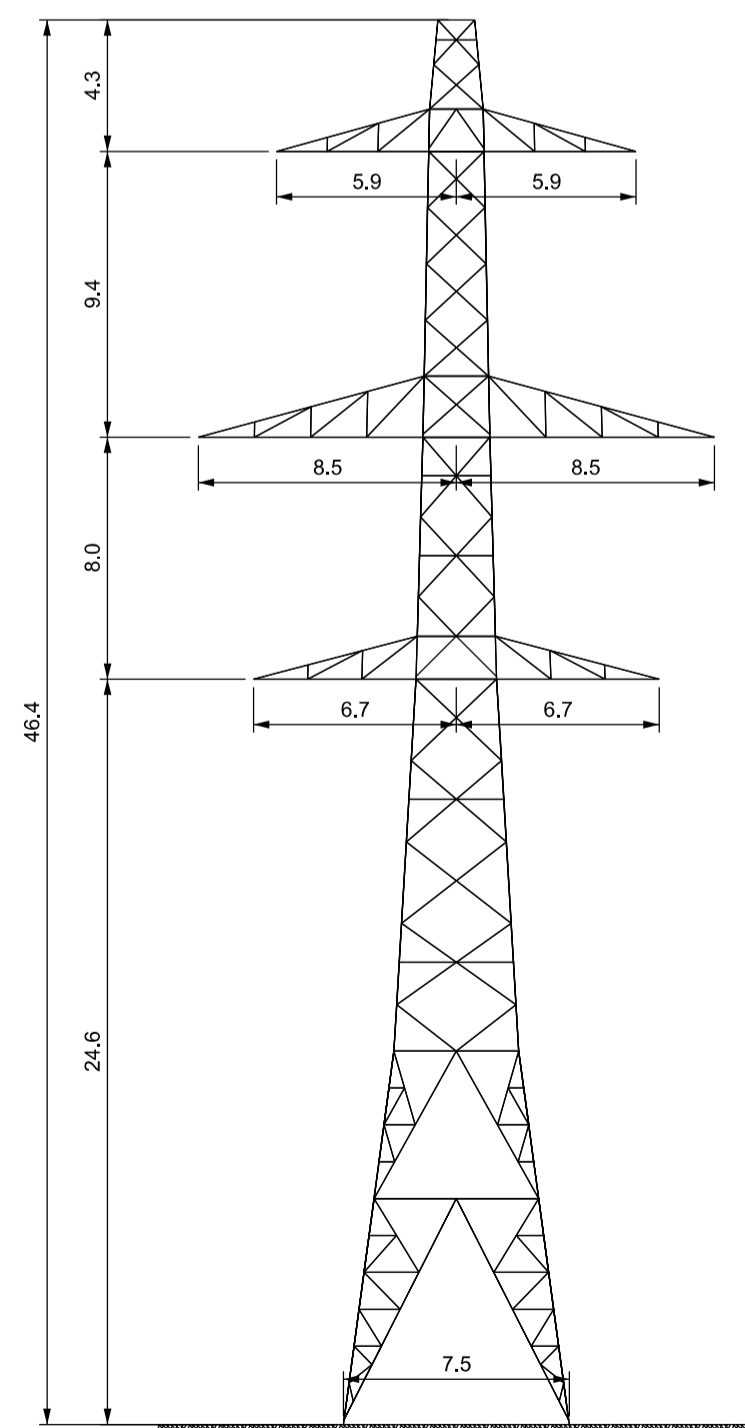
L2 D STD
EXISTING PYLON



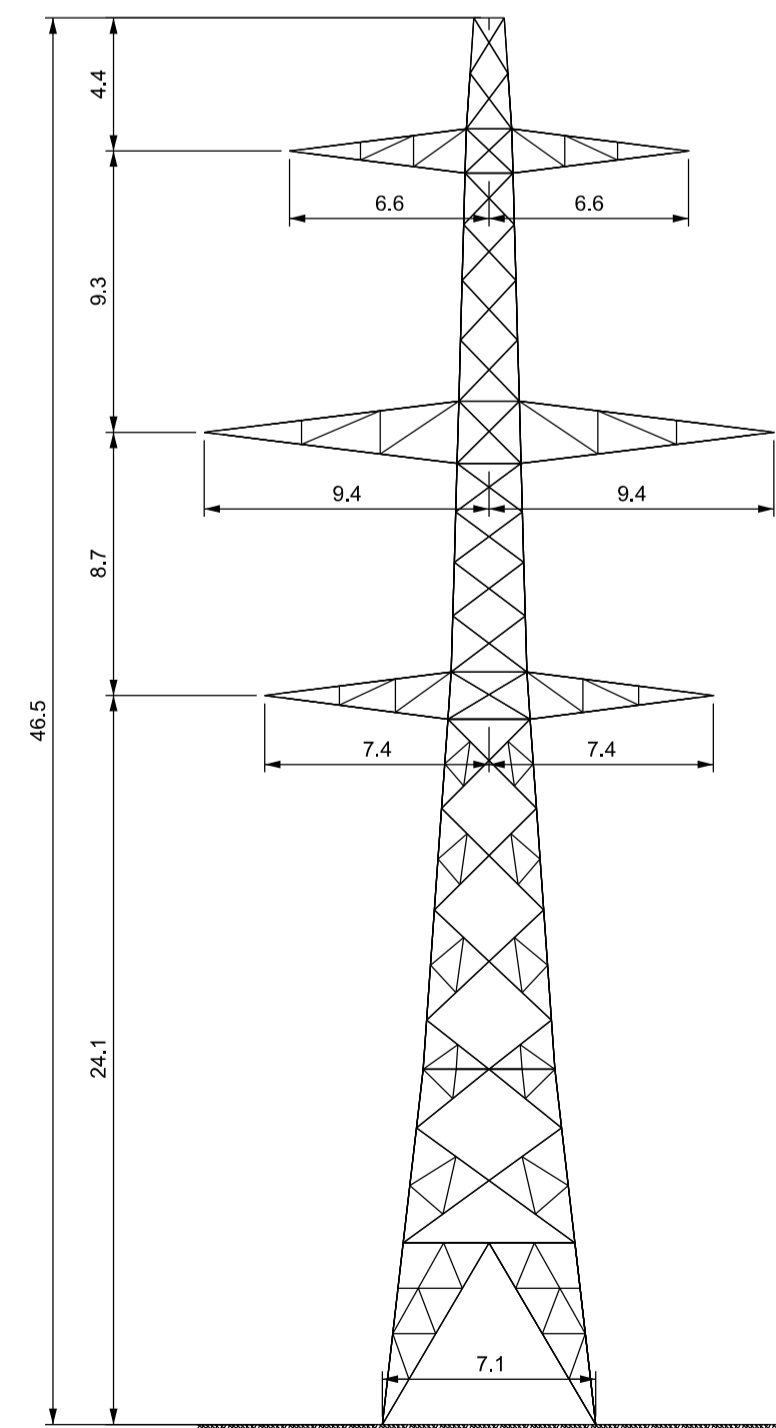
L3 DS STD
EXISTING PYLON



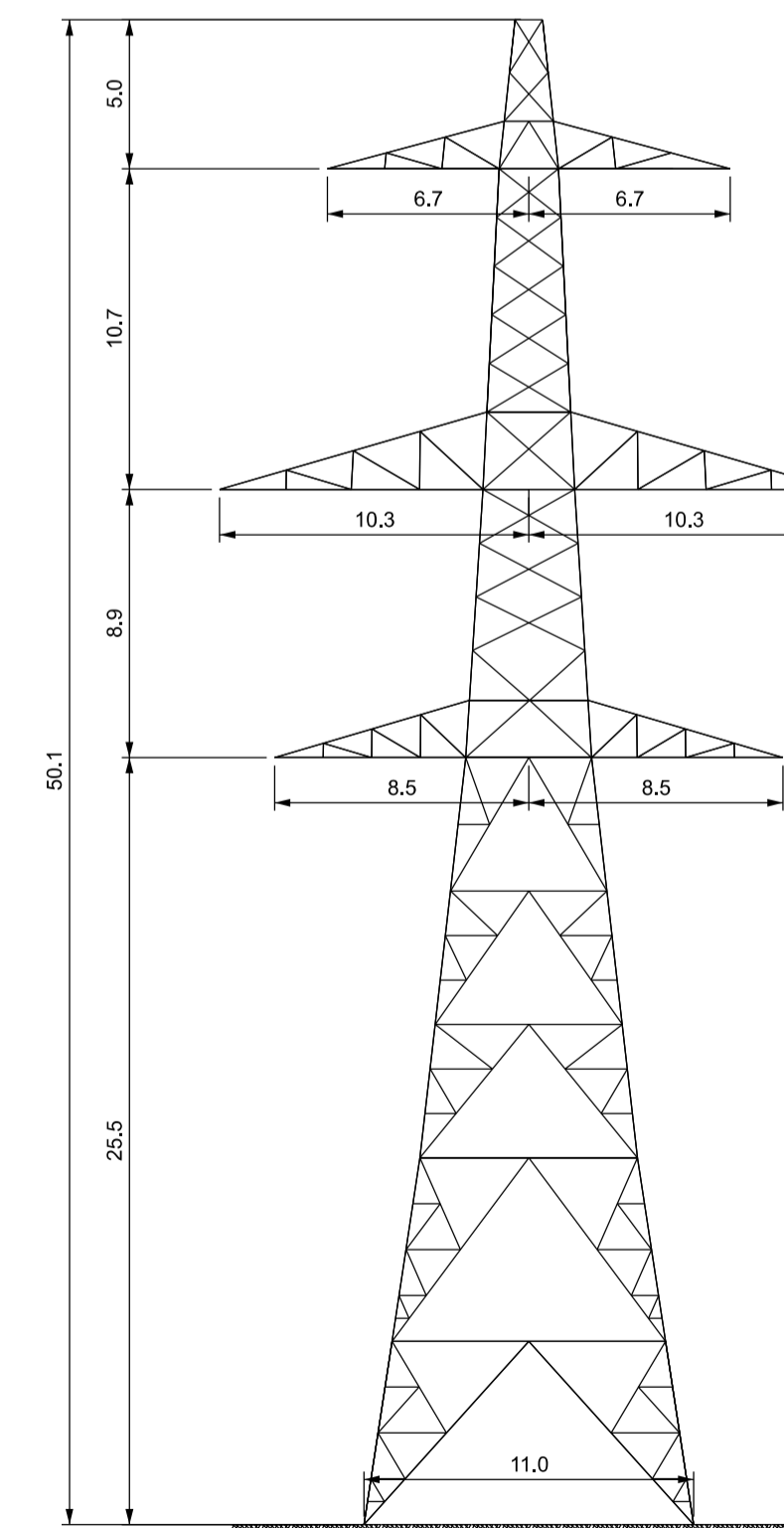
L66 D2 STD
EXISTING PYLON



L8(c) D STD
PROPOSED PYLON



L12 D STD
PROPOSED PYLON



L6 D STD
EXISTING PYLON

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE.
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. PYLON LEG SPACING AT GROUND LEVEL ASSUMES LEVEL GROUND CONDITIONS.
4. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

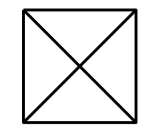
Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD

Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE
 LATTICE PYLONS
 REGULATION 5(2)(o)
 SHEET 1 OF 4

nationalgrid				
Application Number		EN020024		
National Grid Drawing Reference				
		DCO_CO/PS/2_01		
Scale	Sheet Size	Sheet	Issue	
N.T.S	A1	SHEET 1 OF 4	A	

NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLON FOOTPRINTS
 REGULATION 5(2)(o)
 SHEET 2 OF 4

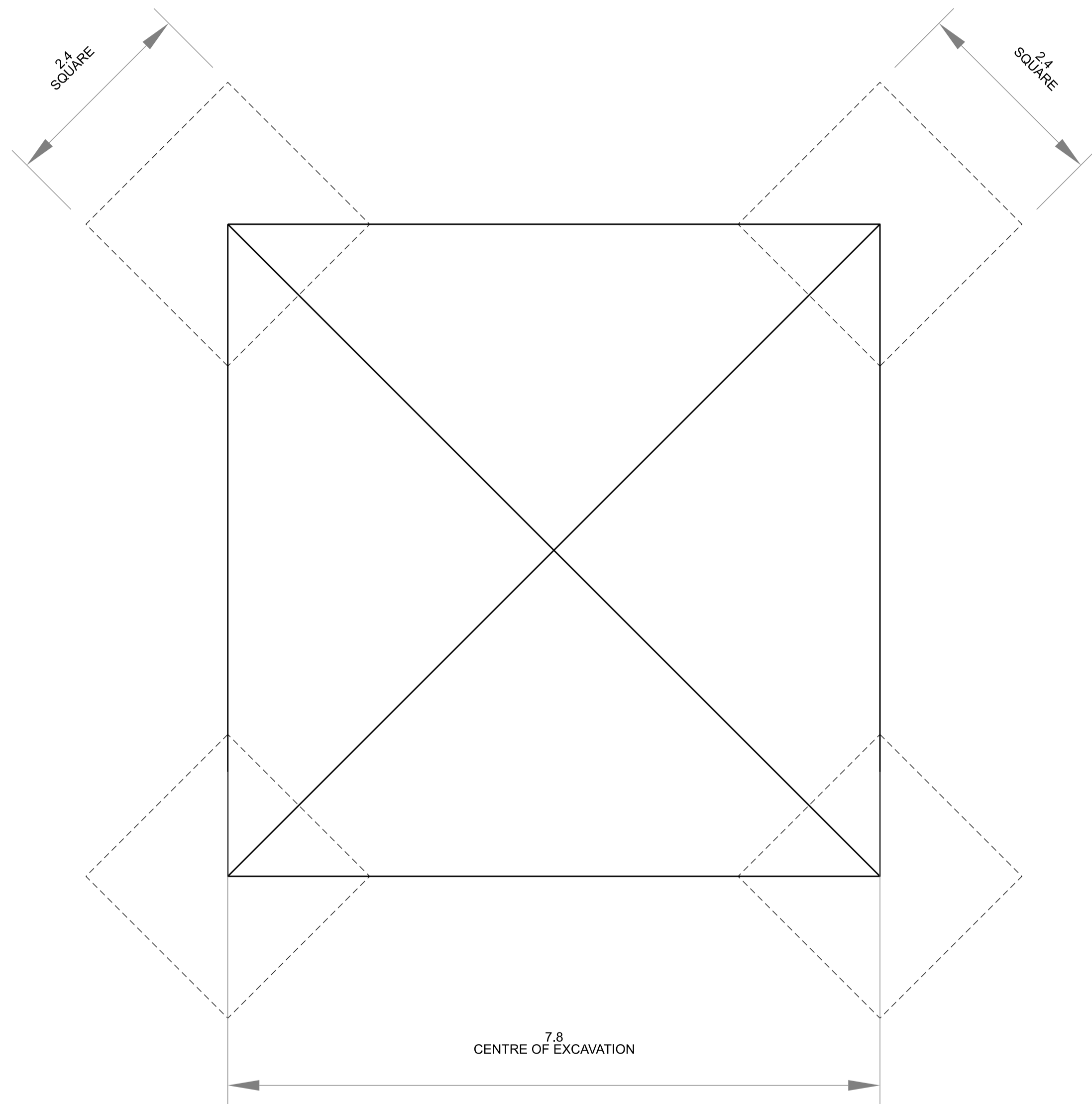
Legend



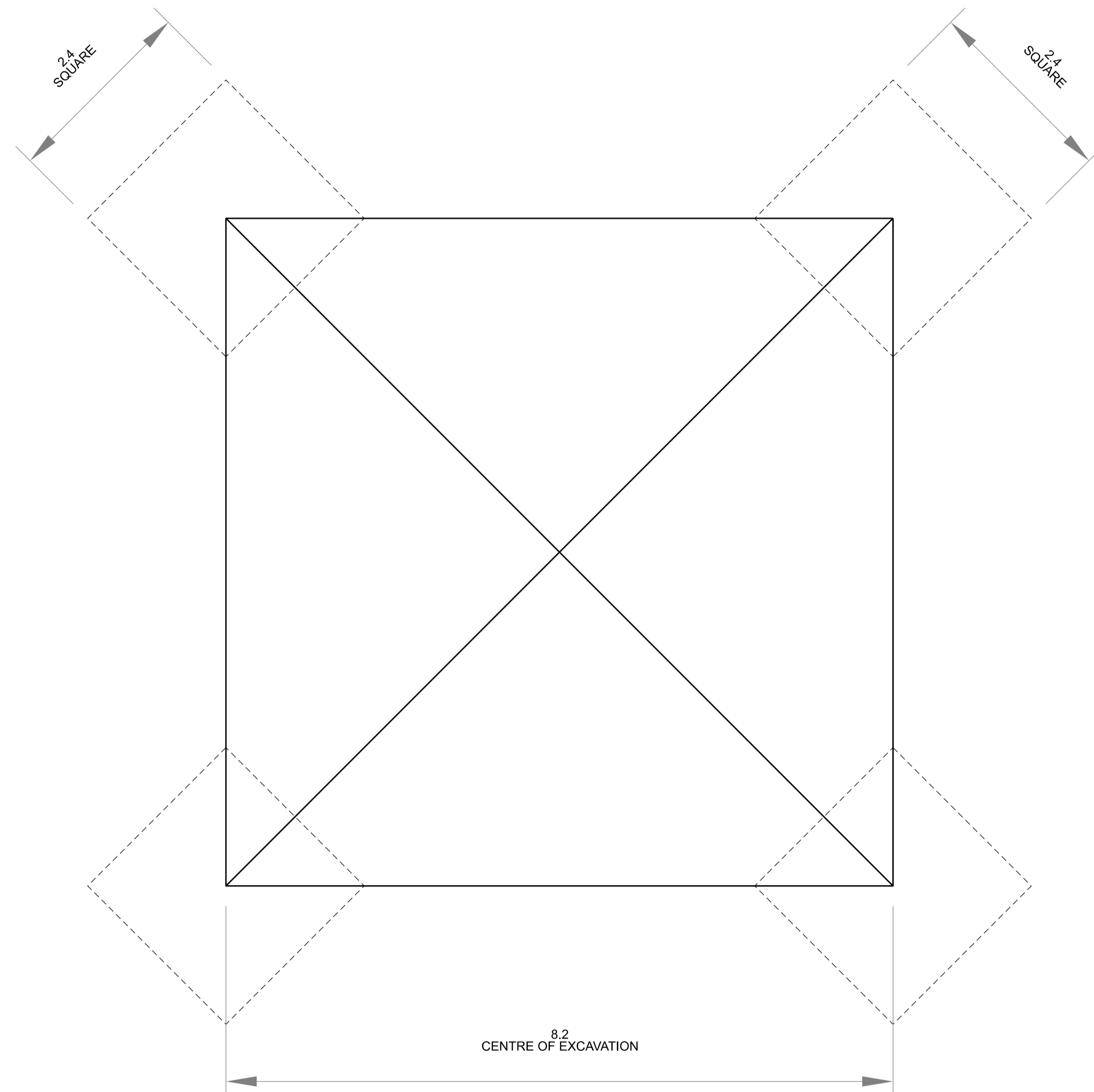
PYLON FOOTPRINT



FOUNDATION
(BELOW GROUND LEVEL)



L12 D STD



L8(c) D STD

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE.
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. REFER TO DRAWINGS BK35_21001, 02 & 03 FOR LATTICE PYLON DESIGN.
4. THIS SHEET ILLUSTRATES IN PLAN A PAD AND COLUMN FOUNDATION, REFER TO DRAWING BK35-8744 & BK17_11603 FOR OTHER FOUNDATION SIZES.
5. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD

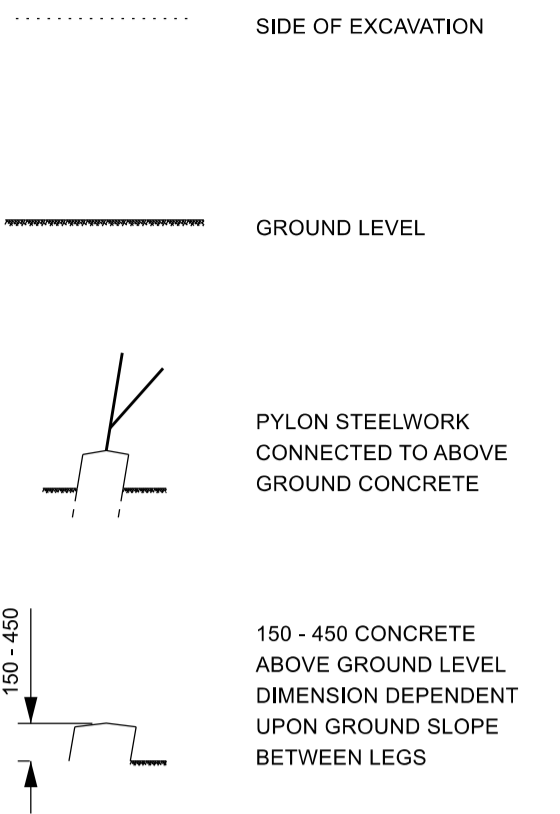
Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE
 PYLON FOOTPRINTS
 REGULATION 5(2)(o)
 SHEET 2 OF 4



Application Number	EN020024			
National Grid Drawing Reference	DCO_CO/PS/2_02			
Scale	Sheet Size	Sheet	Issue	
N.T.S	A1	SHEET 2 OF 4	A	

NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLON FOUNDATIONS
 REGULATION 5(2)(o)
 SHEET 3 OF 4

Legend

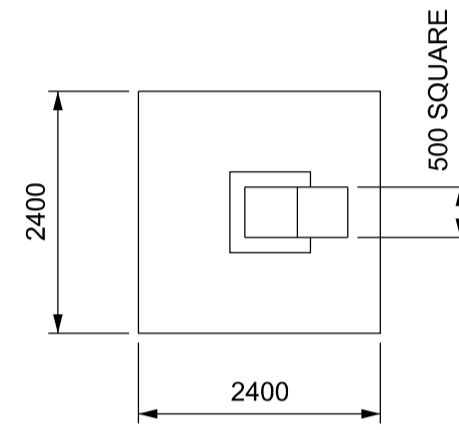


Notes

1. ALL DIMENSIONS ARE INDICATED IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. THIS DRAWING IS SCALED AT PAPER SIZE A1. THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

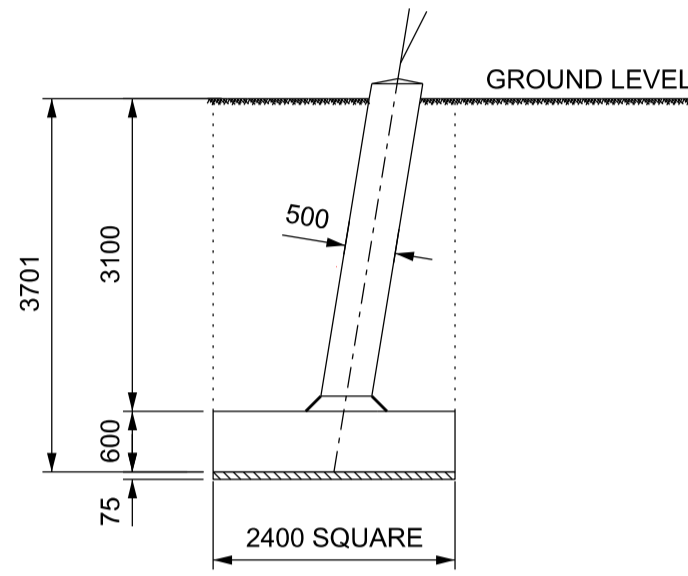
PAD AND COLUMN FOUNDATION

L12 D STD



PLAN VIEW

PAD AND COLUMN FOUNDATION

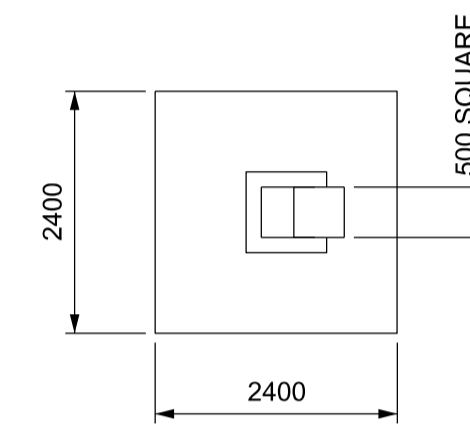


ELEVATION VIEW

PAD AND COLUMN FOUNDATION

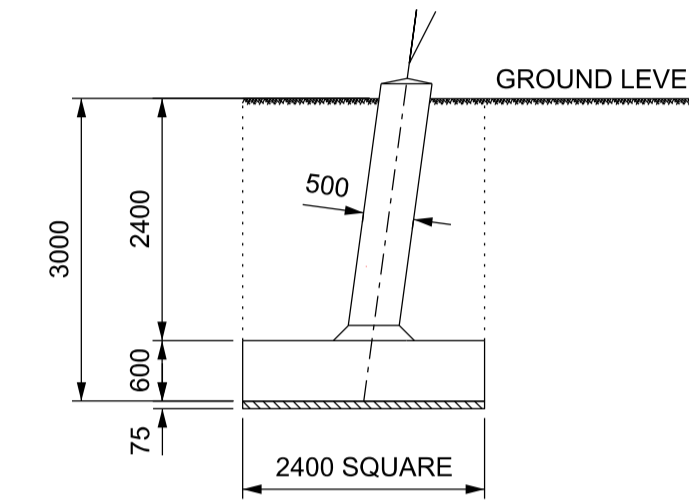
CONCRETE = 4.5m³ per leg
 EXCAVATION = 22m³ per leg

L8(c) D STD



PLAN VIEW

PAD AND COLUMN FOUNDATION

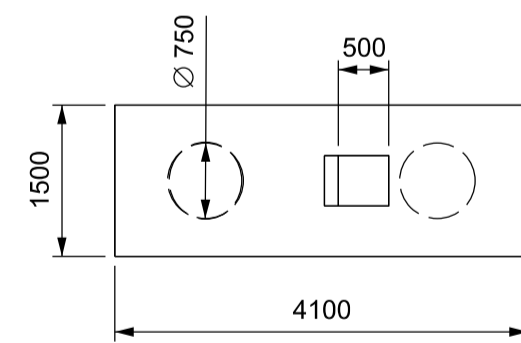


ELEVATION VIEW

PAD AND COLUMN FOUNDATION

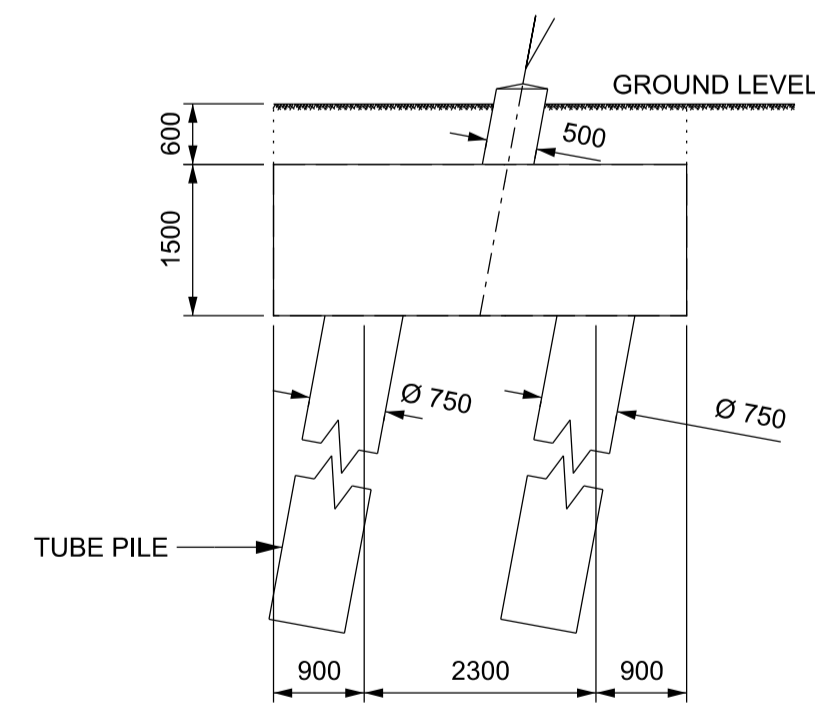
CONCRETE = 4.5m³ per leg
 EXCAVATION = 18m³ per leg

TUBE PILE FOUNDATION



PLAN VIEW

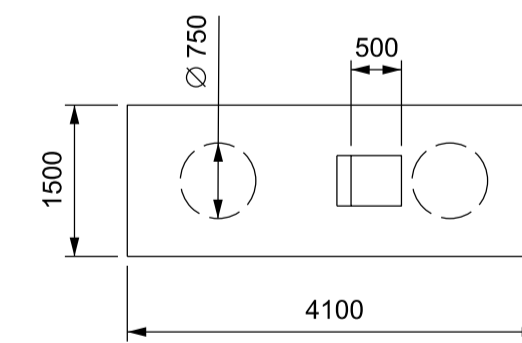
TUBE PILE FOUNDATION



ELEVATION VIEW

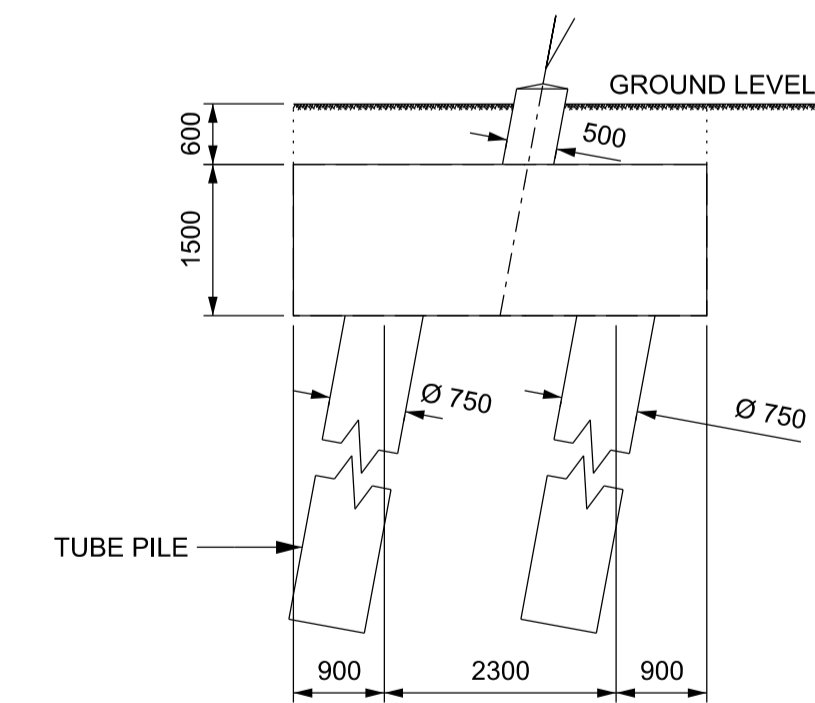
TUBE PILE FOUNDATION

PILE CAP VOLUME = 9.2m³ per leg
 EXCAVATION = 13.5m³ per leg



PLAN VIEW

TUBE PILE FOUNDATION



ELEVATION VIEW

TUBE PILE FOUNDATION

PILE CAP VOLUME = 9.2m³ per leg
 EXCAVATION = 13.5m³ per leg

A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD
Issue	Date	Remarks	Drawn	Checked	Approved

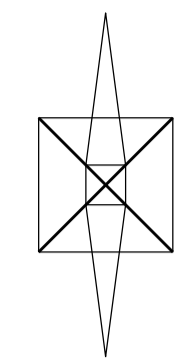
Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE
 PYLON FOUNDATIONS
 REGULATION 5(2)(o)
 SHEET 3 OF 4

nationalgrid

Application Number	EN020024				
National Grid Drawing Reference	DCO_CO/PS/2_03				
Scale	Sheet Size	Sheet	Issue		
N.T.S	A1	SHEET 3 OF 4	A		

NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: INDICATIVE OVERHEAD LINE LIMITS OF DEVIATION
 REGULATION 5(2)(o)
 SHEET 4 OF 4

Legend



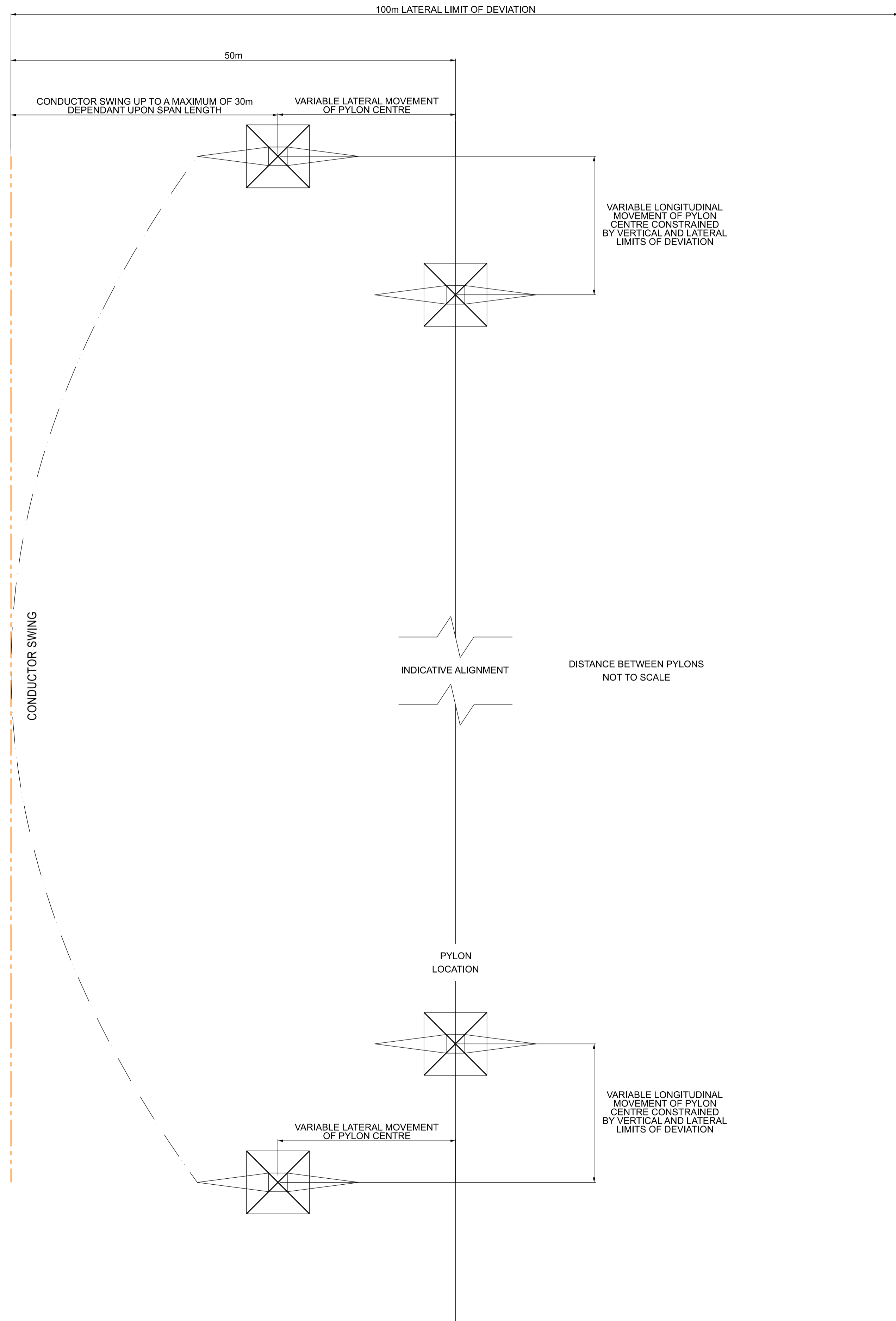
PYLON

--- POSITION OF OUTER OVERHEAD LINE CONDUCTOR IN CONDITIONS OF MAXIMUM SWING

- - - - - LIMITS OF DEVIATION

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. 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.
4. FOR ADDITIONAL DETAIL ON THE PLAN SITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD
Issue	Date	Remarks	Drawn	Checked	Approved

Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: INDICATIVE OVERHEAD
 LINE LIMITS OF DEVIATION
 REGULATION 5(2)(o)
 SHEET 4 OF 4

nationalgrid

Application Number: EN020024

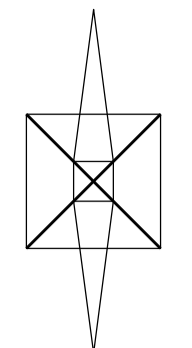
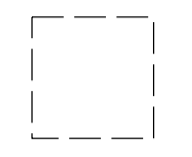
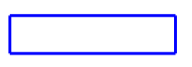
National Grid Drawing Reference: DCO_CO/PS/2_04

Scale: N.T.S.	Sheet Size: A1	Sheet: SHEET 4 OF 4	Issue: A
---------------	----------------	---------------------	----------

Page intentionally blank

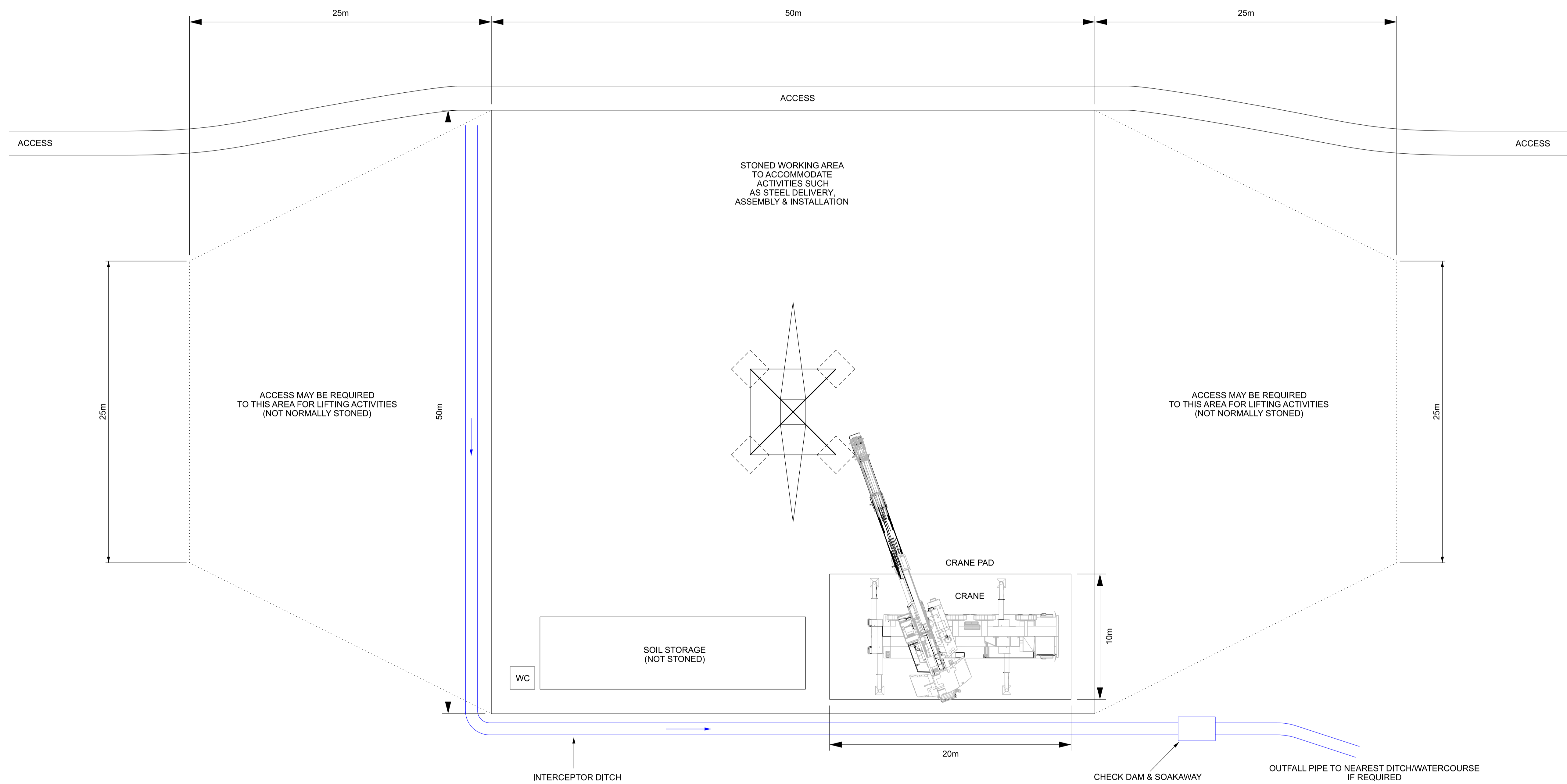
NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: INDICATIVE LATTICE PYLON WORKING AREA
 REGULATION 5(2)(o)
 SHEET 1 OF 2

Legend

-  PYLON
-  FOUNDATION (BELOW GROUND LEVEL)
-  INTERCEPTOR DITCH

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. THIS DRAWING SHOWS AN INDICATIVE WORKING AREA DURING PYLON INSTALLATION.
4. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD

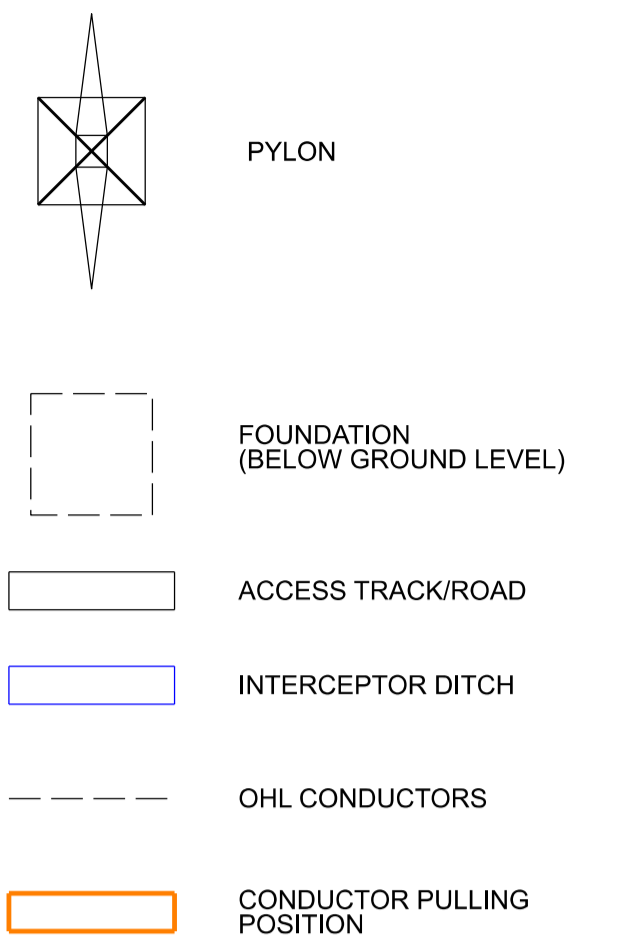
Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: INDICATIVE LATTICE
 PYLON WORKING AREAS
 REGULATION 5(2)(o)
 SHEET 1 OF 2

nationalgrid

Application Number: EN020024
 National Grid Drawing Reference: DCO_CO/PS/3_01
 Scale: N.T.S. Sheet Size: A1 Sheet: SHEET 1 OF 2 Issue: A

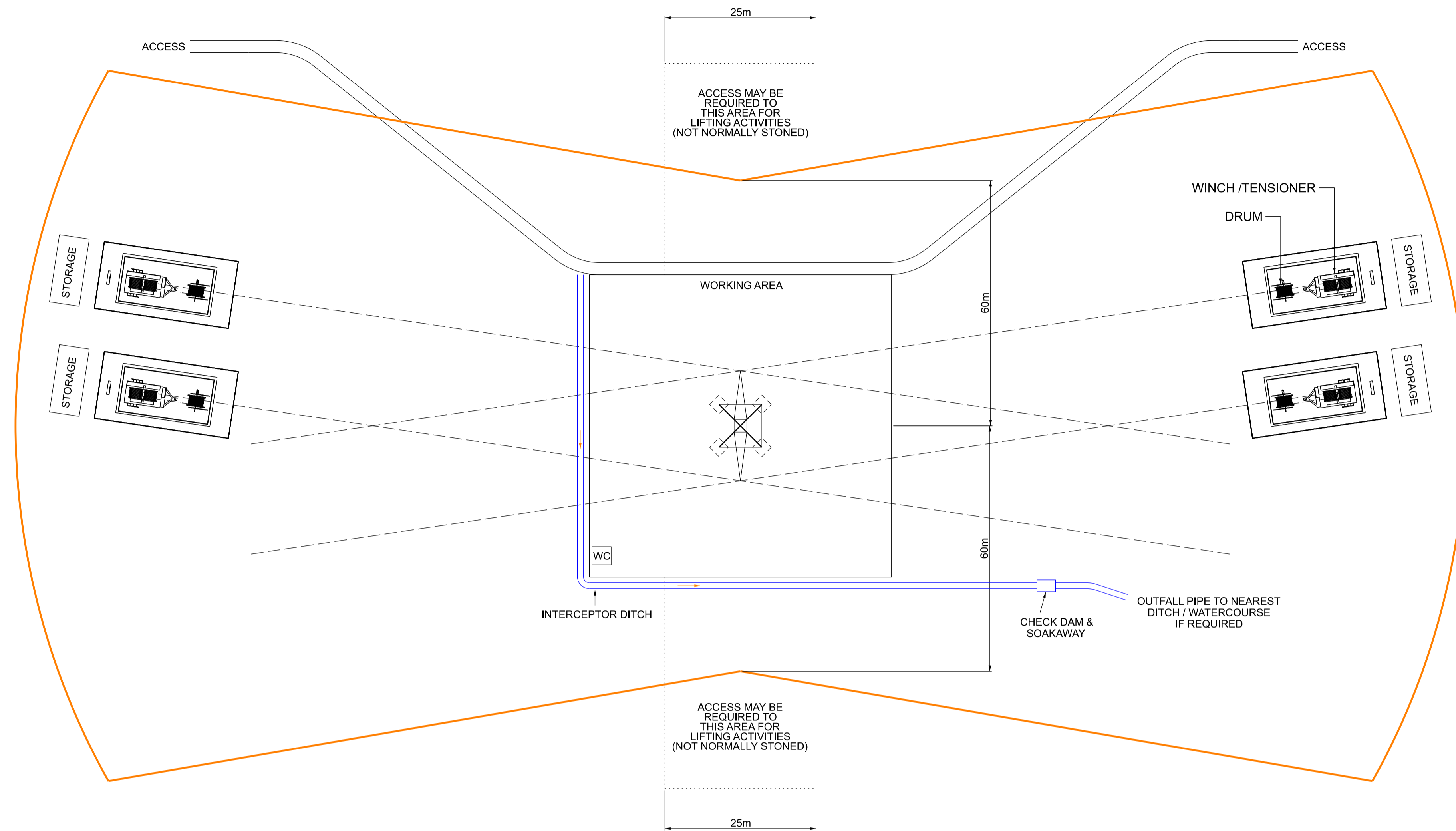
NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLON CONDUCTOR PULLING POSITIONS
 REGULATION 5(2)(o)
 SHEET 2 OF 2

Legend

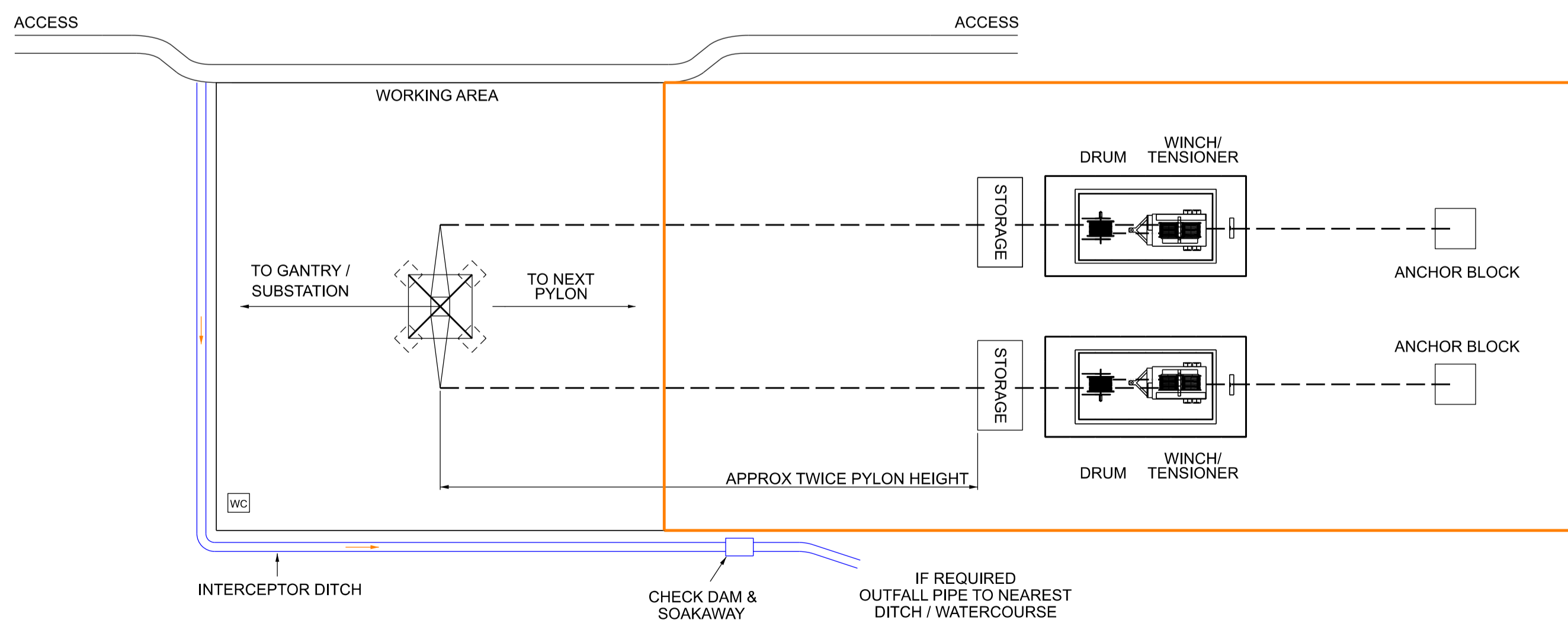


Notes

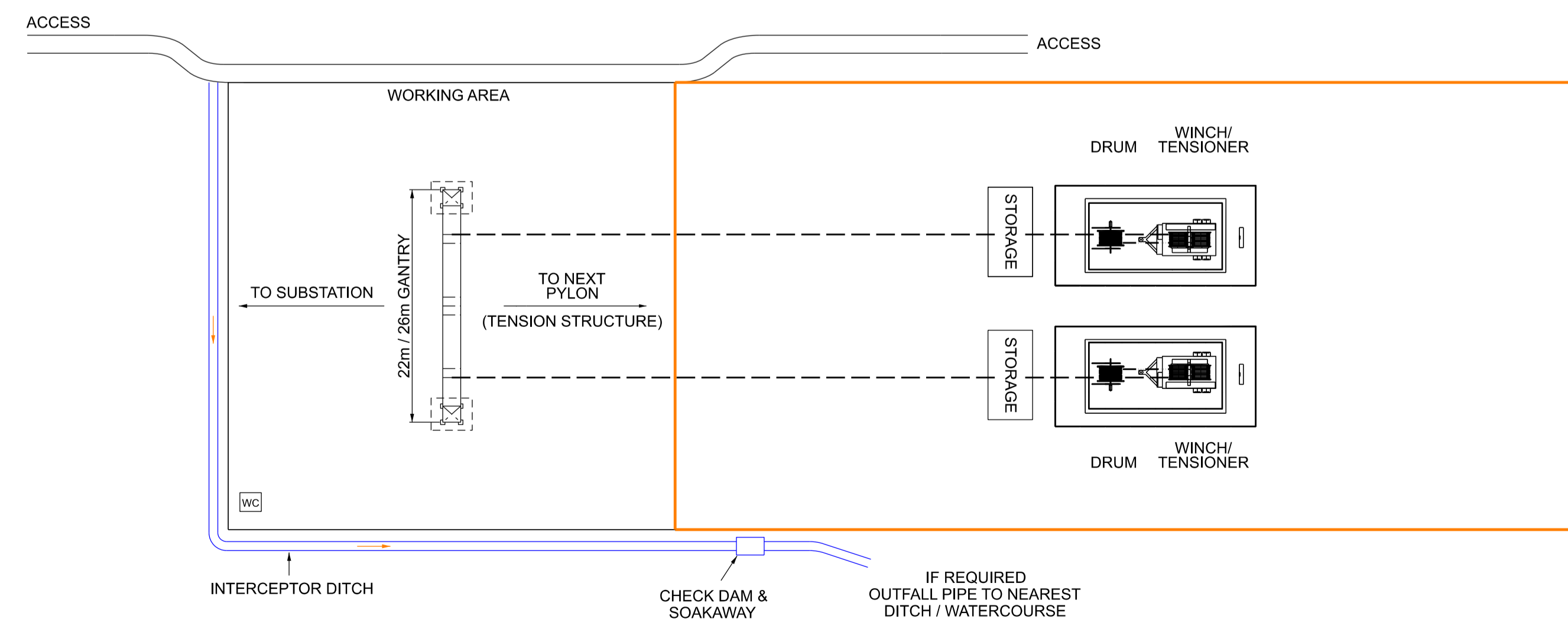
1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE.
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. FOR TERMINAL PYLON, EQUIPMENT FOR PULLING ACTIVITY IS SHOWN ON THE RIGHT-HAND SIDE, HOWEVER THIS CAN BE REVERSED.
4. THIS DRAWING SHOWS A CONDUCTOR PULLING AREA DURING CONDUCTOR INSTALLATION.
5. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



ARRANGEMENT AT ANGLE PYLON



ARRANGEMENT AT TERMINAL PYLON



ARRANGEMENT AT FLT GANTRY

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD

Title
 NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE LATTICE PYLON CONDUCTOR PULLING POSITIONS
 REGULATION 5(2)(o)
 SHEET 2 OF 2

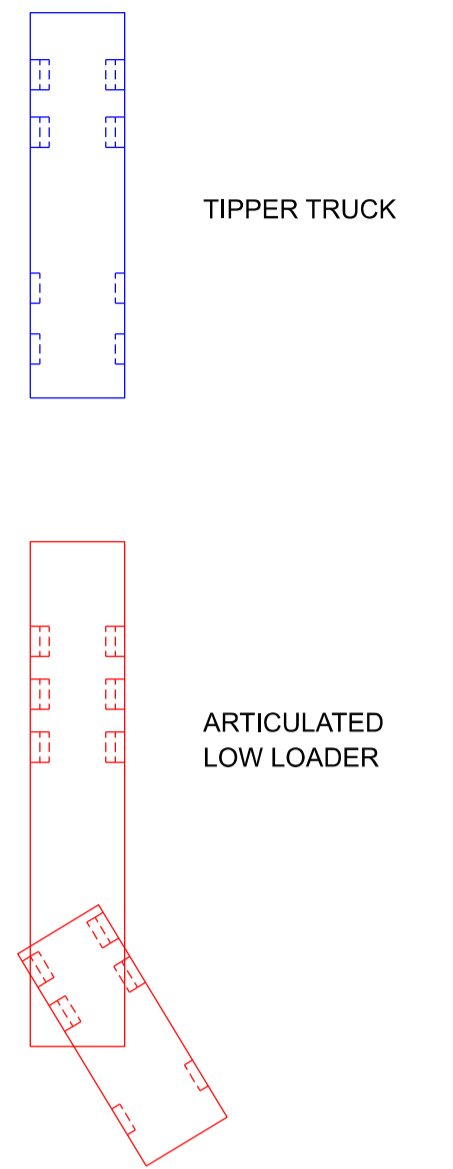
nationalgrid

Application Number: EN020024
 National Grid Drawing Reference: DCO_CO/PS/3_02
 Scale: N.T.S. Sheet Size: A1 Sheet: SHEET 2 OF 2 Issue: A

Page intentionally blank

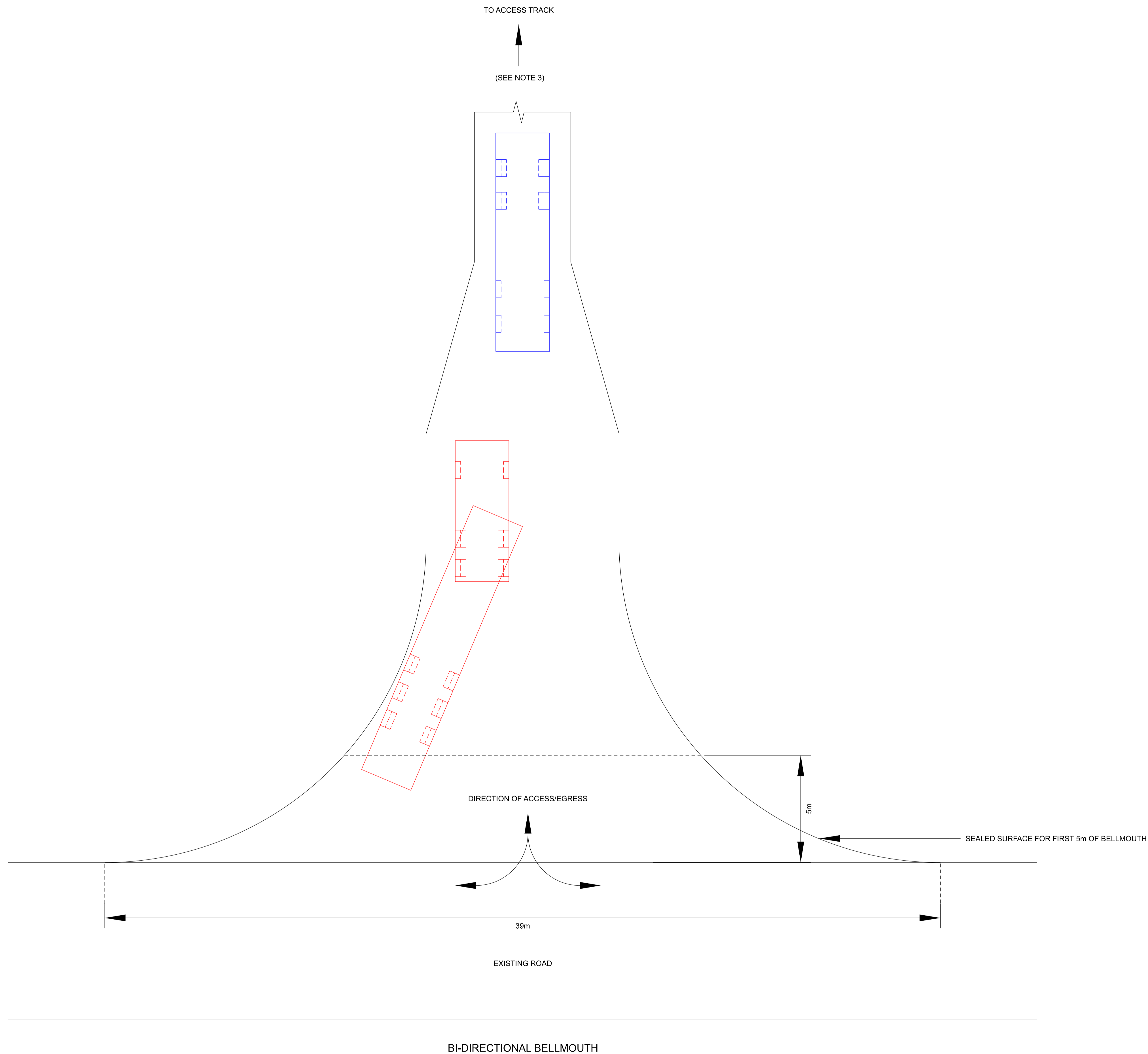
NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE BELLMOUTH LAYOUT
 REGULATION 5(2)(o)
 SHEET 1 OF 6

Legend



Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. BELLMOUTH DESIGN HAS BEEN BASED ON THE DESIGN MANUAL FOR ROADS & BRIDGES (DMRB).
4. BELLMOUTH SIZES HAVE BEEN DESIGNED AS SUCH TO ALLOW CONSTRUCTION VEHICLES TO PARK WITHIN THE BELLMOUTH, MINIMISING THE IMPACT ON PUBLIC TRAFFIC.
5. BELLMOUTH AND ACCESS TRACK ARE TYPICAL. SITE SPECIFIC DESIGNS WILL BE REQUIRED.
6. THIS DRAWING SHOWS TYPICAL BELLMOUTH CONSTRUCTION, WHICH WILL BE LOCATED AT THE INTERSECTION OF AN ACCESS TRACK AND PUBLIC HIGHWAY.
7. AREA FOR FENCING AND DRAINAGE DETAILS TO BE ADDED SUBJECT TO SITE SPECIFIC DESIGN TO PREVENT WATER DRAINING ON TO PUBLIC HIGHWAY.
8. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



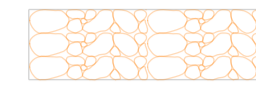
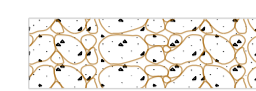

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD

Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE
 BELLMOUTH LAYOUT
 REGULATION 5(2)(o)
 SHEET 1 OF 6

nationalgrid				
Application Number		EN020024		
National Grid Drawing Reference				
DCO_CO/PS/4_01				
Scale	Sheet Size	Sheet	Issue	
N.T.S	A1	SHEET 1 OF 6	A	

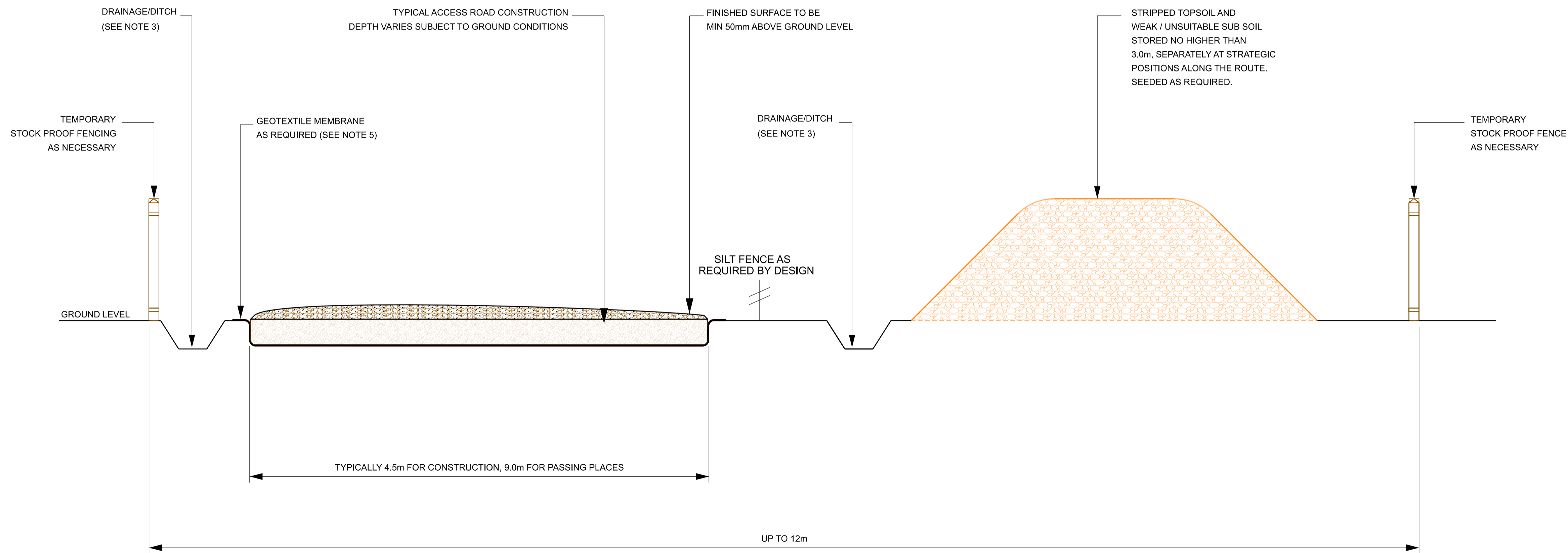
NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE STONE ACCESS ROAD
 REGULATION 5(2)(o)
 SHEET 2 OF 6

Legend

-  SOIL
-  FINISHING SURFACE
-  SUB BASE CAPPING

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST
3. CROSS DRAINS MAY BE REQUIRED WHERE ROADS BLOCK EXISTING SURFACE RUN OFF
4. THIS DRAWING SHOWS THE TYPICAL STONE ROAD CONSTRUCTION, WHICH WILL BE USED TO REACH CONSTRUCTION AREAS SUCH AS PYLON WORKING AREAS
5. GEOTEXTILE IS A VERY THIN WOVEN PERMEABLE SYNTHETIC SHEET WHICH STOPS AGGREGATES MIGRATING INTO THE EXISTING GROUND.
6. DAMS CONSTRUCTED FROM GRAVEL, STRAW BALES AND / OR SILT NETTING MAY BE PROVIDED IN THE DITCHES TO SLOW AND TREAT FLOWS.
7. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



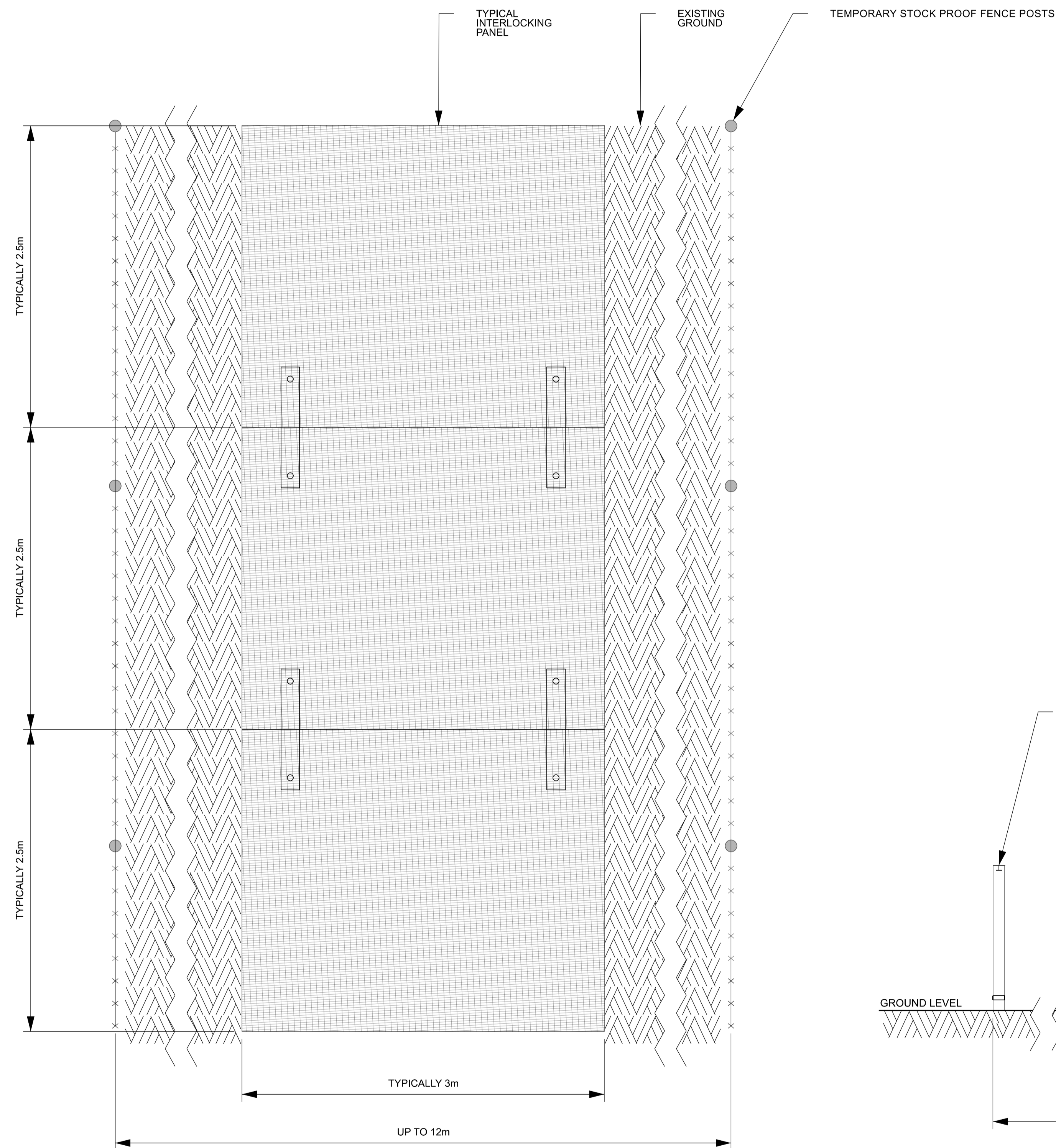
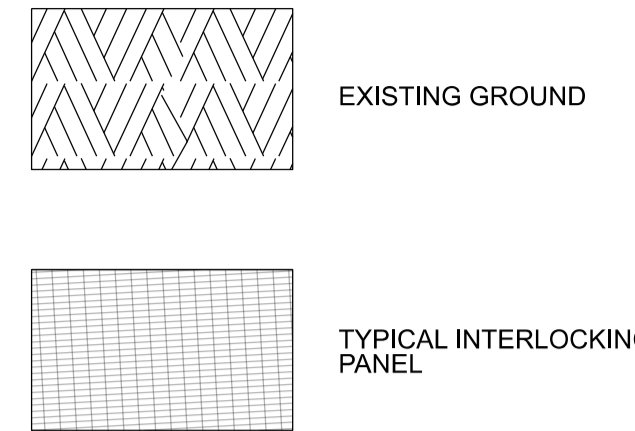
Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD

Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE STONE
 ACCESS ROAD
 REGULATION 5(2)(o)
 SHEET 2 OF 6

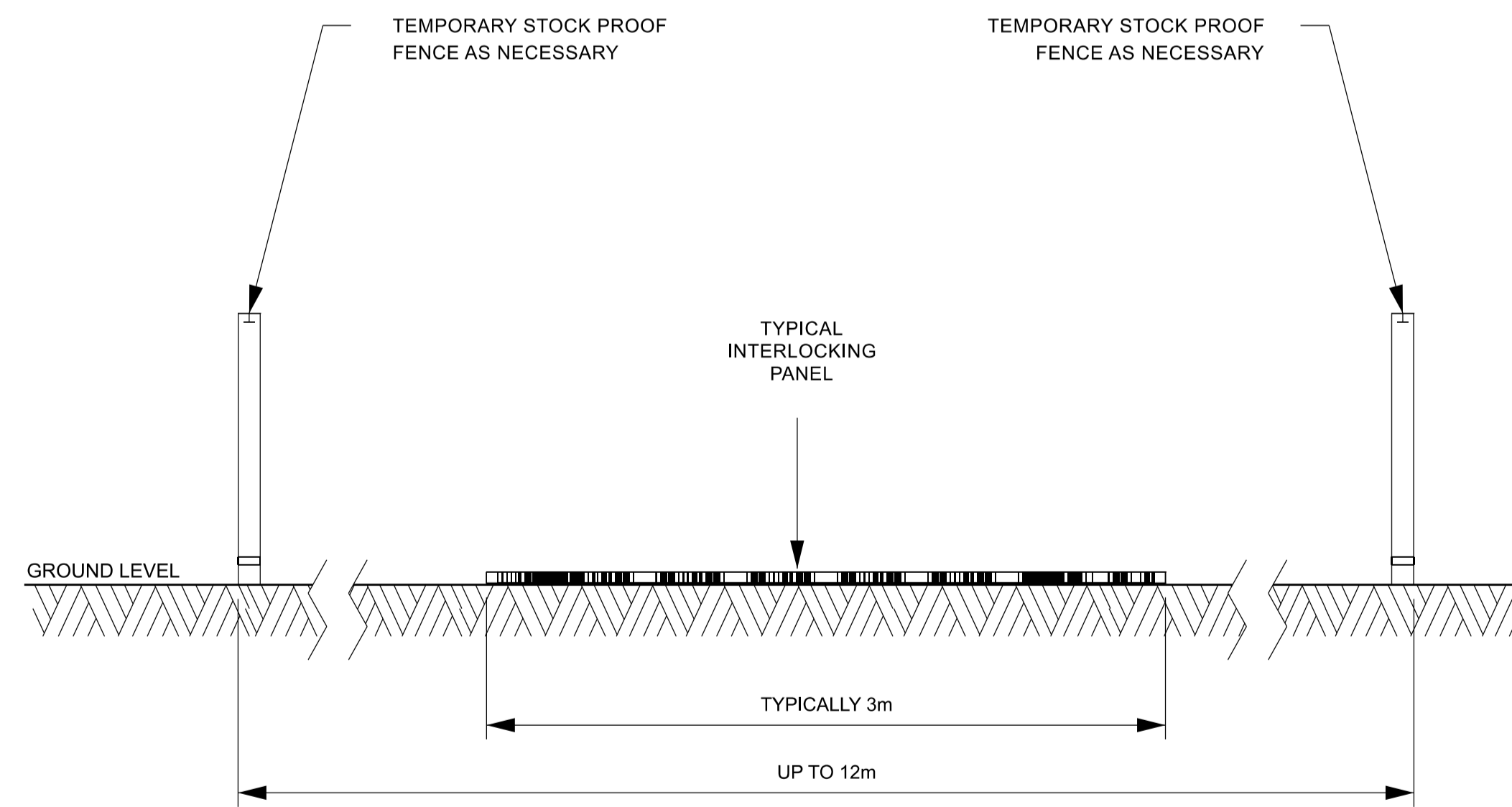
nationalgrid				
Application Number		EN020024		
National Grid Drawing Reference				
DCO_CO/PS/4_02				
Scale	Sheet Size	Sheet	Issue	
N.T.S.	A1	SHEET 2 OF 6	A	

NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE INTERLOCKING PANEL
 ACCESS FOR OVERHEAD LINE CONSTRUCTION
 REGULATION 5(2)(o)
 SHEET 3 OF 6

Legend



PLAN VIEW



ELEVATION VIEW

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST
3. WHEN SOFT GROUND IS ENCOUNTERED, ADDITIONAL PANELS TO BE USED IN ACCORDANCE WITH MANUFACTURERS GUIDELINES.
4. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD





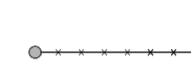
Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE
 INTERLOCKING PANEL ACCESS FOR
 OVERHEAD LINE CONSTRUCTION
 REGULATION 5(2)(o)
 SHEET 3 OF 6



Application Number	EN020024			
National Grid Drawing Reference	DCO_CO/PS/4_03			
Scale	Sheet Size	Sheet	Issue	
N.T.S	A1	SHEET 3 OF 6	A	

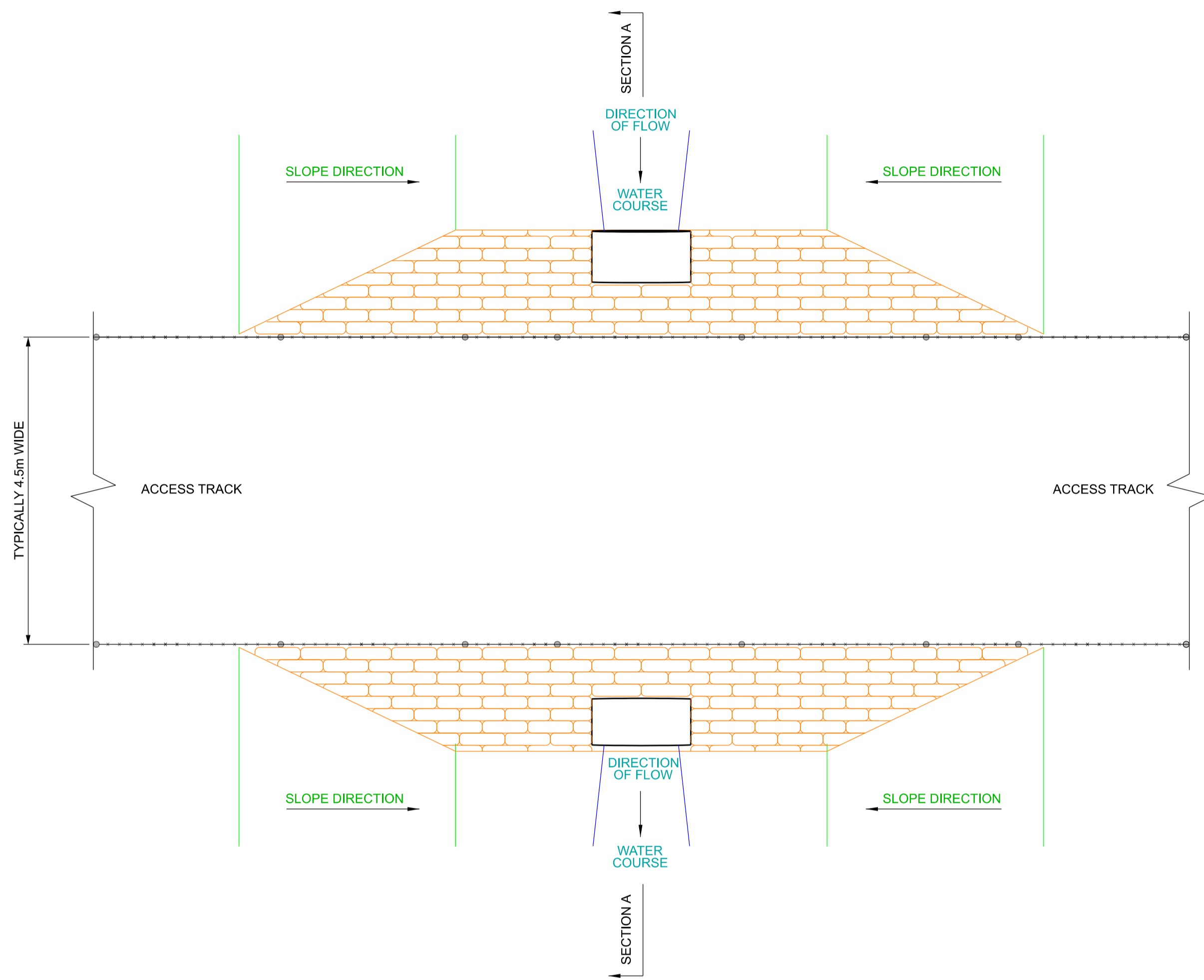
NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE CULVERT
 CONSTRUCTION DETAILS
 REGULATION 5(2)(o)
 SHEET 4 OF 6

Legend

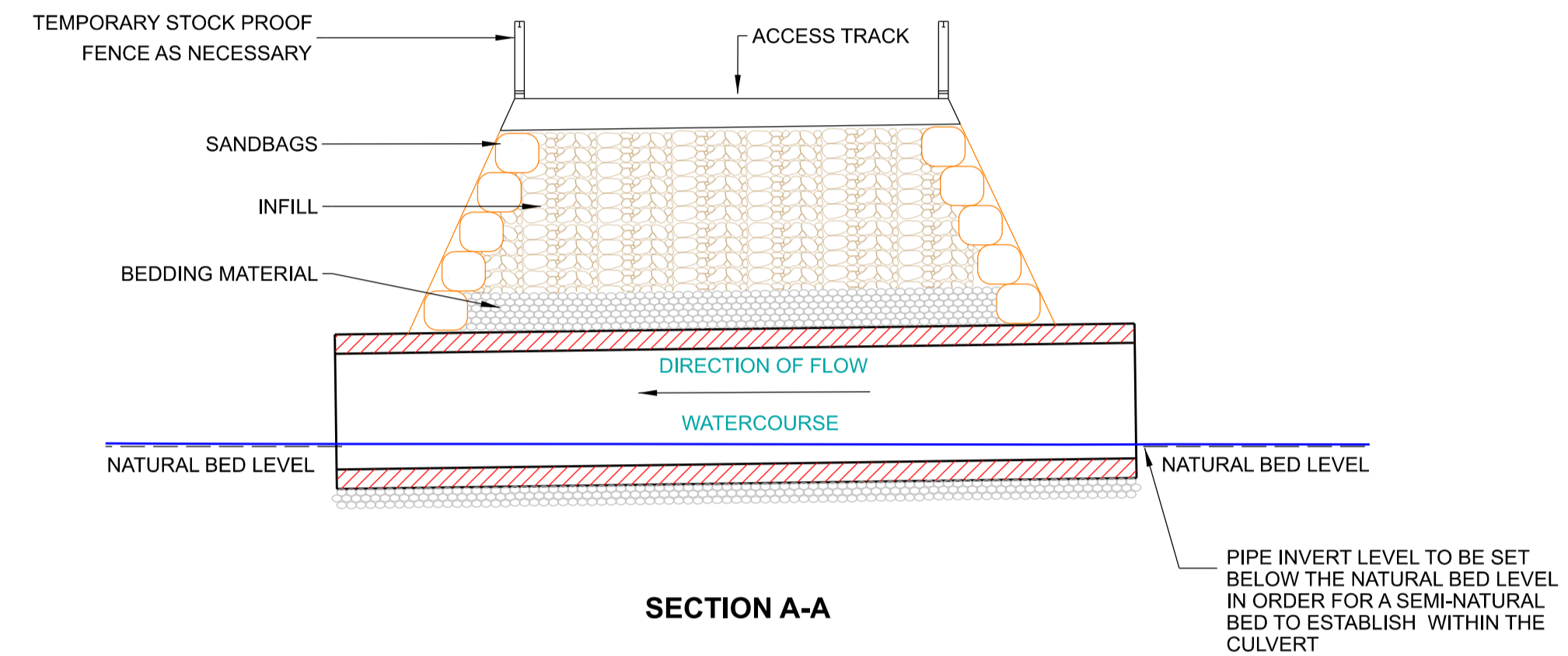
-  SANDBAG
-  INFILL
-  BEDDING MATERIAL
-  WATER
-  FENCELINE

Notes

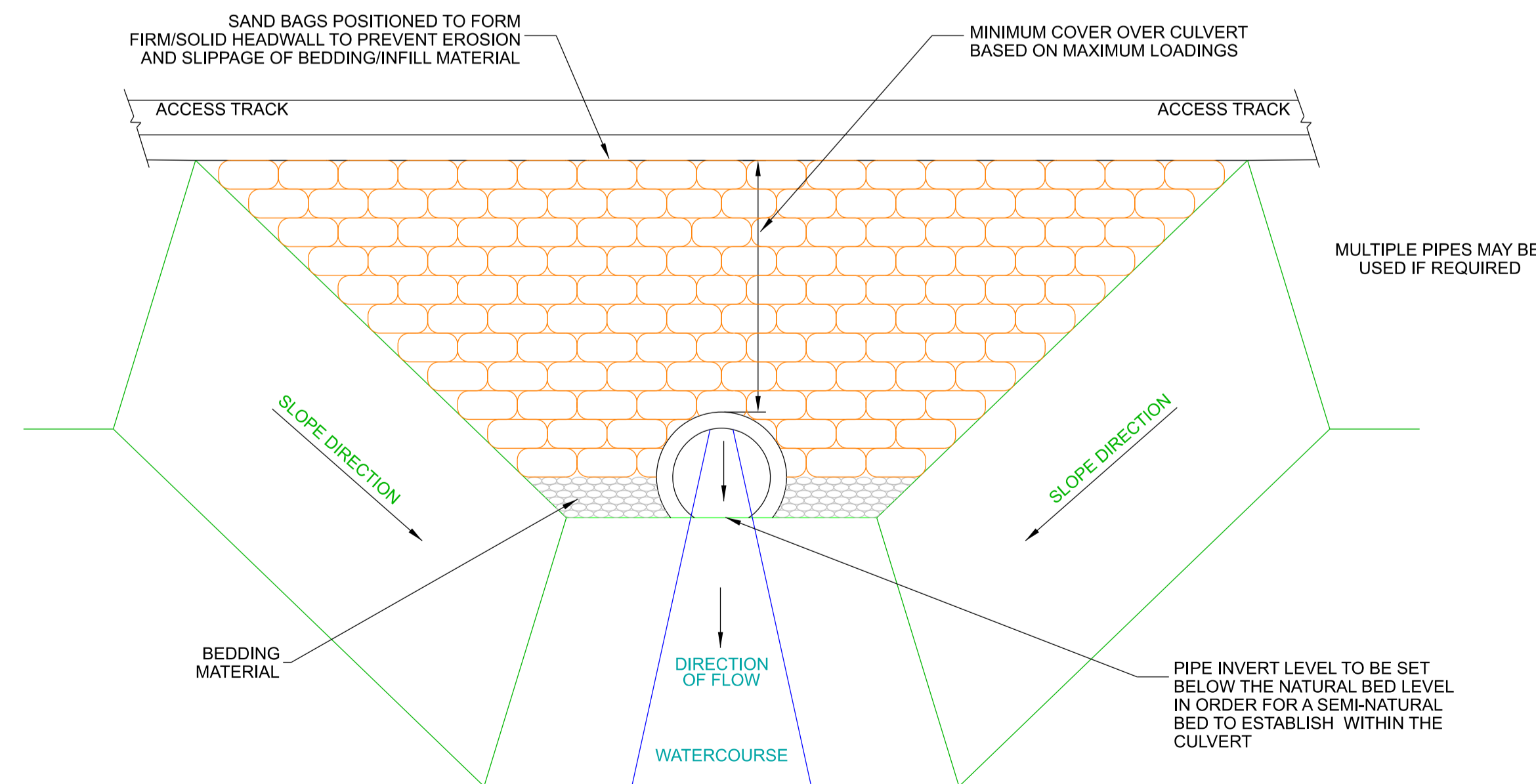
1. ALL DIMENSIONS ARE INDICATED IN METRES(m) UNLESS NOTED OTHERWISE.
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. FENCE OMITTED FOR CLARITY IN PLAN VIEW AND PERSPECTIVE VIEW.
4. SIZING OF CULVERT TO BE SITE SPECIFIC. IF CULVERT IS TEMPORARY, 1 IN 100 FLOOD EVENT WILL BE CONSIDERED.
5. BURYING THE CULVERT INVERT TO ALLOW A NATURAL BED TO FORM, WOULD NECESSITATE OVER-SIZING THE CULVERT.
6. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



PLAN VIEW



SECTION A-A



PERSPECTIVE VIEW

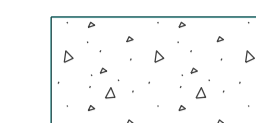
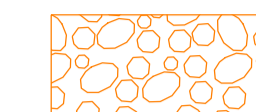

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD

Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE
 CULVERT CONSTRUCTION DETAILS
 REGULATION 5(2)(o)
 SHEET 4 OF 6

nationalgrid				
Application Number		EN020024		
National Grid Drawing Reference				
DCO_CO/PS/4_04				
Scale	Sheet Size	Sheet	Issue	
N.T.S	A1	SHEET 4 OF 6	A	

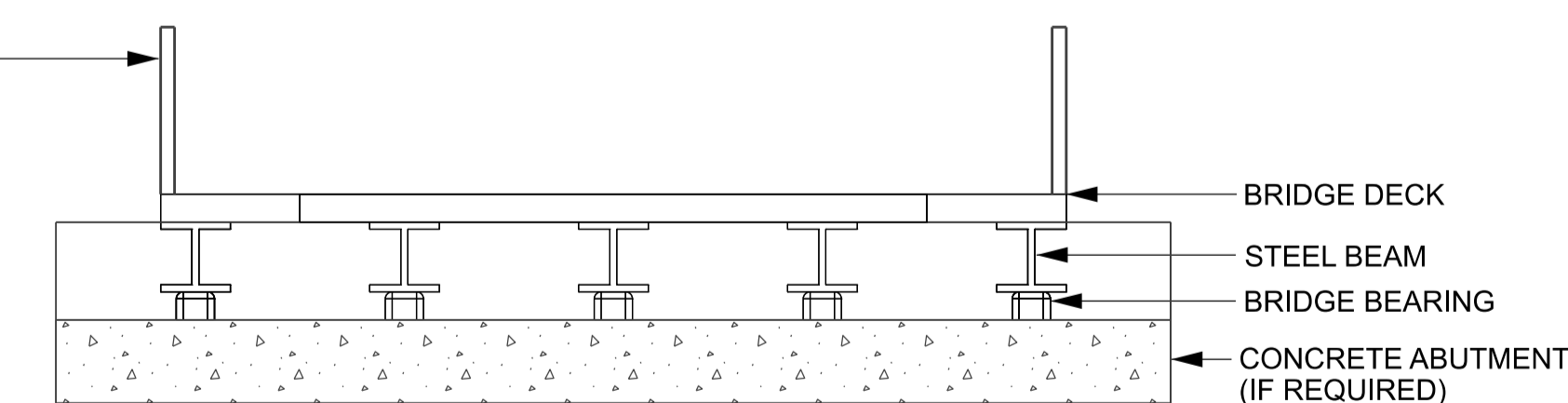
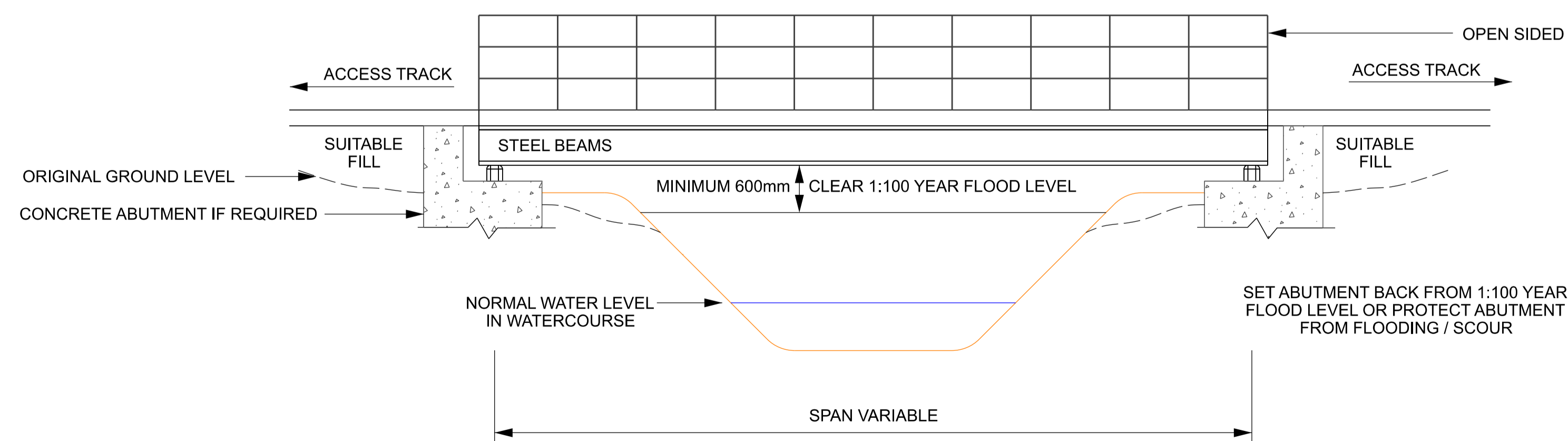
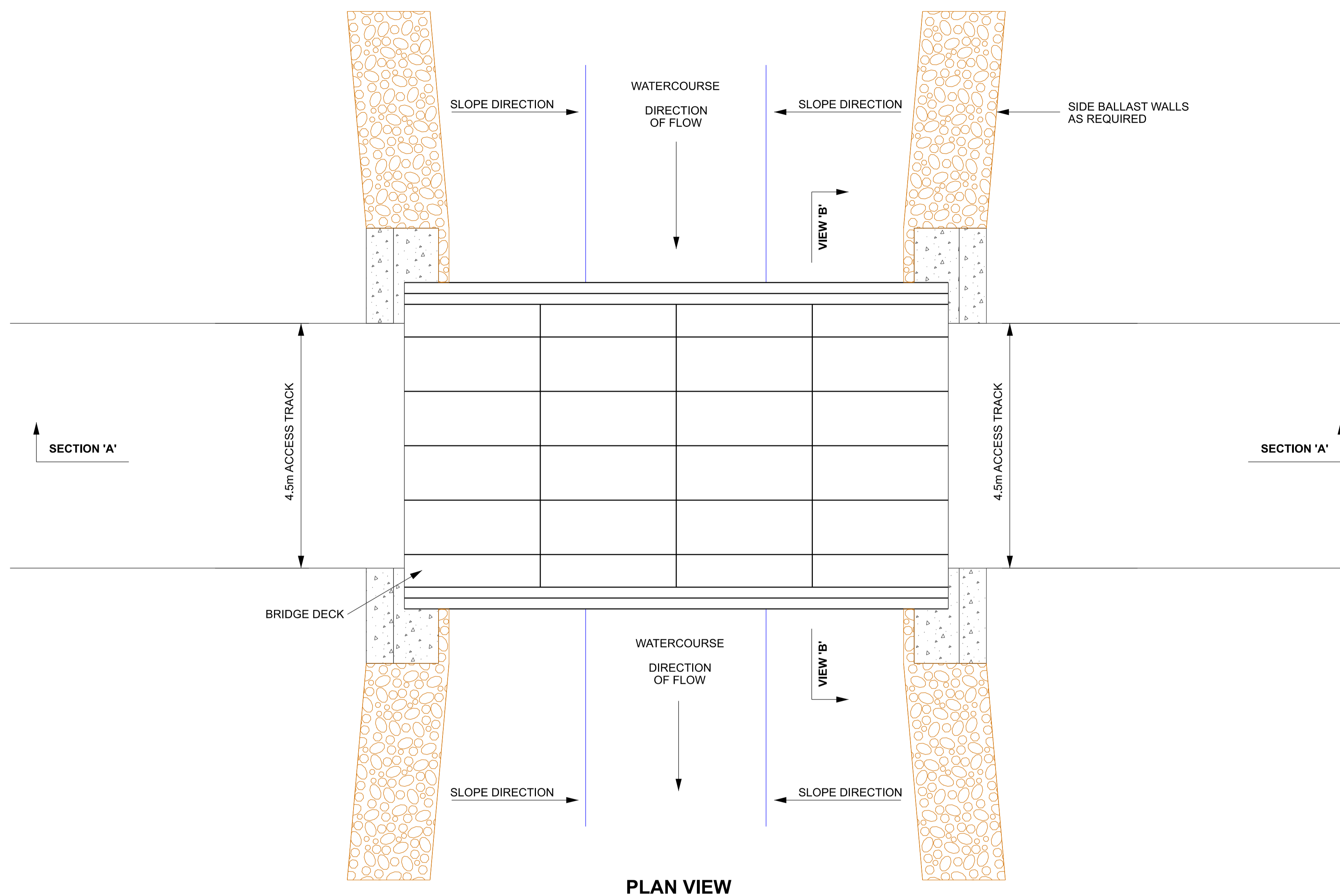
NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE BRIDGE DETAILS FOR OHL CONSTRUCTION
 REGULATION 5(2)(o)
 SHEET 5 OF 6

Legend

-  CONCRETE
-  BALLAST WALLS
-  WATER

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. ALTERNATIVE MATERIALS CAN BE USED TO CONCRETE ABUTMENTS, IF REQUIRED.
4. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



VIEW B-B

SECTION A-A

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD


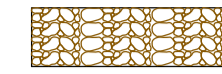
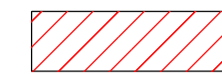

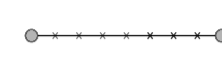

Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE BRIDGE
 DETAILS FOR OHL CONSTRUCTION
 REGULATION 5(2)(o)
 SHEET 5 OF 6

nationalgrid

Application Number		EN020024	
National Grid Drawing Reference		DCO_CO/PS/4_05	
Scale	Sheet Size	Sheet	Issue
N.T.S	A1	SHEET 5 OF 6	A

NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE CONSTRUCTION COMPOUND
 REGULATION 5(2)(o)
 SHEET 6 OF 6

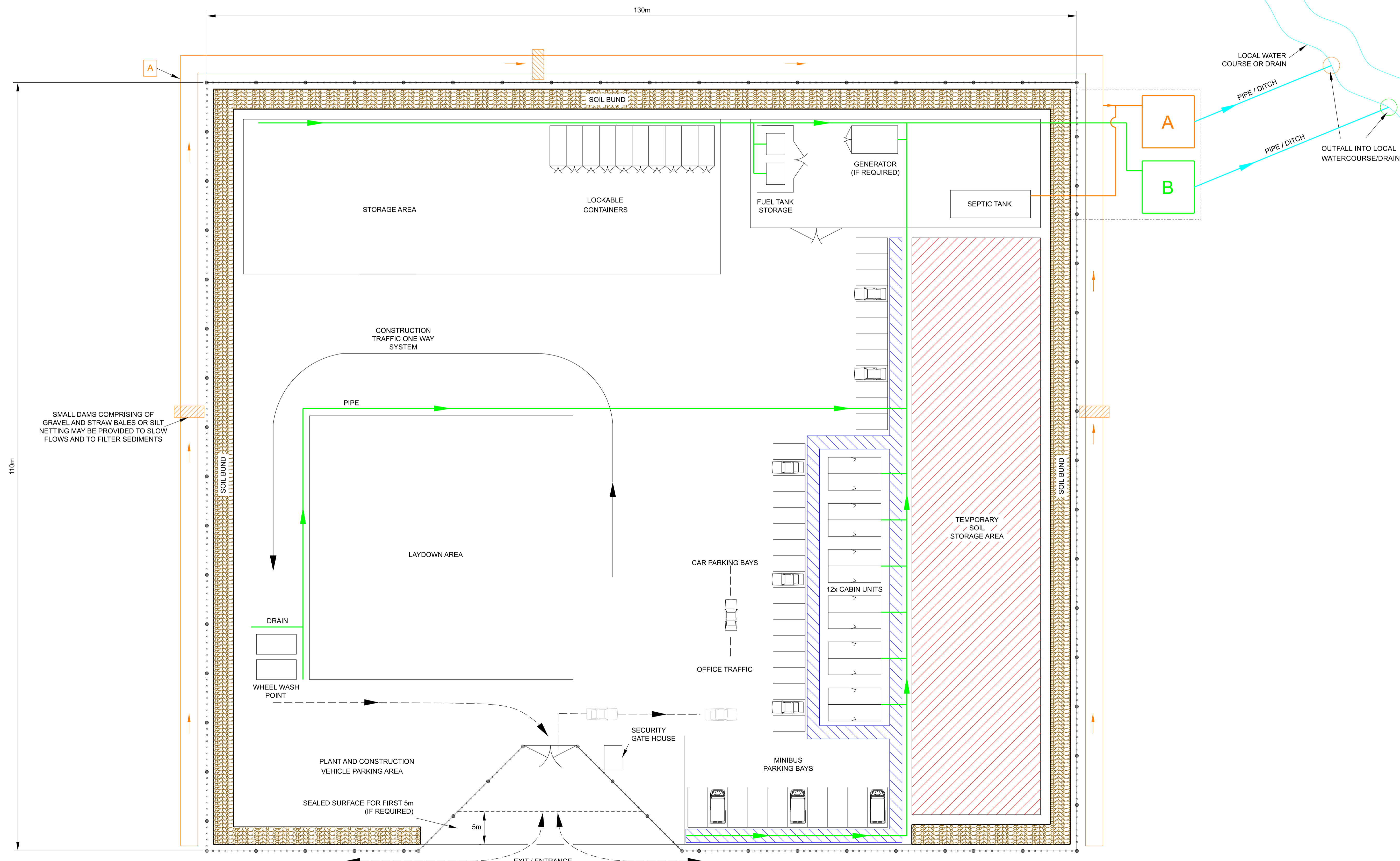
Legend

-  PEDESTRIAN ACCESS
-  SOIL BUND
-  TEMPORARY SOIL STORAGE
-  INTERCEPTOR DITCH
-  FENCELINE
-  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

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1. THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. DIMENSIONS AND LAYOUT ARRANGEMENT SHOWN ARE INDICATIVE ONLY. DESIGN WILL VARY ACCORDING TO THE AVAILABLE AREA, THE SPECIFIC SITE CONSTRAINTS AND THE CONSTRUCTION CONTRACTORS REQUIREMENTS.
4. THIS DRAWING SHOWS A TYPICAL CONSTRUCTION COMPOUND, WHICH WILL BE IN PLACE DURING CONSTRUCTION OF THE RELEVANT ASPECTS OF THE CONSTRUCTION PROGRAMME.
5. SOIL BUND WILL BE DESIGNED WITH SUITABLE GAPS / DRAINAGE PIPES TO ALLOW WATER FLOW IN FLOOD CONDITIONS.
6. SOIL WITHIN COMPOUND TO BE STRIPPED AND COMPOUNDS TEMPORARILY SURFACED.
7. SITE CABINS MAY BE DOUBLE STOREY AND MAY BE RAISED TO TAKE ACCOUNT OF POTENTIAL FLOOD RISK.
8. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD





Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE
 CONSTRUCTION COMPOUND
 REGULATION 5(2)(o)
 SHEET 6 OF 6

nationalgrid			
Application Number	EN020024		
National Grid Drawing Reference	DCO_CO/PS/4_06		
Scale	Sheet Size	Sheet	Issue
N.T.S	A1	SHEET 6 OF 6	A

Page intentionally blank

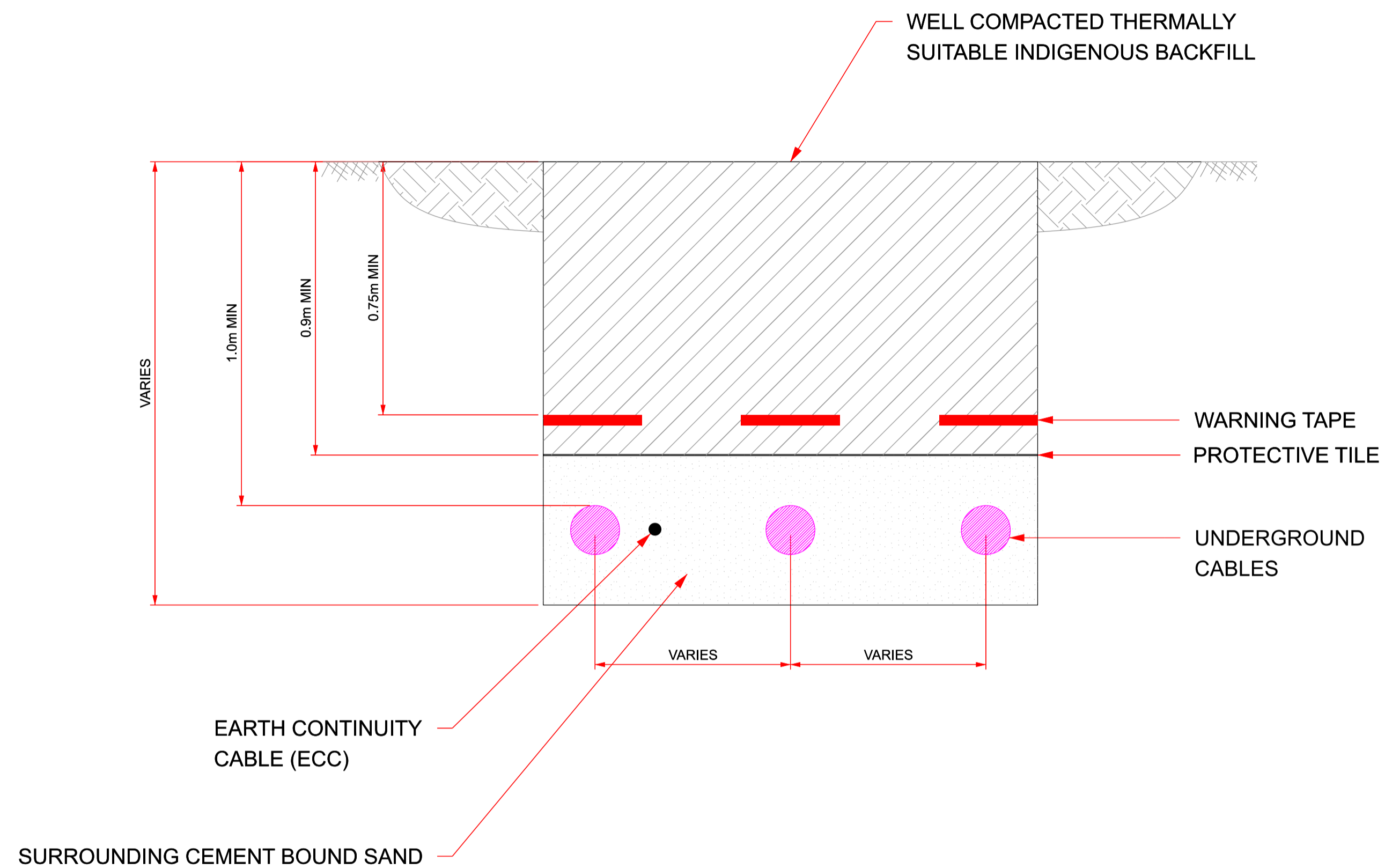
NATIONAL GRID (YORKSHIRE GREEN ENERGY ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE UNDERGROUND CABLE CROSS SECTION
 REGULATION 5(2)(o)
 SHEET 1 OF 2

Legend

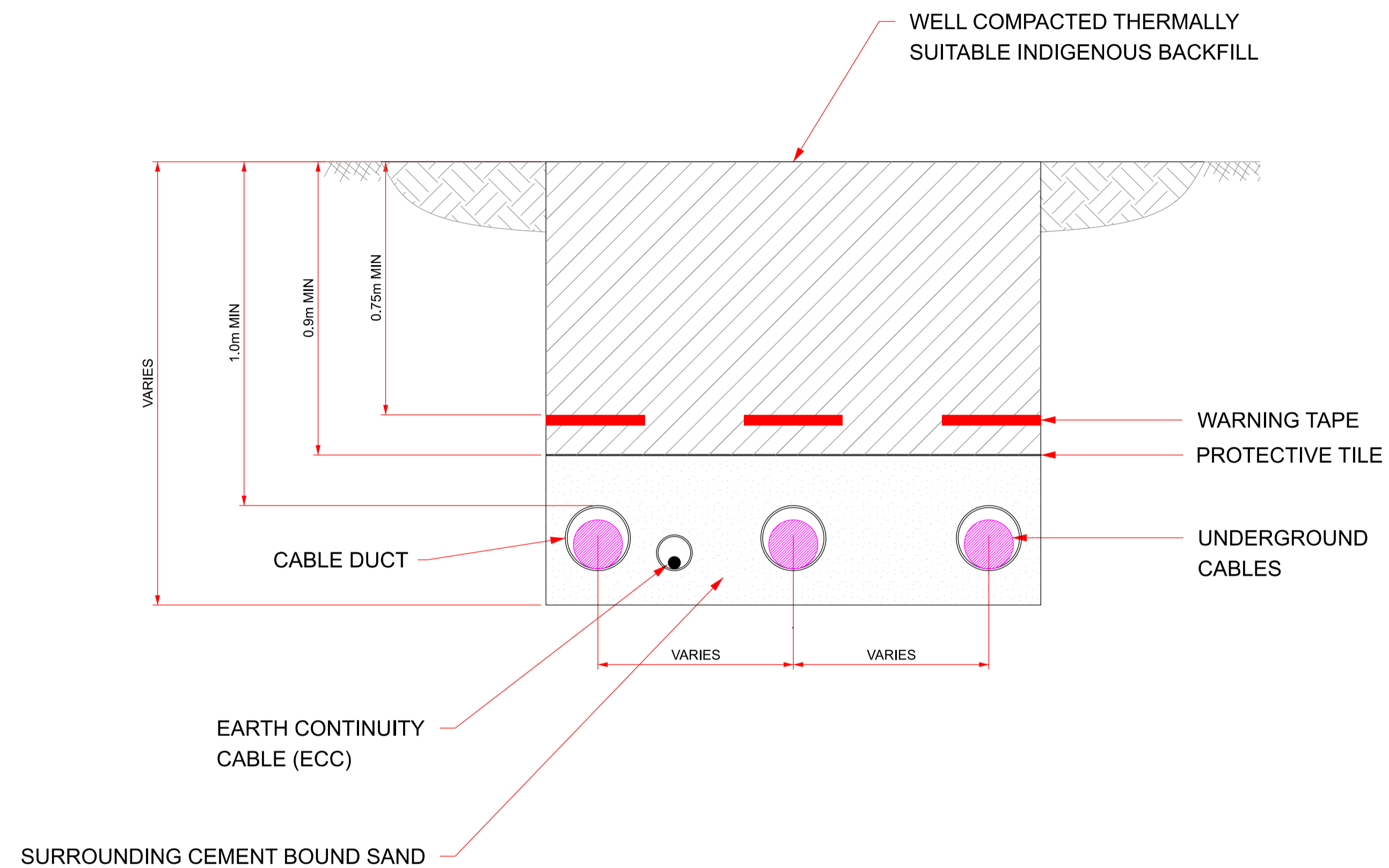
-  CBS (CEMENT BOUND SAND)
-  WELL COMPACTED THERMALLY SUITABLE INDIGENOUS BACKFILL
-  NATIVE SOIL
-  UNDERGROUND CABLE

Notes

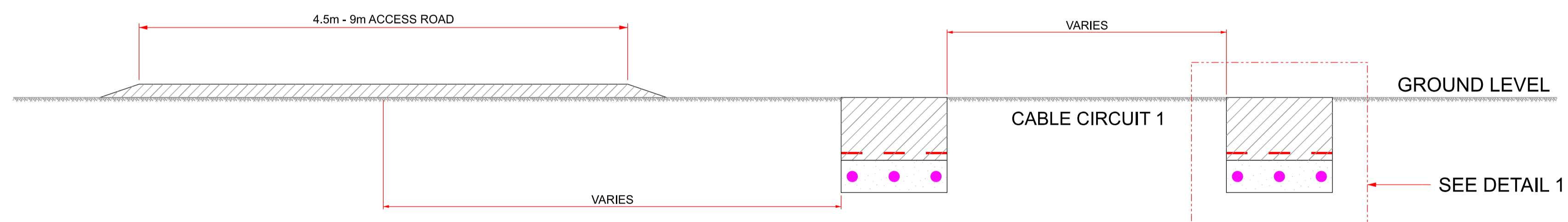
1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE.
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. PROPOSED ARRANGEMENT SHOWN FOR INDICATIVE PURPOSE ONLY. DIMENSIONS AND DESIGN MAY VARY DEPENDING ON SITE AND INSTALLATION CONDITIONS.
4. CIRCUIT SEPARATION REQUIRED TO MEET RATINGS AT OBSTRUCTIONS WITH REGULAR OCCURRENCE.
5. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



**DETAIL 1 - OPTION 1
 TYPICAL DIRECT BURIED CABLE TRENCH**



**DETAIL 1 - OPTION 2
 TYPICAL DUCTED CABLE TRENCH**



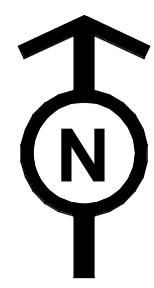
**CROSS SECTION A-A
 TYPICAL DIRECT BURIED CABLE CROSS SECTION POST CONSTRUCTION
 ECC OMITTED FOR CLARITY**

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/2022	FOR DCO SUBMISSION	AD	SF	EMD

Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE
 UNDERGROUND CABLE CROSS SECTION
 REGULATION 5(2)(o)
 SHEET 1 OF 2

nationalgrid				
Application Number		EN020024		
National Grid Drawing Reference				
DCO_CO/PS/5_01				
Scale	Sheet Size	Sheet	Issue	
N.T.S	A1	SHEET 1 OF 2	A	

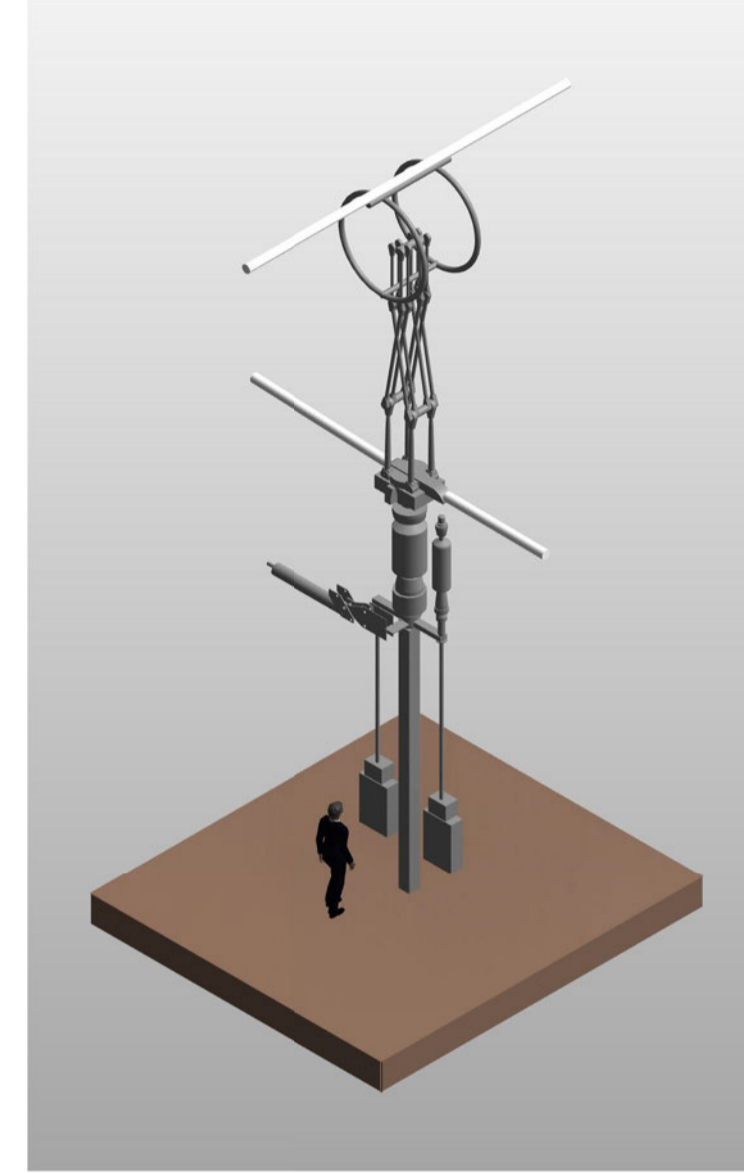
Page intentionally blank



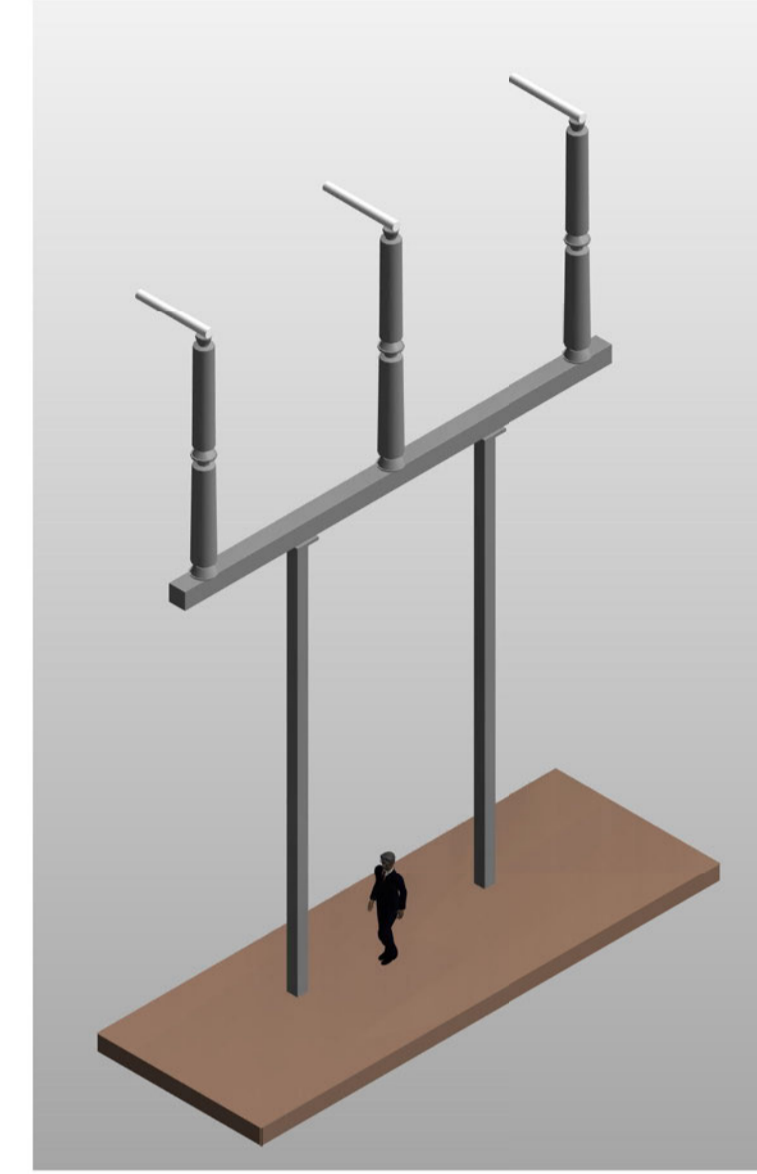
EARTH SWITCH



CAPACITIVE VOLTAGE TRANSFORMER (CVT)



SINGLE PANTOGRAPH DISCONNECTOR



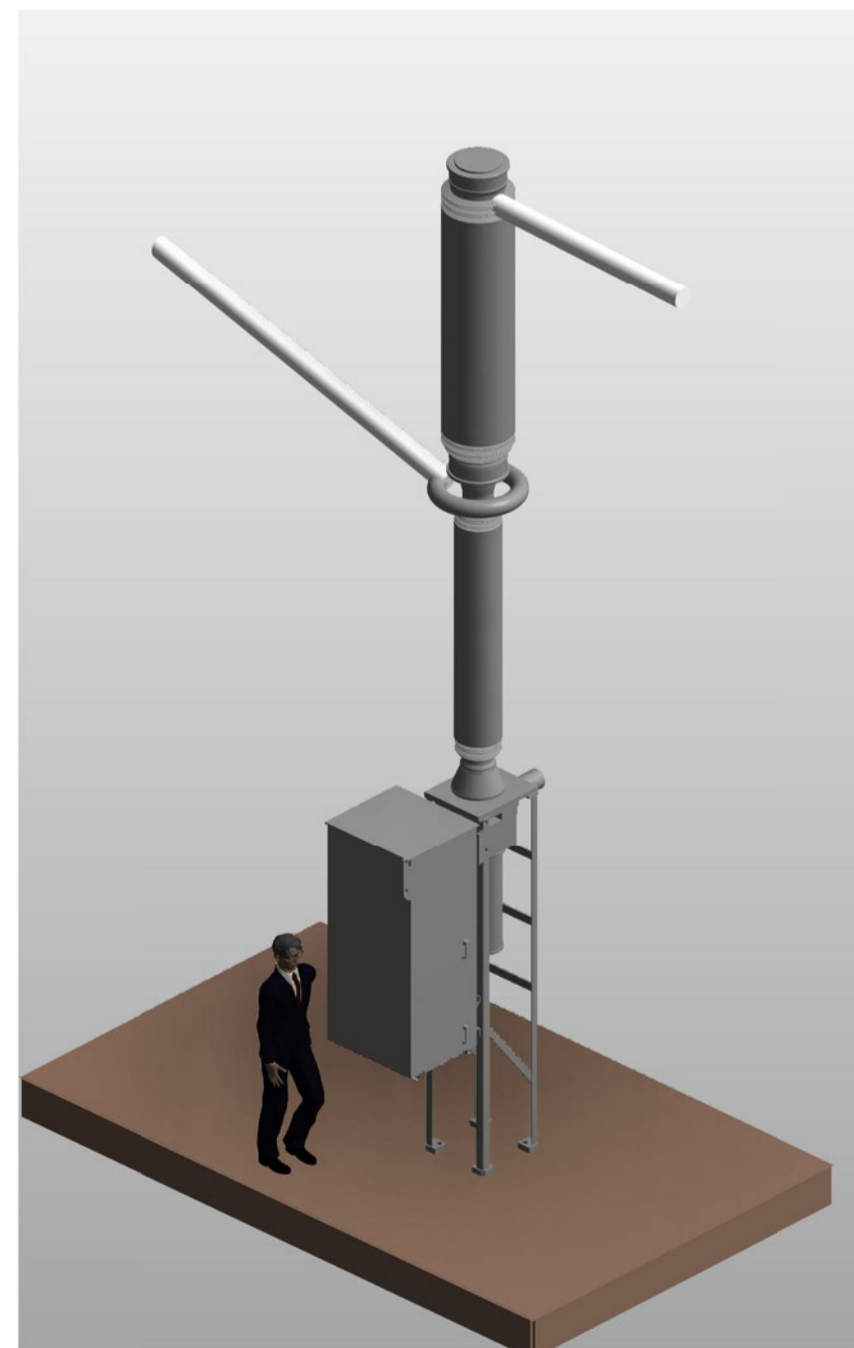
THREE PHASE POST INSULATOR



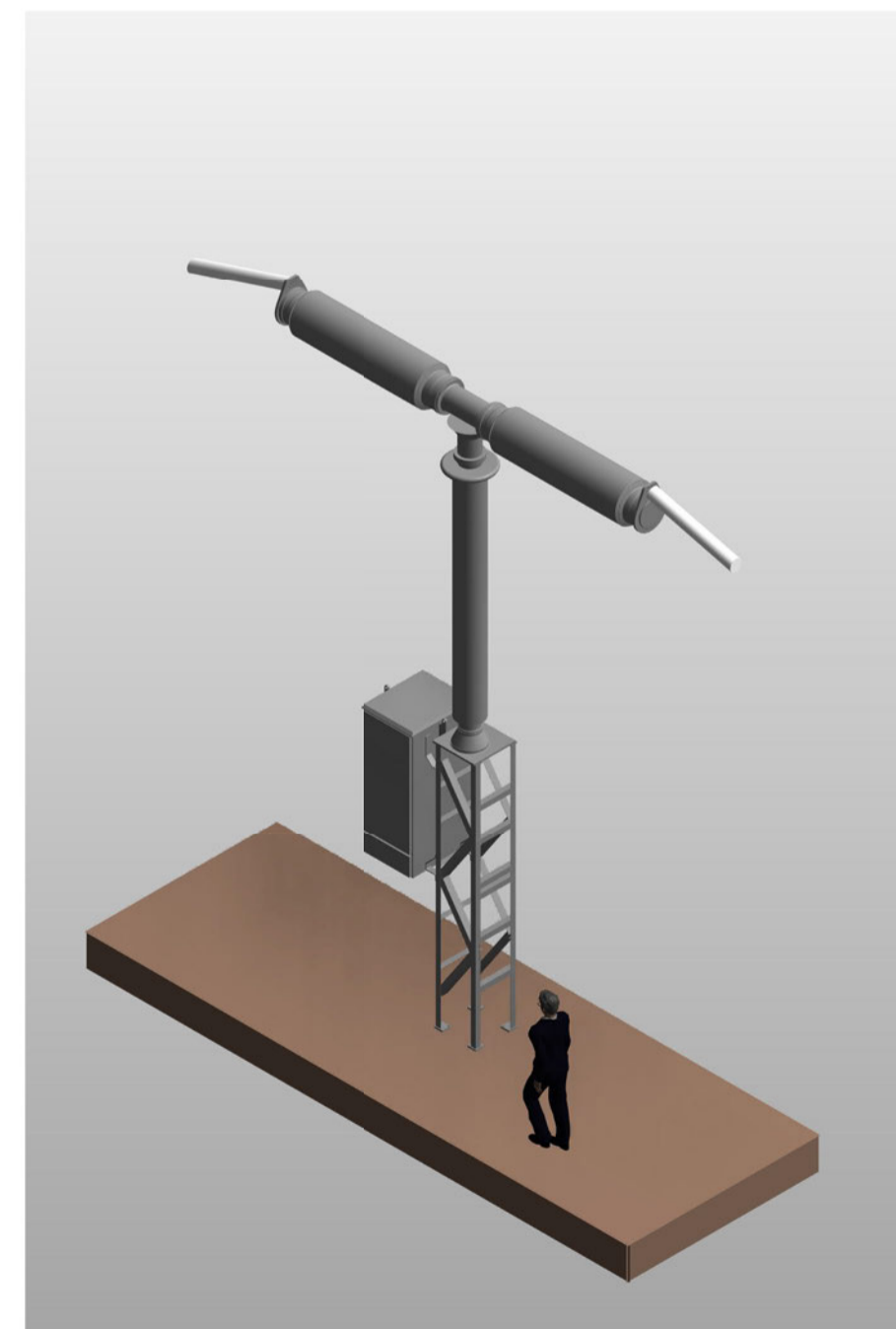
SINGLE CURRENT TRANSFORMER

Notes

1. THIS DRAWING IS SCALED AT PAPER SIZE A1. THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
2. NO UNAUTHORISED DISCLOSURE, STORAGE OR COPYING.
3. THE HEIGHT OF INDICATIVE PERSON SHOWN IS 1750mm.
4. FOR ADDITIONAL DETAIL ON THE DRAWING SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.



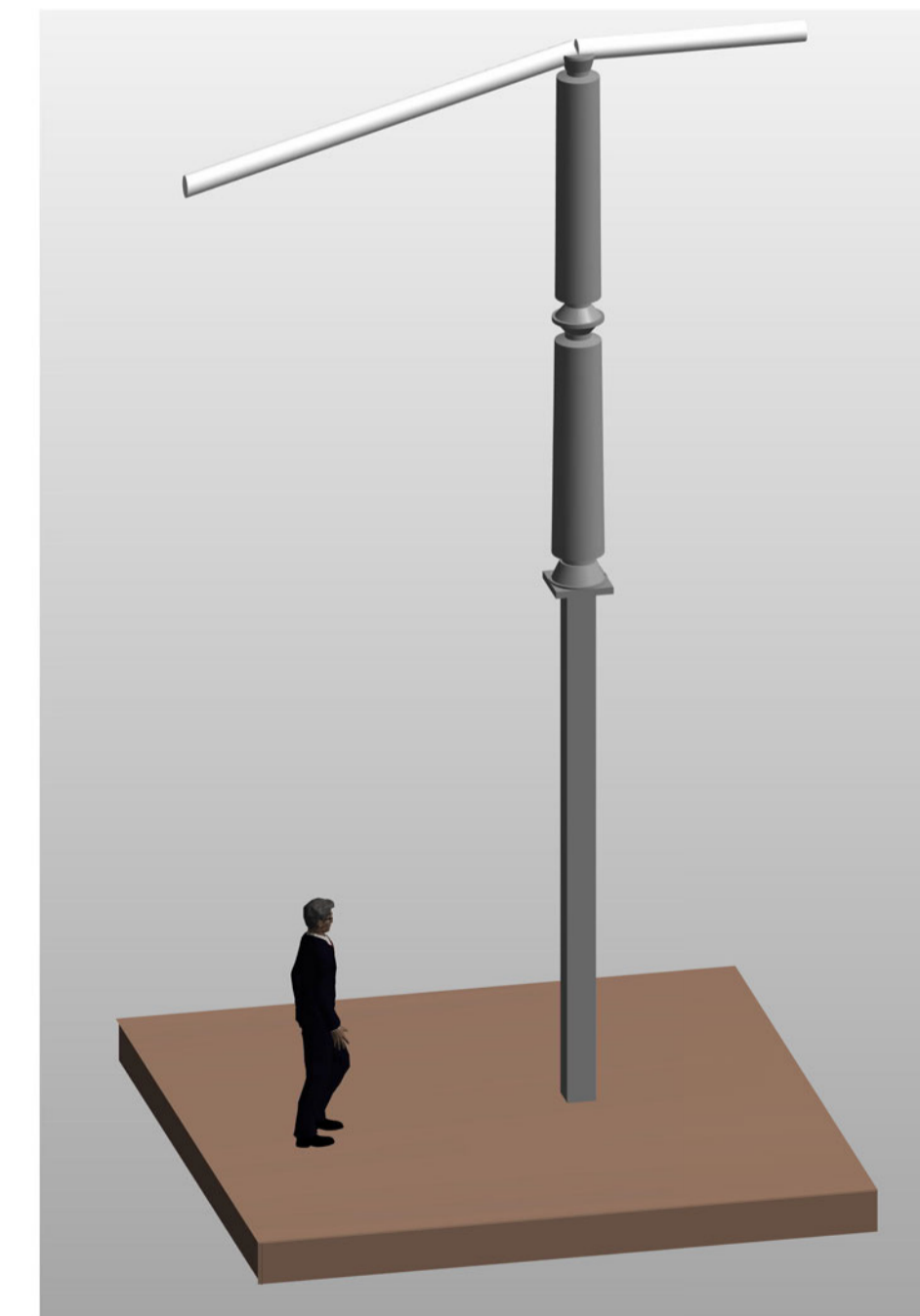
275kV SINGLE CIRCUIT BREAKER



400kV SINGLE CIRCUIT BREAKER



SINGLE POST INSULATOR



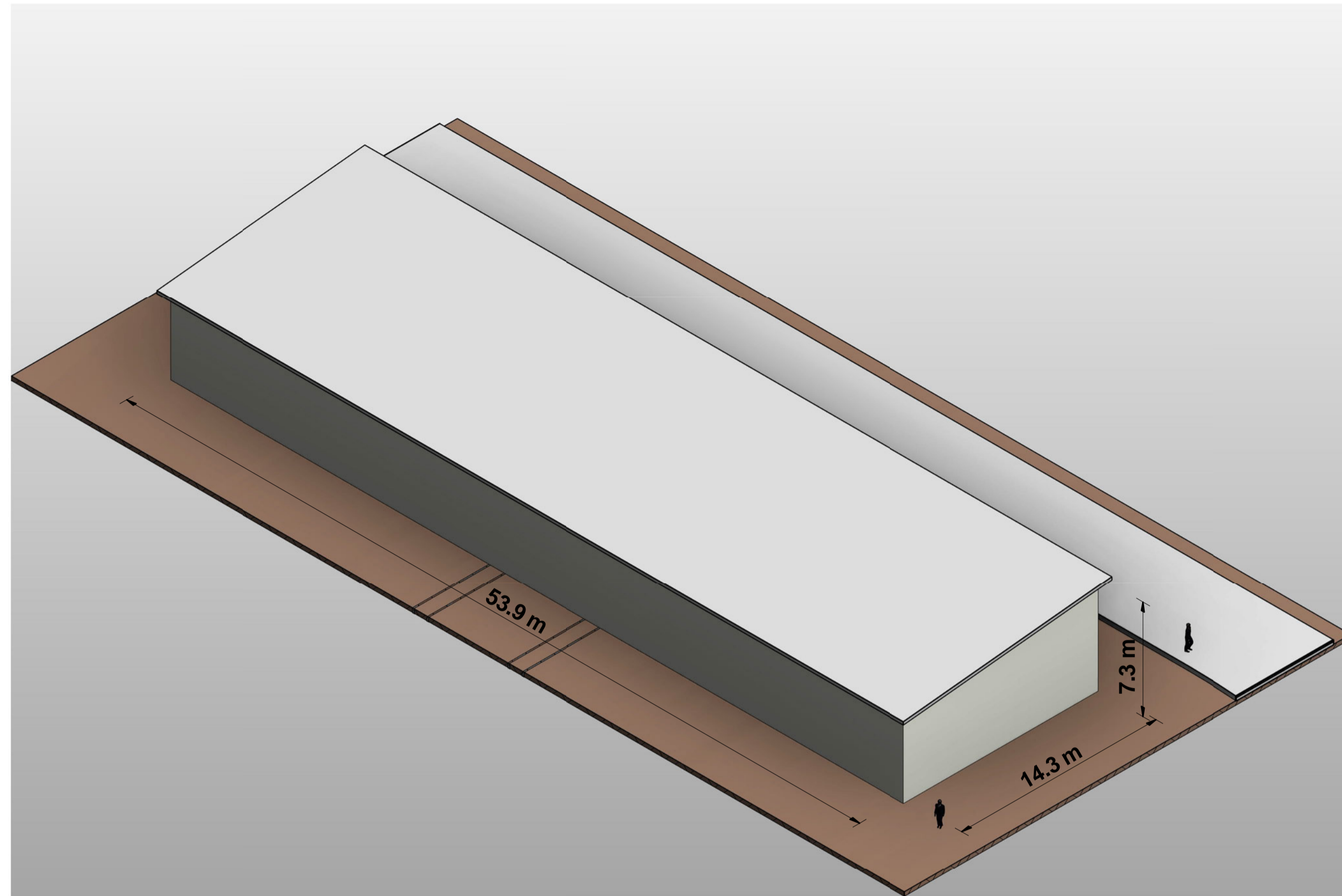
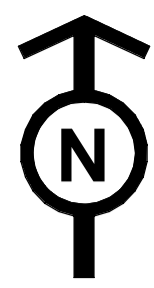
SINGLE CABLE SEALING END

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/22	FOR DCO SUBMISSION	NB	SF	EMD

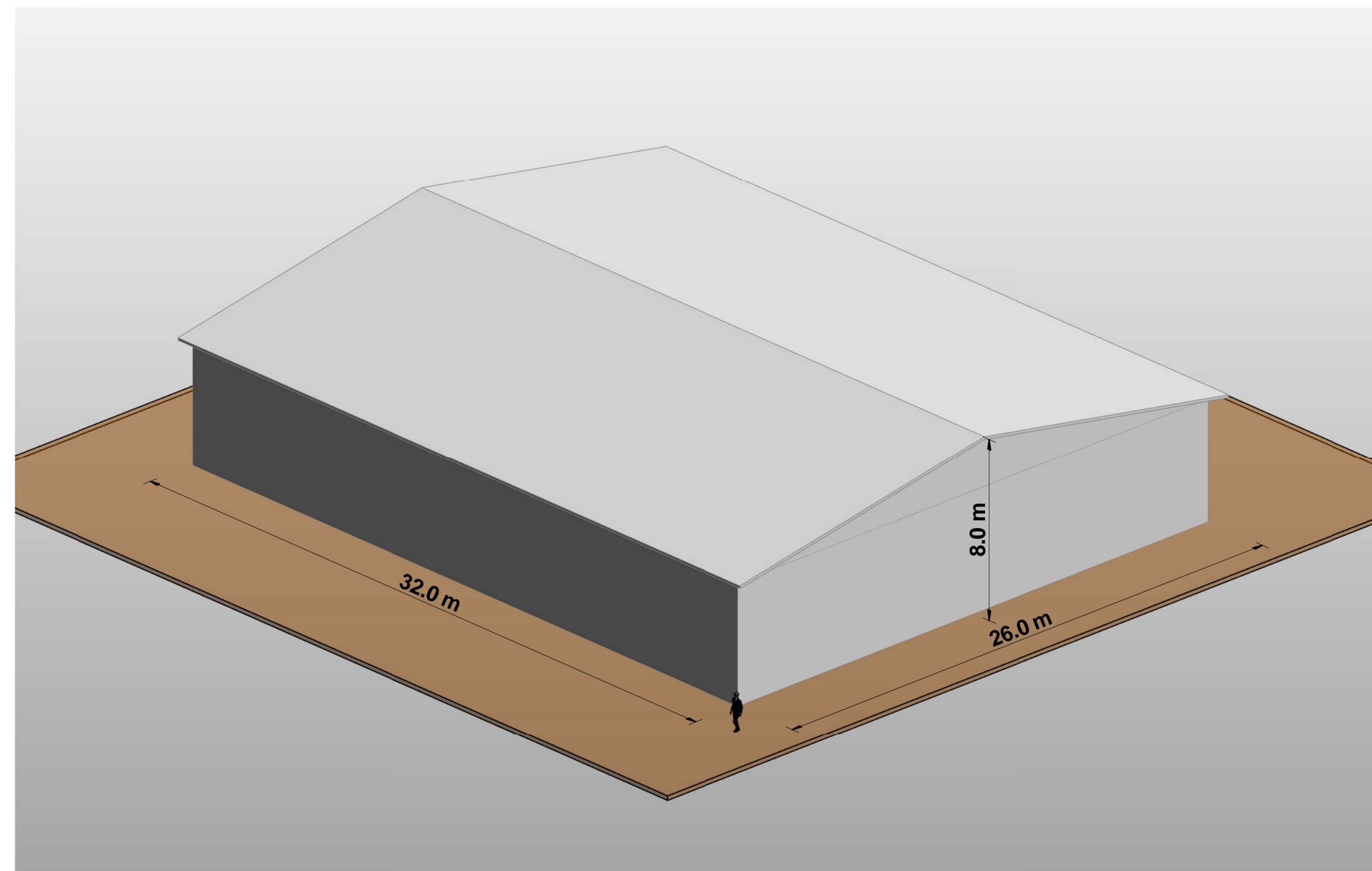
Title
 NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE
 SUBSTATION EQUIPMENT
 REGULATION 5(2)(c)
 SHEET 1 OF 4



Application Number		EN020024	
National Grid Drawing Reference			
DCO_CO/PS/6_01			
Scale	Sheet Size	Sheet	Issue
N.T.S.	A1	SHEET 1 OF 4	A



CONTROL BUILDING-OVERTON



CONTROL BUILDING - MONK FRYSTON

Notes

1. THIS DRAWING IS SCALED AT PAPER SIZE A1. THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
2. NO UNAUTHORISED DISCLOSURE, STORAGE OR COPYING.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
4. THE HEIGHT OF INDICATIVE PERSON SHOWN IS 1750mm.
5. FOR ADDITIONAL DETAIL ON THE DRAWING SUITES, PLEASE REFER TO DOCUMENT 2.3 PLAN GUIDANCE DOCUMENT, LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/11/22	FOR DCO SUBMISSION	NB	SF	EMD

Title

NATIONAL GRID
 (YORKSHIRE GREEN ENERGY
 ENABLEMENT PROJECT) ORDER
 CONSTRUCTION PLAN: ILLUSTRATIVE
 SUBSTATION EQUIPMENT
 REGULATION 5(2)(o)
 SHEET 4 OF 4



Application Number		EN020024	
National Grid Drawing Reference			
DCO_CO/PS/6_04			
Scale	Sheet Size	Sheet	Issue
N.T.S.	A1	SHEET 4 OF 4	A

**National Grid plc
National Grid House,
Warwick Technology Park,
Gallows Hill, Warwick.
CV34 6DA United Kingdom**

**Registered in England and
Wales
No. 4031152**

