

## FAZAKERLY CUTTING SIGNAL SIGHTING - using 3D Laser Scanning



Edmund Nuttall were commissioned to improve the sighting of the signal in the Fazakerly cutting to give the required 275m clear line of sight.

ScanTech International carried out a survey of the cutting using a laser scanner to determine the topography and the contours of the embankment. This was achieved in one day working outside the red zone and despite of the thick vegetation and the information was made available in CAD format two days later.

The system calculated the volume of earth works to be removed and as a result it was decided to add an early warning signal at a cost of £50K. This compared with the estimated cost of the earthworks of £250K – a saving of £200K.

If conventional surveying methods had been employed a line possession would have been required with all the attendant problems and costs.

Profile of Embankment showing  
sight line of signal

