

CASE STUDY

Bolton Interchange – Onsite BIM Station



CLIENT

Transport for Greater Manchester

PRINCIPAL CONTRACTOR

KIER

KEY BENEFITS



Brings BIM to site



Increases coordination awareness



Mitigates potential reworks and wasted materials



Used to induct operatives onto the project virtually

NG Bailey has introduced BIM stations at a number of projects including the new the Bolton interchange, Copperas Hill and MECD.

What is it?

A BIM Station is a high powered computer which acts as a go to location for all operatives to use. Housing the latest project information, the station is specifically positioned on site for communal use to aid the viewing of a project's BIM Model and drawings providing easy access for all staff.

To improve efficiency, the stations automatically start each morning with the latest Navisworks model so that the latest information is instantly available for the site team to use.

Why?

NG Bailey introduced BIM stations as we identified that the full benefits of the BIM model were not being utilised by all project stakeholders. This effective solution mitigated potential hardware and software pitfalls outside of our control. They are used to quickly resolve issues that require coordination with other trades as they arise out in the field.

Results:

Feedback has been very positive. Focusing on just a two week period on the Bolton Interchange project some of the benefits achieved included:

- The model helped demonstrate to the duct work contractor what the impact would be of them installing their services in the wrong location and the implications and additional costs that would be incurred as a result
- The model saved considerable time by enabling the dry lining contractor to understand how far he could take his boards underneath a bulk head and how much space he needed to save so services could be completed. The site operative showed the contractor the space virtually and measured and agreed a distance in just 5 minutes. Using traditional construction methods this would have involved working from drawings and be far more resource intensive
- BIM helped the development of the distribution board strategy where two additional boards were required. The model quickly demonstrated how the additional panel would fit within the space constraints
- The model helped the site team to understand the sequencing for the multi-stacked services which are highly complex
- Whitecroft utilised the model as part of their process.

