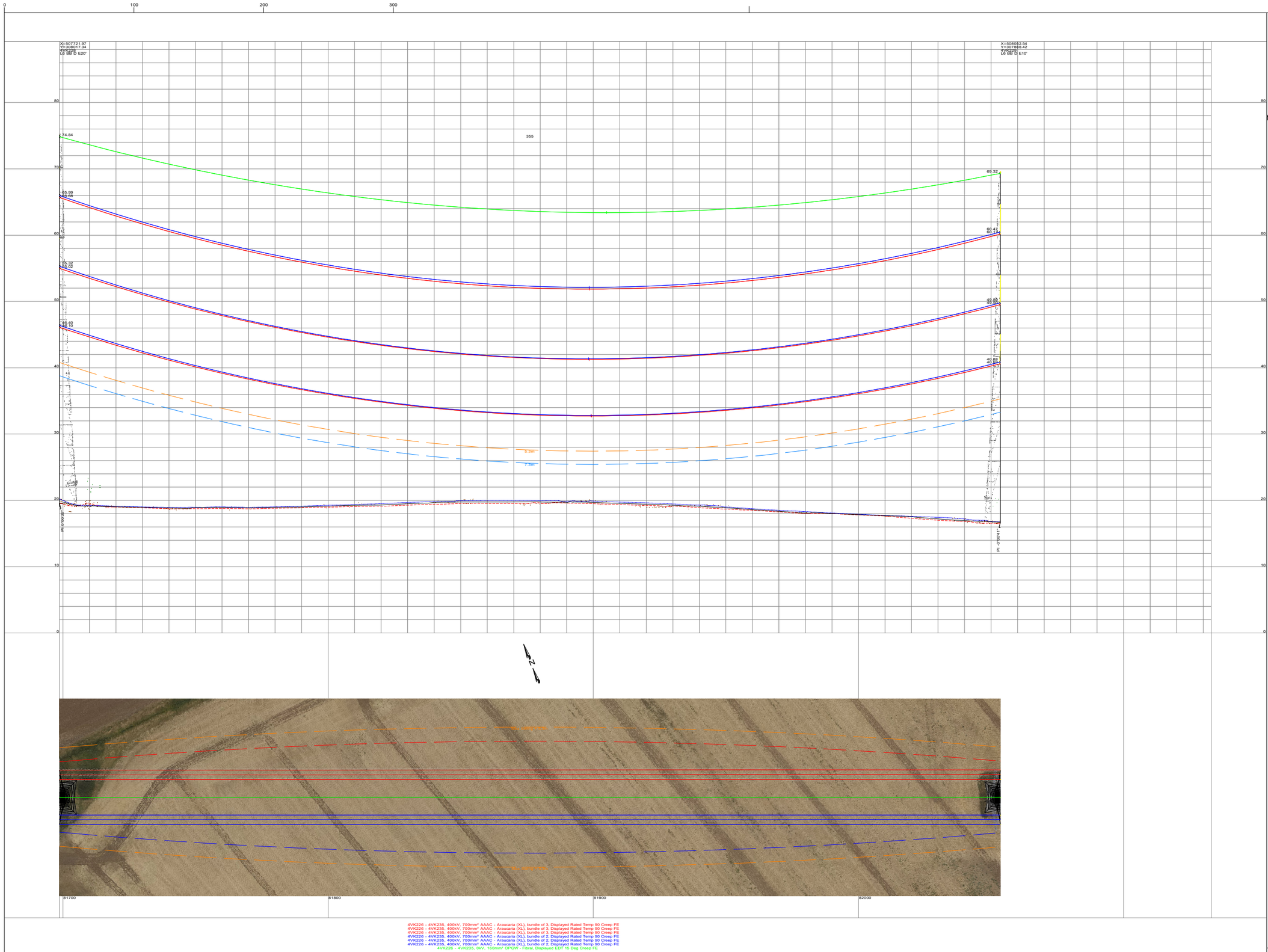


4VK226 - 4VK235, 400kV, 700mm² AAAC - Araucaria (XL), bundle of 3, Displayed Rated Temp 90 Creep FE
4VK226 - 4VK235, 400kV, 700mm² AAAC - Araucaria (XL), bundle of 3, Displayed Rated Temp 90 Creep FE
4VK226 - 4VK235, 400kV, 700mm² AAAC - Araucaria (XL), bundle of 2, Displayed Rated Temp 90 Creep FE
4VK226 - 4VK235, 400kV, 700mm² AAAC - Araucaria (XL), bundle of 2, Displayed Rated Temp 90 Creep FE
4VK226 - 4VK235, 400kV, 700mm² AAAC - Araucaria (XL), bundle of 2, Displayed Rated Temp 90 Creep FE
4VK226 - 4VK235, 0kV, 160mm² OPGW - Floral, Displayed EDT 15 Deg Creep FE

National Grid Overhead Line Profiles

Profile Description:

This profile is derived from the use of LiDAR data and shows the position and status of the power line at the time of survey. Please note that ground levels may have changed since the survey date.

As the amount of power increases in the lines, the temperature and the sag of the conductors also increases. A computer model has been applied to show the conductor at the maximum rated temperature/maximum sag. Please note that on any given day, the measured distance of the conductors from the ground is likely to be greater than the minimum, as the conductors are unlikely to be at maximum temperature /sag.

The profile states the lines current voltage. Any construct ion under the lines should allow for the possibility of future upgrading of the line from 132kV to 275kV or 275kV to 400kV. Any permanent structures should adhere to the increased clearances requirements.

It remains the responsibility of the third party to ensure the safety clearances are met during their proposed operations by using the conductor positions at their maximum sag/swing.

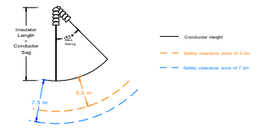
Required Clearances:

The following selection of required clearances are from the Energy Networks Association Technical Specification 43-8. Please refer to this document for all clearances and explanations.

Item	Description of Clearance	Minimum Clearance (metre) at 400kV
1	To Ground	7.3
2	To Normal Road Surface	8.1
3	To road surface of designated "6.1 metres high load" routes	9.2
4	To motorway or other road surface where "skycradle" can be used	10.5
5	To motorway road surface where scaffolding is to be used on: (i) Normal 3 lane motorways (ii) Elevated 2 lane motorways	16.3 13.3
6	To any object/building on which a person may stand, including ladders, access platform, etc.	5.3
7	To any object to which access is not required AND on which a person cannot stand or lean a ladder	3.1
8	To trees under or adjacent to line and: (i) Unable to support ladder/climber (ii) Capable of supporting ladder/climber (iii) Trees falling towards line with line conductors hanging vertically only	3.1 5.3 3.1
9	To trees in orchards and hop gardens	5.3
10	To irrigators, slurry guns and high pressure hoses	30.0
11	To street lighting standards with: (i) Standard in normal upright position (ii) Standard falling towards line with line conductors hanging vertically only (iii) Standard falling towards line	4.0 4.0 1.9

Swing Clearances:

The conductors swing (blow out) up to a maximum of 45 degrees from vertical in the presence of wind; clearances need to be maintained for this situation.



ISSUE	A		
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APPROVED			

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National Grid plc UK Transmission
Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

Title: Towers 4VK228 to 4VK229

Survey Dates: 28/08/24, 12/09/24

Site	4VK (Cottam - Ryhall)		A0
Originator Drawing Number	4vk001a-235_24124_a		CAD
NG Drawing Number	28_NG_0191_1	Sheet No. / No. of Sheets	ISSUE A
SCALE:-	NG Project No		

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