

# Buckinghamshire Junctions Improvements Scheme

## Project Profile

**Client:** HS2/Fusion JV

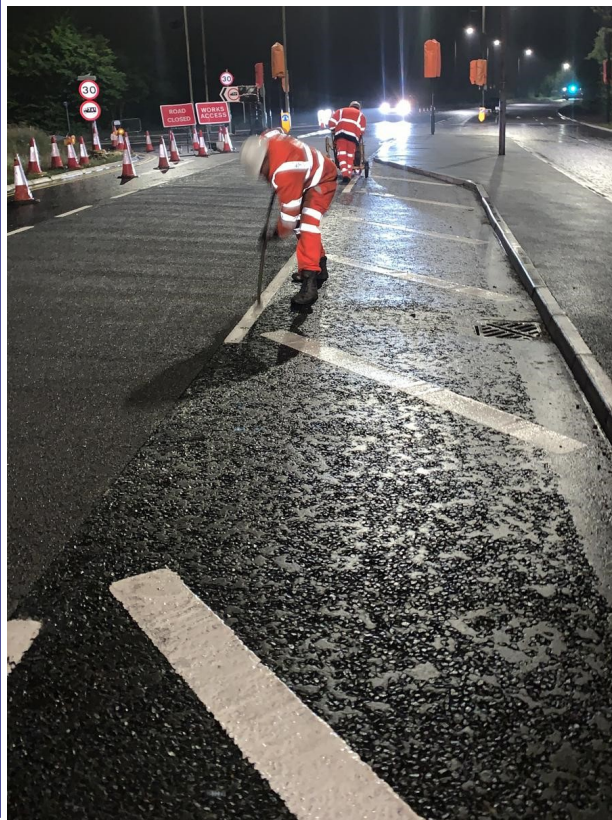
**Designers:** Pell Frischmann  
& Stantec

**Value:** £4.1m

This scheme was carried out to complete highway improvement and widening works at various junctions throughout Buckinghamshire to enable access for construction vehicles, and plant for HS2 main works.

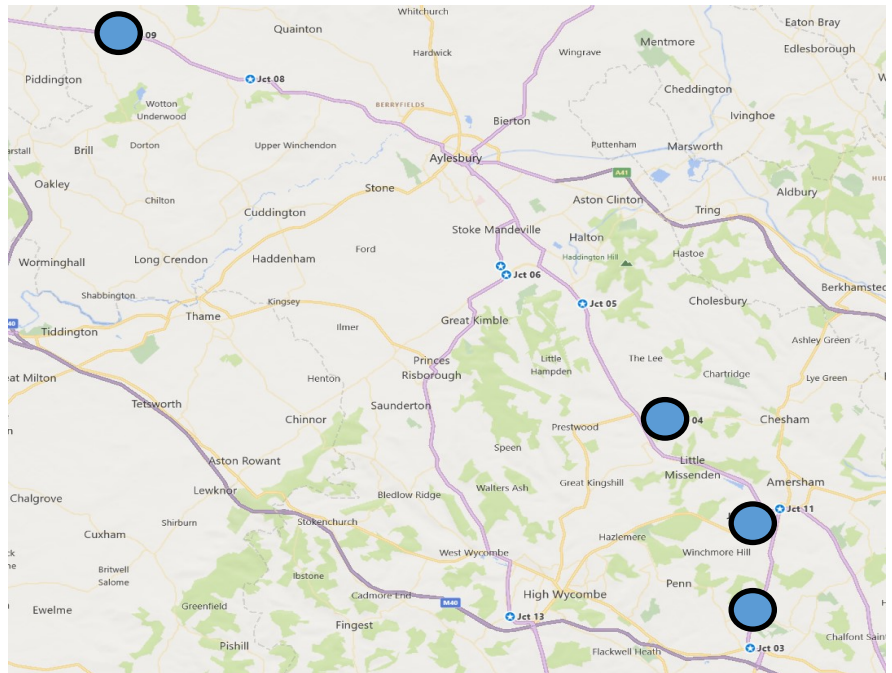
In November 2019 Forkers Ltd were appointed to assist Fusion JV via an Early Contractor Involvement (ECI) order to produce pre-construction documentation including: consents applications, construction logistics plan health & safety plan, environmental and quality plans. Works were due to start on site on 30th March 2020 but were delayed due to coronavirus until 4th May 2020. Early engagement by Fusion JV allowed us to become integral to the planning and successful delivery of the project.

We resourced a Project Manager and two site agents to manage site operations and works programming, all of whom were based on site throughout construction, co-located with the Fusion Project Manager and site engineers. Working from a small compound in Amersham, 4no. Junction improvement schemes were delivered within the 9 week programme, inclusive of site set up and demobilisation. The works involved at each junction are as follows:



**Junction 1** - Altering an existing 'T' junction on the outskirts of Amersham to a signalised junction which included:

- Majority of the works were carried out at night within a road closure with an extensive diversion route in place.
- De-vegetation works.
- Central reserve alterations works – kerbing, gully relocation and surfacing works.
- Splitter island alterations works – kerbing and surfacing works.
- Carriageway construction including narrow widening and full road construction.
- Ducting & chambers for traffic signals including NAL sockets and traffic signals within verge, footpath and highway.
- Installation of detector loops in the carriageway with associated chambers and ducting.
- Cabling & traffic signal commissioning.
- Planing and resurfacing.
- Anti skid surfacing, road markings and studs,
- Street lighting relocation,
- Modification of existing street signs and installation of new street signs





# Buckinghamshire Junctions Improvements Scheme

(cont'd)

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**Junctions 2 and 4** - Amending the layouts of an existing staggered cross road in Beaconsfield (Junction 2) and an existing 'T' junction near Great Missenden (Junction 4) comprising the following:

- De-vegetation works.
- Installing traffic signs and cleaning existing traffic signs.
- Relocating illuminated traffic signs.
- Hydro blasting to remove existing road markings.
- Installation of new road markings and studs.
- Gully cleaning.



**Junction 9** - Improvements to an existing 'T' junction on the A41 near Waddesdon including:

- De-vegetation works.
- Kerbing, planing and re-surfacing.
- Carriageway construction to the narrow widening detail.
- Hydro-blasting to remove existing lining and installation of new road markings & studs.
- Installation of new traffic signs and Anti-skid surfacing.



All works were required to be completed off-peak/at night at the request of Buckinghamshire County Council. By their very nature the schemes were high public-facing, on a project which is unpopular amongst some locals however using our specialist supply chain partners such as Amberon TM, VacEx UK, Toppesfield surfacing and Riggotts Lining, the works were executed to programme and budget with zero complaints.





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On completion of the first tranche of 4No junction improvement schemes we were engaged by Fusion to deliver a further 2nr similar junction improvement projects as detailed below. We were again involved at ECI stage to develop pre-construction documentation and traffic management designs for approval by Bucks CC.

**Junction 3** — Widening a section of carriageway in Beaconsfield adjacent to a busy 5 way roundabout. The work was carried out during either off peak daytime working or night time and included:

- De-vegetation works.
- Gully relocation,
- Kerb line removal,
- Installing new kerb line and carriageway widening,
- Carriageway & footpath surfacing,
- Installing traffic signs and cleaning existing traffic signs.
- Hydro blasting to remove existing road markings.
- Installation of new road markings,
- Gully cleaning.

**Junction 5** — Works involved widening a narrow country lane with all works carried out at night in a road closure. The road was reopened to through traffic the end of each shift. Works included:

- De-vegetation works.
- Gully relocation,
- Kerb line removal,
- Installing new kerb line and carriageway widening,
- Street light relocating,
- Carriageway planing & surfacing,



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