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Bletchley is a long narrow site incorporating four operations plus access to Network Rail's maintenance yard. The site is extremely busy with high volumes of traffic, and together with the footprint, provides traffic management challenges. Recently a new elevated railway station has been built on site, reducing the width at the top end of the site access road, affecting traffic flow and vehicle and people interactions.

The installation of the new station impacted on the existing site office and car parking arrangements. The offices were moved to the other side of the site and the weighbridge also had to be relocated. Due to the repositioning of the buildings, the length and width of the existing car-parking space was reduced, limiting the capacity for parking and drivers were accessing the office using an unprotected walkway directly alongside the busy haul road.

Pedestrian access to the ready-mix and mortar plants has historically been located to the rear of the site to eliminate employees walking along the busy haul road, however, this route required access alongside the internal rail sidings with hazards/risks of train movements during discharge.

Following collaboration with relevant stakeholders, a traffic management working group was set up. Site meetings were held with the safety dept and all operations on site to formulate a three-stage plan to improve segregation between pedestrians, vehicles, and trains.

Please see additional pdf for details of the design process