

WELLINGTON & COLLUMPTON SIGNAL SIGHTING PROJECT FOR 2 PROPOSED NEW STATIONS

Client: AtkinsRéalis



"Congratulations for another superb VR model. For signal sighting alone, not only did we save time on site, but we were able to visualise in detail how the station would look. This enabled us to move station equipment, raise a signal to ensure sighting over stationary vehicles and ensure alignment was optimised to enhance sighting. This is in addition to removing 2 Banners from the scheme, which without such a detailed model would have been installed to de-risk the commissioning."

Paul Harrison MIRSE MIET
Signal Sighting Chairman
Central Rail Systems
Alliance



OVERVIEW

Somerset West and Taunton Council and Mid Devon District Council put together plans to reopen Wellington and Cullompton railway stations. Both stations closed during the infamous Beeching cuts of the mid-1960s. Network Rail is currently spearheading the development stages of the project with detailed designs and a full business case following receipt of £5m from the Department for Transport.

Once complete, Wellington and Cullompton will provide two additional stations that will serve the Great Western Mainline from London Paddington to Penzance and sit either side of Tiverton Parkway station. Both stations closed in 1964 and both towns have grown in population since then and are the largest settlements unserved by a rail station between Exeter and Taunton.

The team at True North Rail were called upon to utilise their TrueSight™ platform to review the current proposed signalling designs and then to gain approval from the Signal Sighting Committee on any future signalling design changes.

We then set to work using our advanced gaming engine platform, TrueSight™ to provide an innovative and cost-effective solution. Our team utilised client BIM data and various GIS datasets to create a photorealistic Signal Sighting model using Unreal Engine.

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"True North Rail VR models are brilliant"

**Martin Brown Senior Signalling Design Manager/CRE
AtkinsRéalis**



OUR ROLE

Key Actions:

Using our TrueSight™ tools we were able to dive the Signal Sighting Committee into a real-world demonstration by showing them complex signalling design changes during our discussions which enabled them to swiftly reach compliance.

We were also able to provide a seamless review of any signalling design changes identifying a non-compliance, due to a train stationed on an adjacent track, through the collective effort to adjust and meet sighting standards promptly.

Our platform was able to revise the positions of station equipment, & raise signalling to enhance sighting over stationary vehicles and optimise alignment to increase sighting.

In just a half-day session, the Signal Sighting Committee achieved approval on all the required signalling changes for the two new stations, eliminating the need for two signal banner repeaters. This not only expedited the project but also generated substantial savings of approximately £500k.

TrueSight™ doesn't just facilitate signal sighting; it fosters a dynamic environment for collaboration, enabling stakeholders to iterate and agree on solutions with unmatched speed and efficiency.

Our client reported: "Absolutely Amazing. The models produced by True North Rail are outstanding and enable signal sighting to be visualised in detail and decisions to be made with confidence, saving the committee time on site and ensuring detailed decisions can be made early, saving time, money and rework."