



132kV OHL Work No.1 Profiles - Alternative Terminal Option

January 2016

Brechfa Forest Connection Project

The drawing illustrates a proposed powerline route with the following details:

- Plan View:** Shows the powerline path (red line) over a road and through various terrain features. Key points include spans (e.g., SPAN 122.18, SPAN 126.23, SPAN 98.78, SPAN 109.47, SPAN 111.88, SPAN 115.77, SPAN 125.14, SPAN 106.92, SPAN 115.11, SPAN 102.52, SPAN 145.88, SPAN 95.33) and sags (e.g., SAG 2.41, SAG 2.58, SAG 2.59, SAG 1.35, SAG 1.94, SAG 2.02, SAG 2.16, SAG 2.55, SAG 1.84, SAG 2.14, SAG 1.69, SAG 3.43, SAG 1.47).
- Vertical Curve Data:** Includes intersection points (INTER) and section points (SECT) with their respective stationing and set distances (e.g., INTER 16X305 (222) SET 2.14, SECT (H) 15X370 (218) SET 2.7M).
- DTM and LSTC Data:** A blue line represents the Digital Terrain Model (DTM) data, and a purple line represents the Least Squares Trend Curve (LSTC) survey data.
- Cross-Section Table:** Provides detailed information about the route, including descriptions of terrain features, elevations, chainages, left and right side measurements, and land usage (Pasture, Road, Track, Field).

Diagram illustrating the proposed bridge deck cross-section and its relationship to existing infrastructure:

- SIDESLOPE AT 5.0m LT** (Left Side Slope)
- SIDESLOPE AT 5.0m RT** (Right Side Slope)
- Pole** (Vertical support structure)
- Conductor** (Horizontal structure below the pole)
- Ground Clearance** (Distance from ground to the conductor)
- Existing Infrastructure Position** (Indicated by a dashed vertical line)

1. WOOD POLE DESIGN BASED OM WPD SPEC: OH4B/1
2. ALL STRUCTURE CAPACITIES HAVE BEEN DESIGNED TO THE ASSUMED GROUND TYPE 2 (AVERAGE/POOR SOIL..
3. STANDARD PLANTING DEPTHS FOR UNSTAYED POLES = 2.4m
STAYED POLES = 2.1m. POLE DEPTHS INCREASED BY 300mm WHERE REQUIRED.
4. OHL SAGS BASED ON POPLAR AAC CONDUCTOR FOR SIDE SLOPE CHECKS. IN GENERAL, CENTRE PHASE (POPLAR OPCC) MAY HAVE SLIGHTLY LARGER SAGS, SPAN DEPENDANT.
5. SURVEY DATA: JAN 2015 LSTC

This drawing is scaled at paper size A0, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

A	NOV 15	FOR DCO SUBMISSION	JH	GS	AJH
ISSUE	DATE	COMMENTS	DRAWN	CHKD	APPD



132kV OHL WORK No.1 PROFILES
BRECHFA FOREST CONNECTION
ORDER
(REGULATION 5(2)(o))
ALTERNATIVE TERMINAL OPTION

<u>ORIGINATOR DRAWING No.</u> 58_13571_111	<u>APPLICATION No.</u> EN020016	CAD A0
<u>PROJECT DRAWING No.</u> 15/WPD/106	SCALE -	
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