

Amersham Community Meeting

Tuesday 11 February 2020

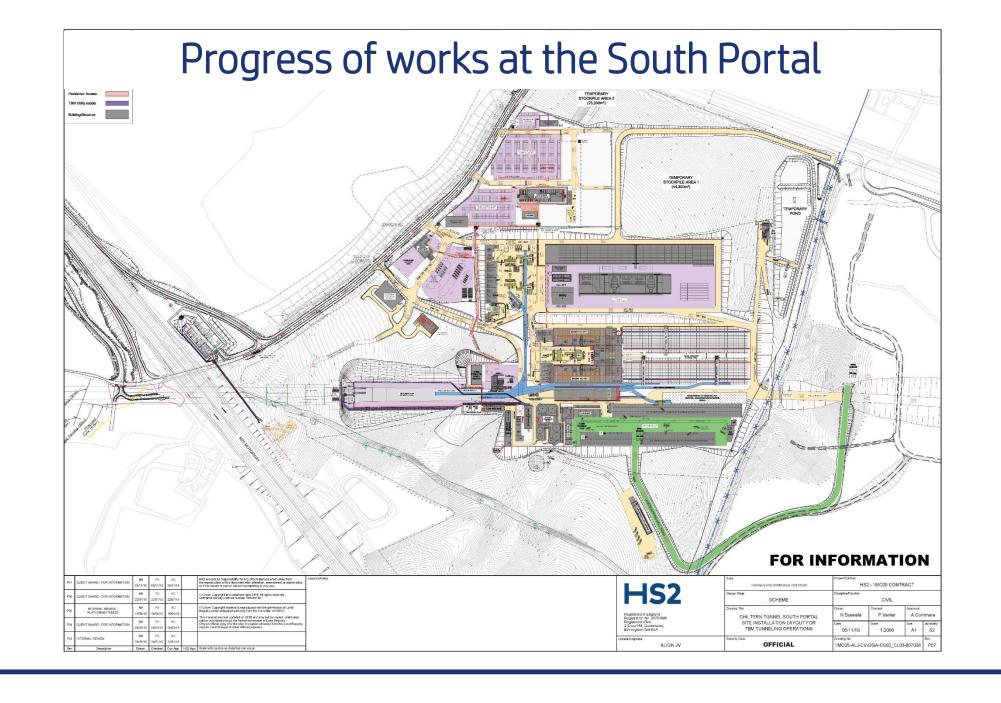
Who is presenting to you tonight

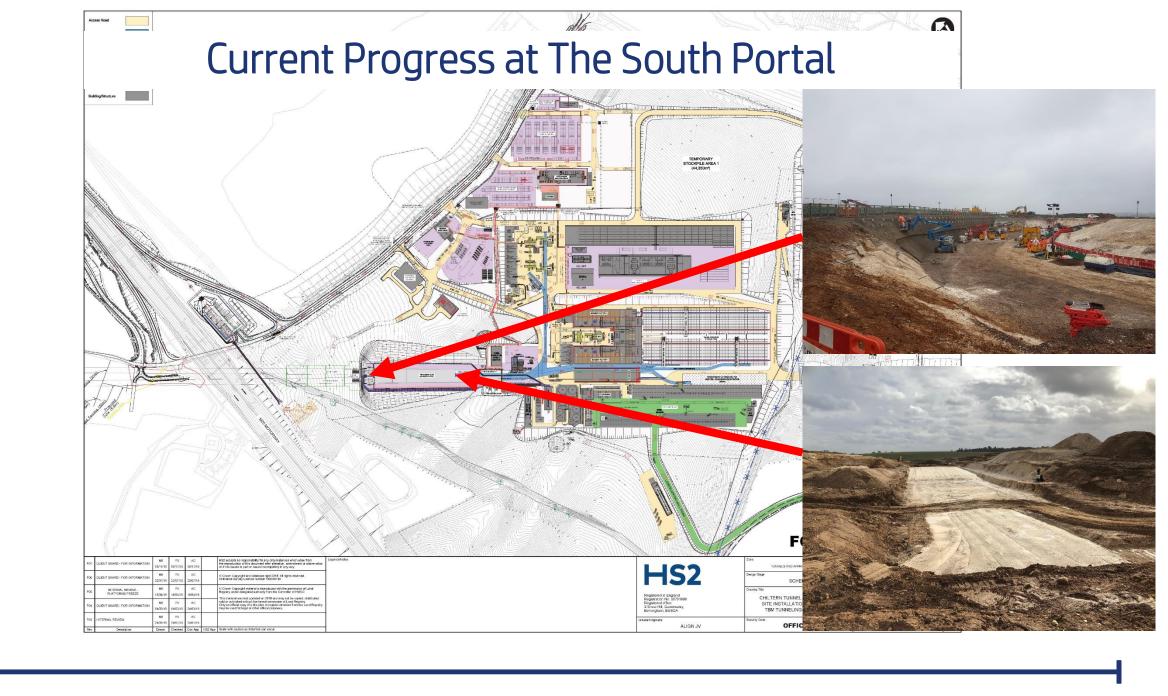
FUSION JV – Enabling Works Contractor

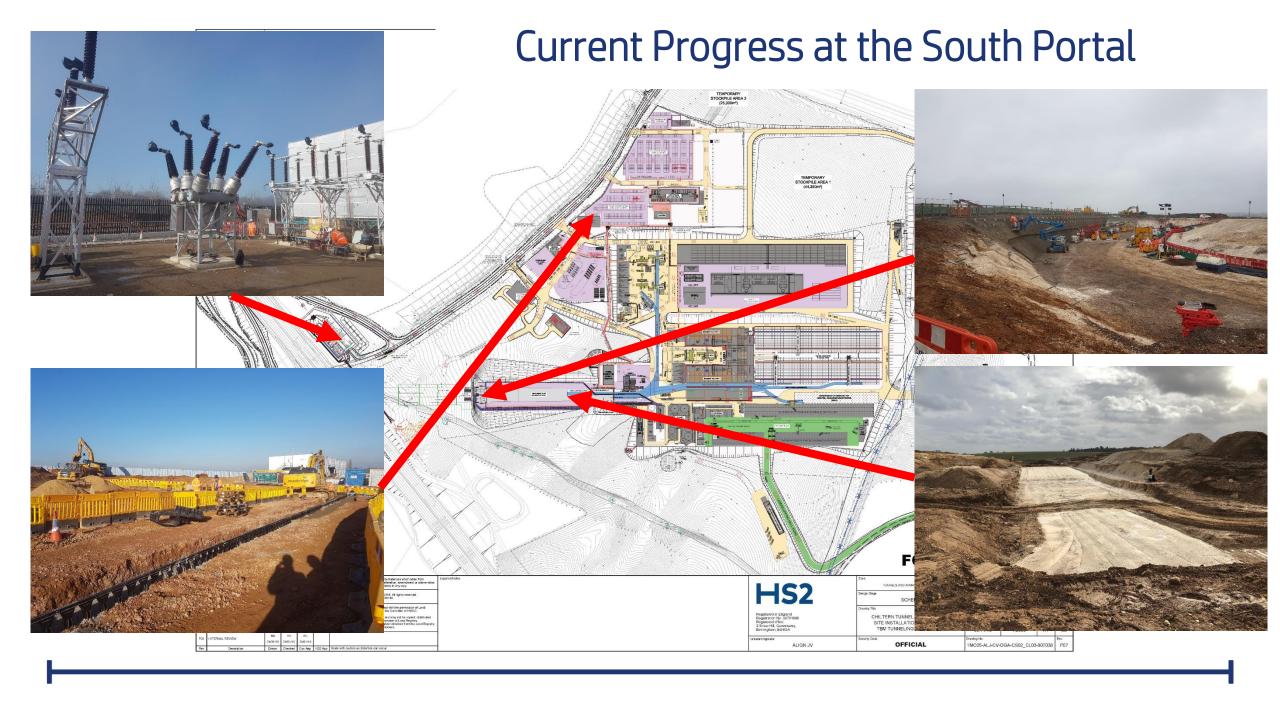
• FUSION JV, in this area, are responsible for designing and improving the junction at Whielden Lane where it meets the A404, close to the location of the future Amersham ventilation shaft for the Chiltern Tunnels. HS2 are improving several junctions across the county as HGVs will be using local roads to access the construction sites. Through the passage of the Hybrid Bill through Parliament, Buckinghamshire County Council, as the local Highways Authority, obtained what is known as an Undertaking and Assurance for these works to happen. HS2 is required to deliver these improvements, working closely with the Council on the designs. FUSION JV are also undertaking tree/vegetation clearance and site fencing/security.

ALIGN JV – Main Works Civil Contractor

• ALIGN JV are building the Colne Valley Viaduct, Chiltern Tunnels and associated ventilation/ intervention shafts. There are four ventilation shafts (Chalfont St Peter, Chalfont St Giles, Amersham and Little Missenden) and one intervention shaft at Chesham Road, South Heath. ALIGN JV's are also constructing the South Portal in West Hyde and North Portal at Great Missenden for access to/from the Chiltern Tunnels.







Current Progress on TBM Manufacture











Current Works at Amersham Shaft Site







Who are we?



- Fusion are the Enabling Works Contractor for the Area Central section (circa 100km) of HS2 Phase 1
- Area Central runs from Denham, Buckinghamshire to Southam, Warwickshire
- Examples of Enabling Works:
 - Archaeological investigations
 - Setting up construction compounds
 - Species translocation
 - Site clearance and fencing
 - Utility diversions
 - Highways realignment

Fusion enabling works: Local scope

- Undertake archaeological investigations at Little Missenden
- Highway junction safety and capacity improvements on the construction routes
- Temporary access road for the Chalfont St Giles vent shaft alongside the existing Bottom
 - House Farm Lane
- Site clearance and fencing for the vent shafts

Amersham Vent Shaft

Site mobilisation works

- Vegetation clearance
- Perimeter fencing
- Junction construction welfare establishment
- Programme: Start of Feb to end March
 '20
- Footpath remains open until main works commencement



Amersham area junction works

Being upgraded to provide increased safety and capacity, Subject to final consents and approvals

- 1. Access to Amersham Vent Shaft: A413 A404 Crematorium Roundabout
- 2. A413 Bottom House Farm Lane junction and temporary construction access road
- 3. A355 Amersham Rd, Ledborough Lane

Junctions currently under review

- A40 London Rd / A355 London End Roundabout
- A413 A355 Gore Hill Roundabout (Amersham Roundabout)

Amersham vent shaft junction

- Traffic lights installed at the junction of Whielden Lane onto the A404
- Widening of the A413 alongside the vent shaft - Great Missenden and A404 direction of travel
- Basis of design no works on the opposite side of the A404



Amersham Vent Shaft junction

Subject to final consents and approvals, including night time working

	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	
Phase 1 (A413)							
Site Clearance							Days (9.30am - 3.00pm)
New kerbs							Days (9.30am - 3.00pm)
Signing							Days (9.30am - 3.00pm)
Road Marking							Nights 9pm to 5am
Phase 2a (Whielden Lane)							
Site Clearance							Days (9.30am - 3.00pm)
Change Kerb Line							Days (9.30am - 3.00pm)
Signing							Days (9.30am - 3.00pm)
Surfacing							Nights 9pm to 5am
Road Marking							Nights 9pm to 5am
Phase 2b (A404 - Crematorium)							
New footway							Days (9.30am - 3.00pm)
Signing							Days (9.30am - 3.00pm)
Road surfacing							Nights 9pm to 5am
Road marking							Nights 9pm to 5am

A355 Ledborough Lane junction

Kingshill

lolmer Green

Mop End Woodrow Coleshill Winchmore Hill Chalfont Penn St Giles Seer Gree Forty Green Jordans ' dwater Beaconsfield

Missenden

Amersham

Little Ch

A355 Amersham Road

Longbottom Lane

Ledborough Lane

A355 Ledborough Lane junction

A355 Amersham Road - Ledborough Lane and Longbottom Lane junction

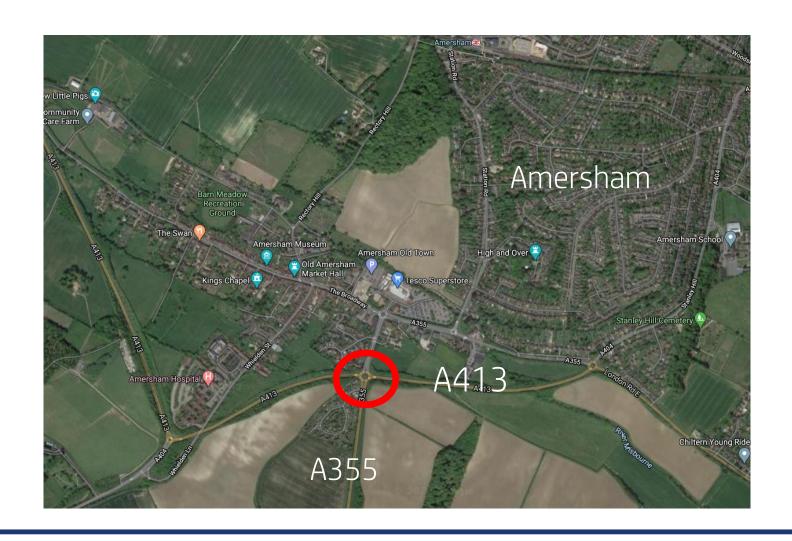
- White lining
- Signage upgrade
- Vegetation trim back
- All works within the highway boundary

Timeline and night working subject to final consents



	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	
Site Clearance							Days (9.30am - 3.00pm)
Signage							Days (9.30am - 3.00pm)
Lighting							Days (9.30am - 3.00pm)
Lining							Nights 9pm to 5am

Gore Hill: A413 and A355 roundabout



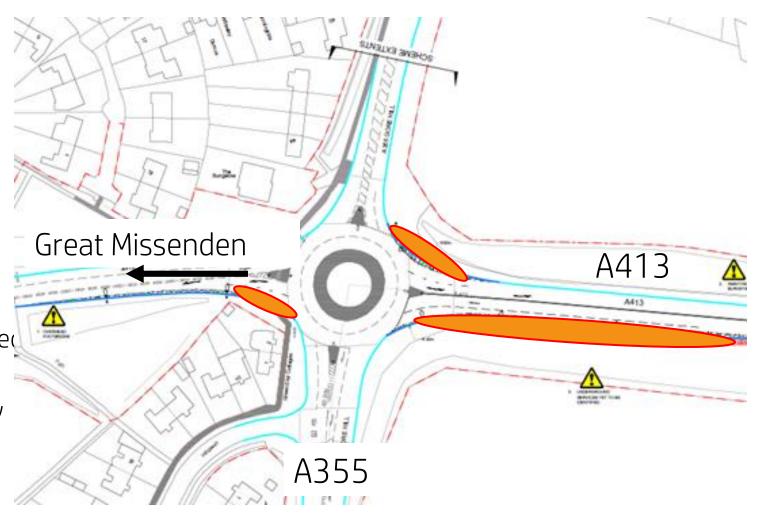
Gore Hill: A413 and A355 roundabout

Currently under review

- Widening at 3 locations
- Site clearance
- Drainage
- Signage
- White lining

Timelines and night time working subject to final consents and approvals

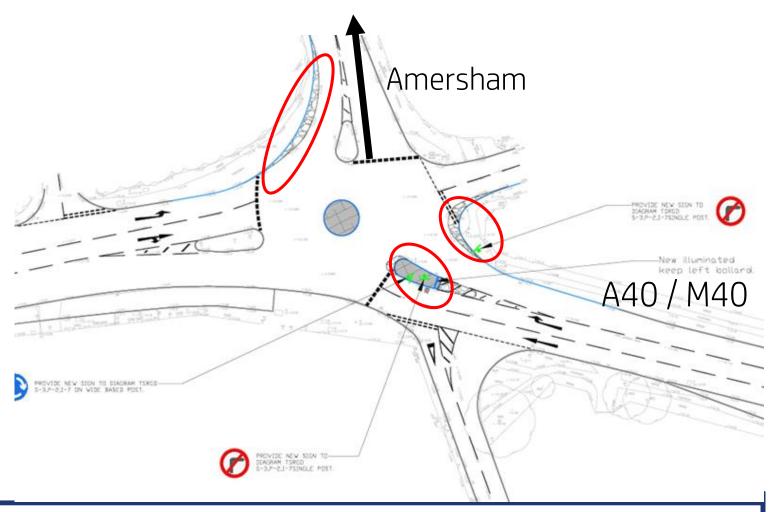
All works within the highway boundary



A355: A40 London Road junction Beaconsfield (Under review)

- Localised widening at 3 locations
- Signage
- White lining

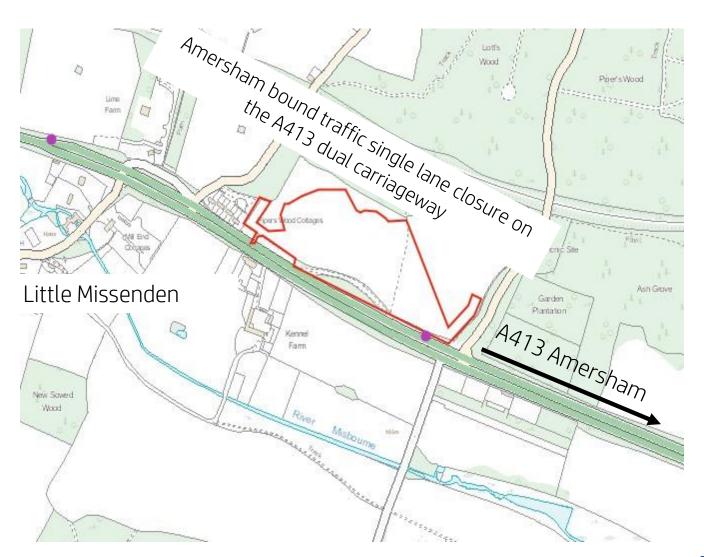
Timeline and night time working subject to final consents and approvals



Little Missenden Vent Shaft

- Archaeological investigation works
- Ground investigation / pumping test by ALIGN to then follow
- Site entrance / exit. Single lane closure on A413
 dual carriageway Amersham bound traffic
- Full time lane closure planned from start of March to mid summer 2020

Subject to final consents and approvals





ALIGN - Who are we? Why?















GRIMSHAW

LDĀDESIGN

- World class projects, to push innovation boundaries
- To pursue excellent
- To build Britain's future heritage





What are we building?











Key Community Objectives

- Ensuring the safety of the public and our workforce
- Reducing the impact on local highways as far as practicable
- Protecting the local environment ecology, water features, archaeology
- Integrity Openness and Transparency
- Protecting the Aquifer monitoring, grouting, turbidity plants and outages
- Reducing the visual and noise impact of our works as far as practicable

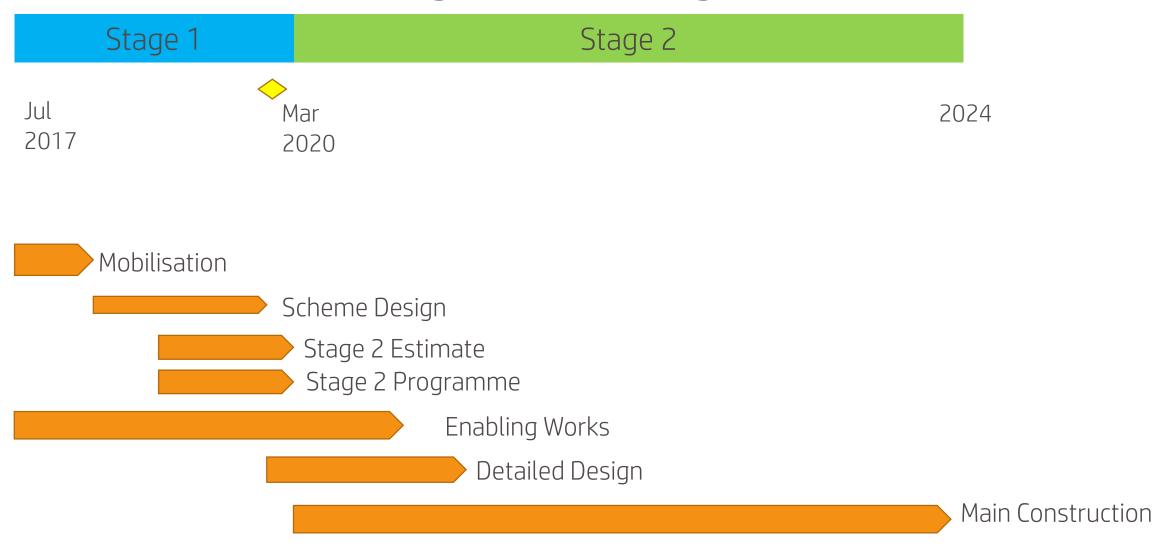




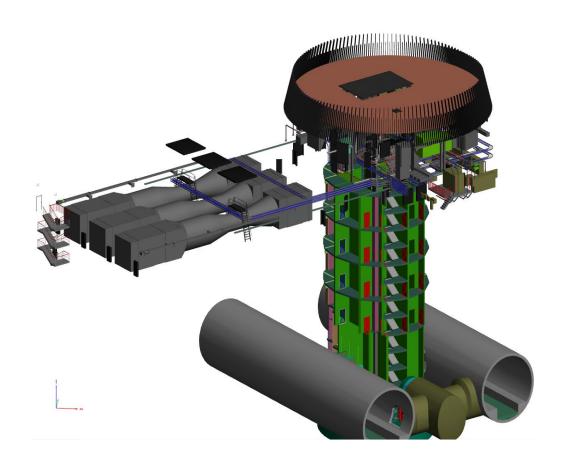


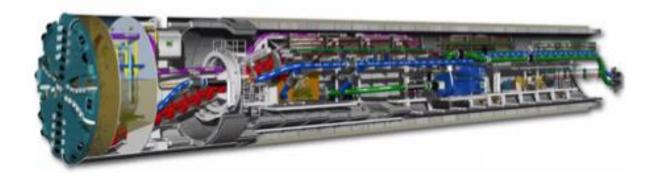
Programme

Main Civils Works – High Level Programme



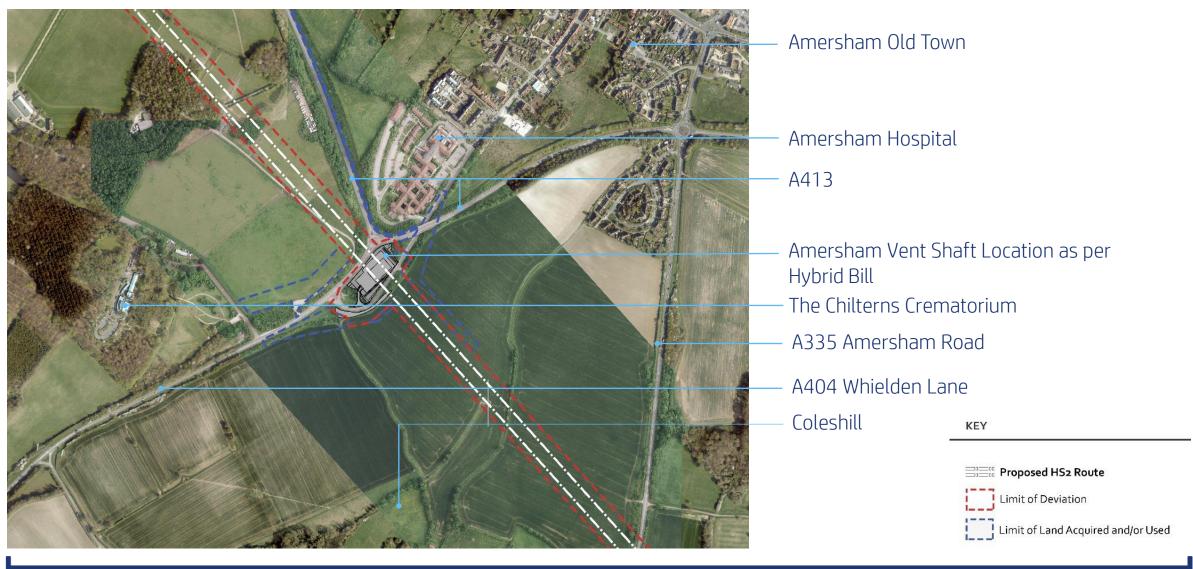
Construction of the Amersham shaft starts June 2020 Construction of the tunnel starts March 2021





Amersham Shaft

Amersham Location



Concept Layout





Stakeholder and Community Design Engagement

Planned Public Engagement in Bucks

Site	'Design Input EVENT'	Interdisciplinary Design Review	'You said We did' EVENT	Target Sch 17 Submit
WVS/South Portal	Completed CVV Events Summer 2019	April 2020	May 2020	July 2020
Chalfont St Peter	Completed October 2019	January 2020	April 2020	May 2020
Chalfont St Giles	27 February 2020	April 2020	July 2020	September 2020
Amersham	June 2020	July 2020	October 2020	December 2020
Little Missenden	June 2020	September 2020	October 2020	February 2021
Chesham Road	October 2020	November 2020	January 2021	April 2021
North Portal	October 2020	N/A	January 2021	April 2021







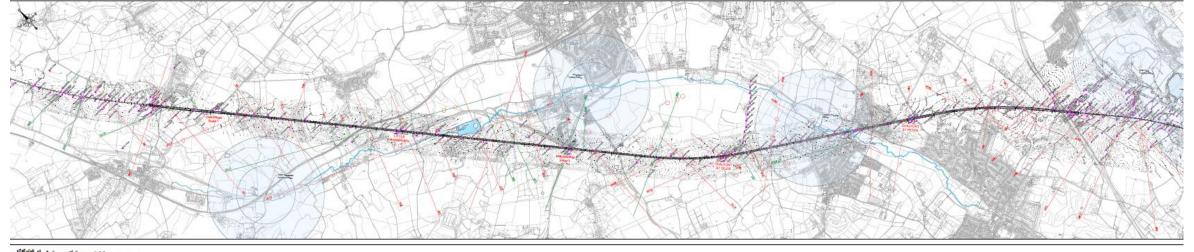


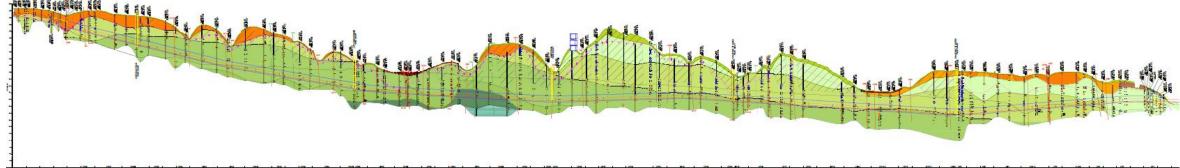


Protecting your water supply

Tunnel Route Ground Investigation

- Over 100 boreholes carried out by HS2 prior to main works contract award
- Over 100 more GI locations carried out Align

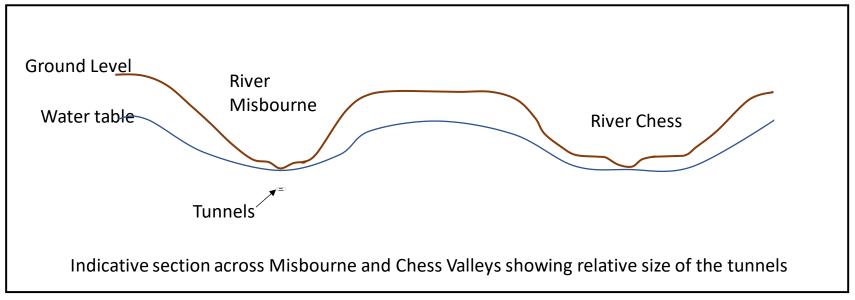


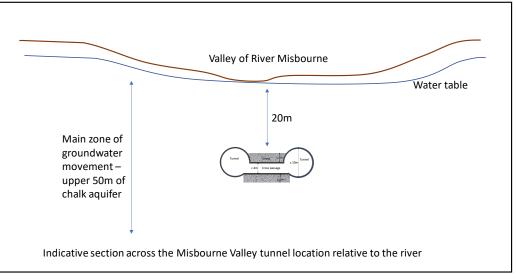


Variable Density Tunnel Boring Machine



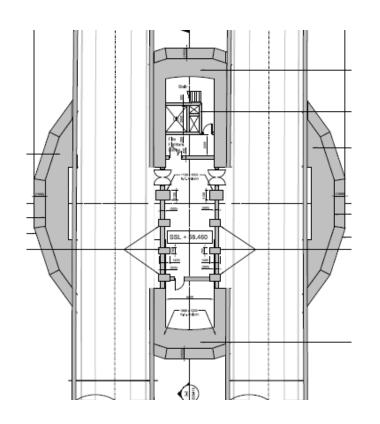
Tunnel & CP impact to water flow

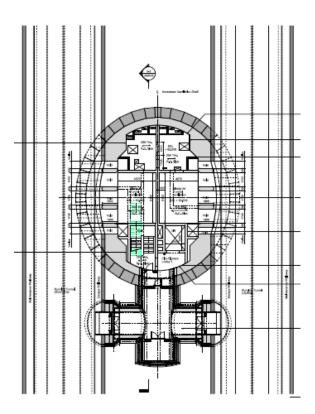




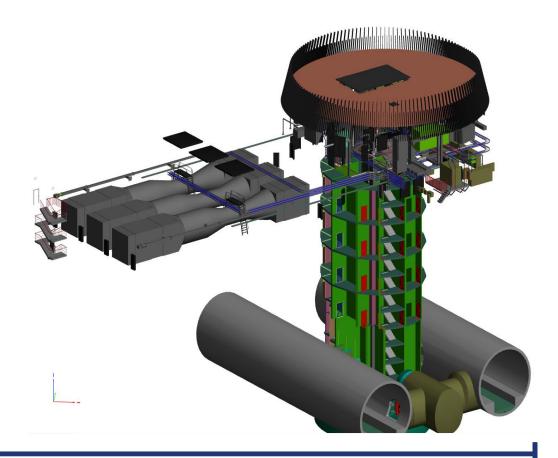
Community Impacts Traffic

Shaft Design Efficiencies

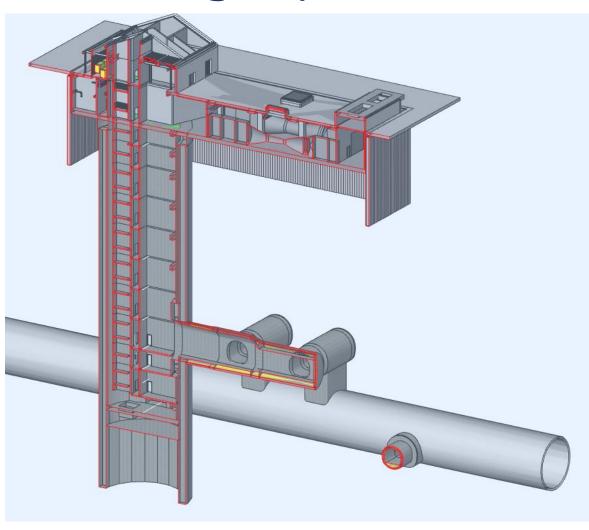




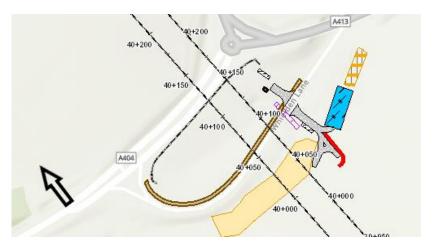
• Vent shafts: **32mØ to 18.13m**



Minimising impacts from Shafts and North Portal

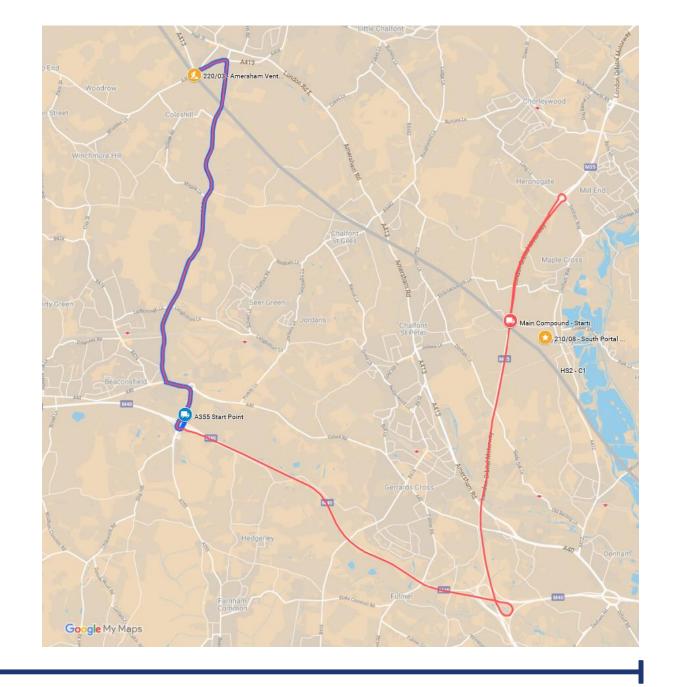


- Increases in the design efficiency of shafts correlating in reductions to required HGV movements
- Changed earthworks strategy to avoid HGV movement across the A404
- Coordinating with EK to minimise double-peaks where logistics overlap
- HGV booking system to manage daily peaks where practicable
- No HGV through Old Amersham

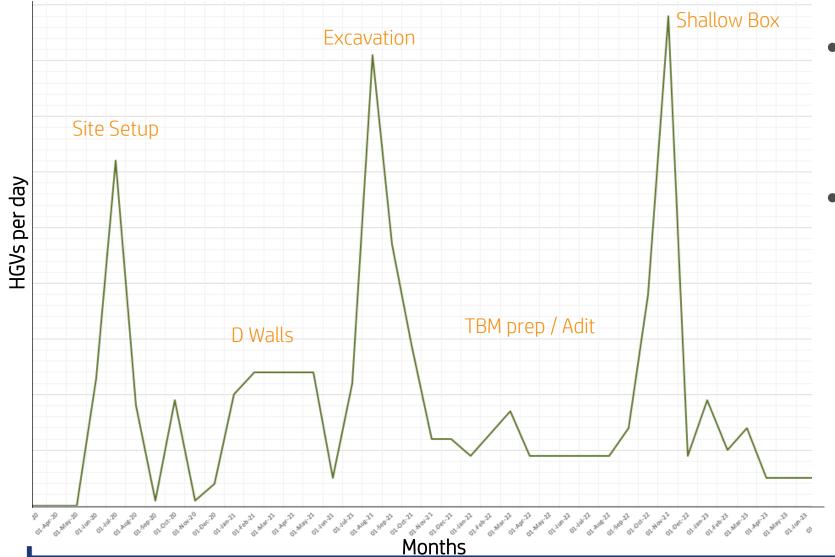


Amersham Construction Route

Main compound – M25 –
 M40 – A355 – A413 –
 A404



Typical Traffic Peaks from vent shaft construction



- Amersham Shaft Construction 48 months
- Busiest period 4 months 70–90 HGV per day

Thank you