

Contact our HS2 Helpdesk team on **08081 434 434**

HS2 Update

Twyford to Greatworth | Autumn 2024



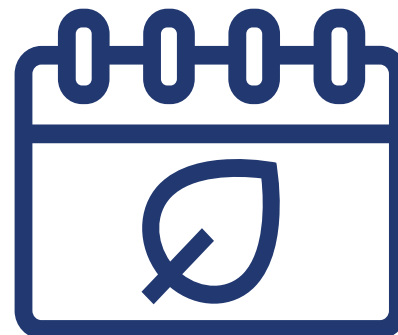
High Speed Two (HS2) is the new high speed railway for Britain. You can sign up for regular updates in your local area at www.hs2inyourarea.co.uk

Inside our autumn newsletter....

Our newsletters are a valuable tool used to update local communities on the progress of the HS2 project. This newsletter has been created specifically for the Twyford to Greatworth (T2G) construction area, located between Twyford in North Buckinghamshire and Greatworth in Northamptonshire. It includes the latest information on upcoming construction activities and expected timelines while also highlighting our efforts to support local communities.

In this addition of our newsletter, we will be looking at works coming up over the next few months and this will include updates on:

- A43 overbridge.
- Radstone road overbridge.
- Turweston green overbridge update.
- Turweston viaduct update.
- Westbury viaduct.
- A422 update.
- A421 overbridge and permanent realignment update.
- Godington viaducts update.
- Chetwode update.
- Twyford viaduct update; and
- Information on extended working hours.

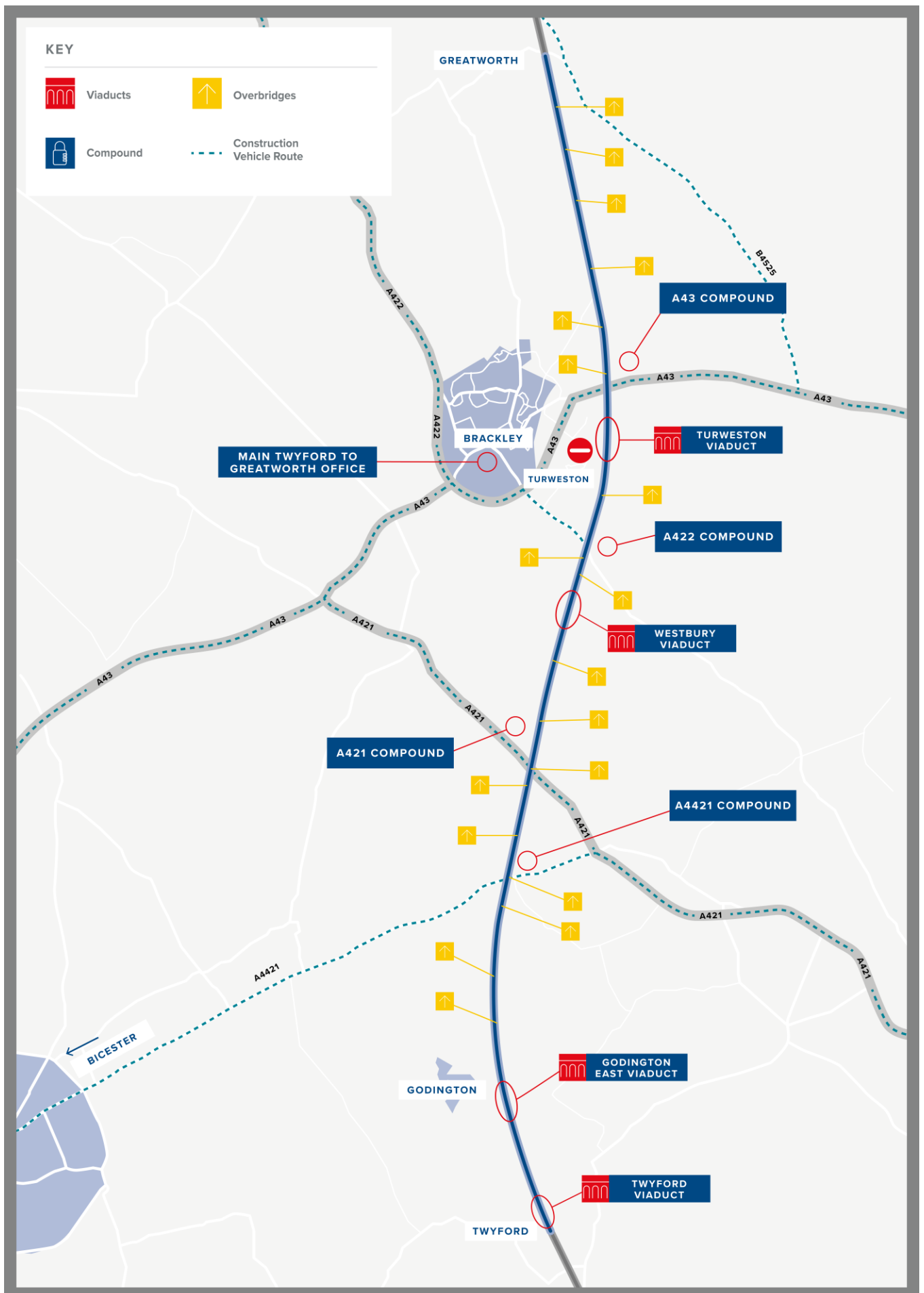


Meet the Team

Come and talk to us on Thursday 28 November, 12:00pm - 16:00pm. Egerton Hall, Juno Crescent, Brackley NN13 6GN

Meet your teams from EKFB, HS2 as well as National Highways and find out more about the project near you and our progress so far.

Please contact the HS2 Helpdesk or visit hs2.org.uk/events for more information on events in your area. www.hs2.org.uk/events



Construction update

A43 near Brackley

Throughout the summer our teams have been carrying out excavation works within our island site of the A43. These excavation works enable us to form the foundations of the overbridge.

We are currently carrying out concrete pours to construct the piers and abutments which will support the 66-metre-long bridge deck that will carry the new A43 road.

Early next year, we will complete the drainage and utility works and install steel beams that span the bridge piers. Once the beams are installed works for the concrete deck will start.

Following completion of the bridge deck the road will be moved over to the new bridge and excavation can begin to create space for the railway to pass underneath. This multi-stage approach was designed to keep traffic flowing and reduce disruption.

Frequently asked questions about our works along the A43

Q: Will there be any future full weekend road closures?

A: Yes. We will need to close the road to safely lift steel beams over the A43 and into place on the structure. These works are expected to take place in early 2025 and will require full weekend road closures. We will update communities as our works progress. You can sign up for the latest works updates in your local area at: <http://www.hs2.org.uk>



Radstone Road overbridge update

Over the summer our teams received delivery of the beams for the Radstone Road overbridge. These were successfully installed and works on the concrete deck commenced in September. We have now finished construction of the concrete deck, and our teams have started to install the bridge parapets.



Figure 1: Teams at the Radstone Road overbridge conducted the concrete pour for the overbridge's deck in September 2024.



Figure 2: Radstone Road overbridge being prepared for the installation of the parapets, October 2024.

Construction update

Turweston green overbridge

The 99-metre-wide Turweston green bridge is the largest on the high-speed route and will cross the railway near the village of Turweston, which is on the outskirts of Brackley. An increasingly common sight above new railways and motorways on the continent, green bridges protect birds, mammals, and insects by allowing safe passage across the tracks.

The bridge will cross one of the railway's longest and deepest cuttings, which will stretch for 2.4km (1.5 miles) past the village of Turweston on the edge of Buckinghamshire and West Northants. Thirty-four steel beams will support the structure. There will be 2,700 cubic metres of earth landscaped over the top, with the hedgerows, shrubs and other vegetation planted last.

During the design stage better than expected ground conditions combined with design optimisation allowed the team to cut the structure's carbon footprint by 42%. This was achieved by significantly reducing the amount of carbon-intensive concrete and steel by removing 198 deep piles and opting for shallow foundations instead.



Figure 1: Computer generated aerial image of Turweston green bridge.

Construction update

Phase one of the excavation of the cutting is well underway, alongside foundation works for the bridge. Assembly of the steelwork began in September 2024 and is expected to continue throughout the autumn. Formwork for the deck is commenced from the end of October. This will include the installation of fibre glass reinforced plastic panels. This will be followed by reinforcement installation of the deck which is expected to be completed in early spring. Our teams will then complete the concrete bridge deck.



Figure 2: Construction of the Turweston green overbridge, September 2024.



Figure 2: The image above shows progress on the installation of steel beams for the Turweston green overbridge, October 2024.

Construction update

Turweston viaduct update

In late September, engineers at the Turweston viaduct completed the construction of two abutments, which will support either end of the 80m long viaduct. Our teams will soon begin the lowering the viaduct into its final position. Focus will turn to assembling the deck girders ready for launch of the 591-tonne structure early next year. The deck installation is expected to commence from January 2025 and will take approximately six months to complete.



A421 overbridge and permanent realignment update

Throughout the autumn, our teams have been carrying out enabling works for the diversion of a water main that runs along the A421. This has included utility trial holes and some localised vegetation clearance. In early 2025, we will be installing the new permanent utilities as well as drainage. This will be followed by highways works for the new road realignment and overbridge. For reasons of safety, when our teams are working along the A421, we may require traffic management in the form of traffic lights or full road closures. Should this be required we will issue advance work notices and update the HS2 Website with the traffic management dates. As work progresses, we continue to update communities.



Westbury viaduct update

In September, our teams assembled the remaining steel beams and moved the viaduct's deck 118m into its final position. With the steelwork now in position at Westbury, engineers can begin the challenging job of lowering the deck 60cm onto the permanent bearings which will support the full weight of the structure.

The two-month long operation will see the steelwork above each pier carefully lowered by 20cm at a time, pier-by pier, until the whole 320m long deck settles into its final position. Once this is completed work on the constructing the deck can commence.

A422 overbridge update

From the end of the summer, our teams began constructing the abutments for the new overbridge. These were completed this October. Next, we will be building the piers and pier columns. The piers will be 18m in height and the overbridge itself will be 130m in length. Works for the superstructure are planned to commence in early 2025, this will include the installation of the beams, fibre glass reinforced panels and the pouring of the concrete deck in early summer.

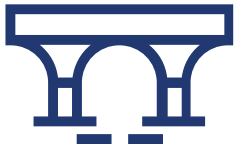


Figure 3: Westbury deck slide looking south, October 2024.



Figure 4: View from one of the completed abutments for the Turweston viaduct, October 2024.

Construction update



Godington viaducts update

In early summer, our teams completed all piling works for Godington east viaduct. We then installed cofferdams around the piers in July and these were completed in early August. The cofferdams allow us to excavate below ground water level to allow us to construct the pile caps, these form part of the foundations, for the piers of the viaduct. Since August, we have completed 75% of the pile caps for Godington east viaduct. Over the next three months we expect to complete construction of all the piers and abutments. Godington west viaduct has followed a similar construction programme, and teams expect to complete all the piers and abutments for this viaduct in early 2025.

The Godington viaducts are each 75 metres in length and 12.7 metres in width with the rack height approximately 5.5metres above existing ground level. The viaducts are expected to be completed towards the end of 2025.



Working hours

As we move into the winter months, we will be adjusting our core working hours between Twyford and Greatworth. Working hours, as consented by local authorities, will now be Monday-Friday 7am-5pm and Saturday 8am-5pm. There are locations where hours may vary due to specific activities taking place such as concrete pours and maintenance works.



Figure 5: The above computer generated image is a view of the south abutment of Godington viaduct and diverted Padbury Brook.

Construction update

Chetwode update

In the autumn, our teams carried out works on the decks of both School End overbridge and CHW18 overbridge. Throughout the winter they will be completing the concrete decks and piers. This will then be followed by the installation of the parapets for both overbridges in early spring.

School End overbridge and CHW18 overbridge are both expected to be completed in the summer of 2025.



Figure 6: Our teams in Chetwode are currently working to complete the deck of School End overbridge. The above image shows work for the deck progressing, October 2024.

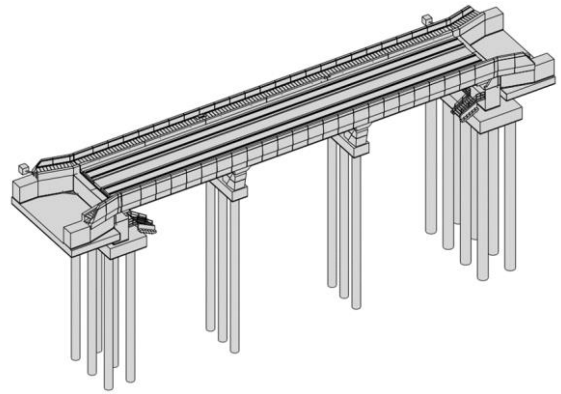


Figure 7: A 3-D model of the Twyford viaduct, showing the makeup of its construction consisting of two abutments and two piers.

Twyford viaduct update

In September, we completed the installation of approximately 800 pressure relief drains. Throughout the autumn, we are constructing a temporary works platform to be able to carry out the installation of sheet piles. These will be used to create cofferdams so that we can then carry out piling activities for the foundations of the viaduct. There will be 20 piles, and these works will take approximately one month. Once the piles are completed, we will then cap the piles and begin work on the piers and abutments in early spring 2025. The viaduct is expected to be completed in 2026 and is the most southern structure being built in EKFB's construction area, between Twyford and Greatworth.



Britain's biggest build

54 British built bullet trains will travel at a top speed of 225mph along 140miles of high-speed track between London and Birmingham.

225mph

Britain's next generation of high-speed trains will reach speeds of 225mph (360km/h) and will also run on the existing network.

400m long

Each train will be around 200m long, with the option to couple two units together to create a 400m long train.

1,100 seats

HS2's state-of-the-art fleet of high-speed trains will each have 1,100 seats when two 200m units are added together.

Keeping you informed

We are committed to keeping you informed about work on HS2. This includes ensuring you know what to expect and when to expect it, as well as how we can help.

Residents' Charter and Commissioner

The Residents' Charter is our promise to communicate as clearly as we possibly can with people who live along or near the HS2 route.

www.gov.uk/government/publications/hs2-residents-charter

We also have an independent Residents' Commissioner whose job is to make sure we keep to the promises we make in the Charter and to keep it under constant review. Find reports at:

www.gov.uk/government/collections/hs2-ltd-residents-commissioner

You can contact the Commissioner at:
residentscommissioner@hs2.org.uk

Construction Commissioner

The Construction Commissioner's role is to mediate and monitor the way in which HS2 Ltd manages and responds to construction complaints. You can contact the Construction Commissioner by emailing:
complaints@hs2-cc.org.uk

Property and compensation

You can find out all about HS2 and properties along the line of route by visiting:

www.gov.uk/government/collections/hs2-property

Find out if you are eligible for compensation at:

www.gov.uk/claim-compensation-if-affected-by-hs2

Holding us to account

If you are unhappy for any reason, you can make a complaint by contacting our HS2 Helpdesk team. For more details on our complaints process, please visit our website:

www.hs2.org.uk/how-to-complain

Contact Us

Contact our HS2 Helpdesk team all day, every day of the year on:

 Freephone **08081 434 434**

 Minicom **08081 456 472**

 Email **HS2enquiries@hs2.org.uk**

Write to:

FREEPOST

HS2 Community Engagement

Website **www.hs2.org.uk**

To keep up to date with what is happening in your local area, visit:
www.HS2inyourarea.co.uk

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<https://www.gov.uk/government/publications/high-speed-two-ltd-privacy-notice>

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High Speed Two (HS2) Limited, registered in England and Wales.

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