



Why electrify?

- Responding to record demand plus the potential for more trains and faster journeys
- Improved links to job opportunities in Cardiff
- Part of wider regional strategies linking housing, employment and transport
- Encourage a modal shift from road to rail
- Reduction in typical CO² value
- Reduced industry costs





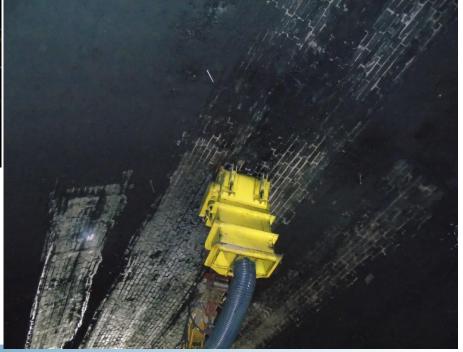
Severn Tunnel – Works so far



4 mile long cable removed



40 Tonnes soot removed



Severn Tunnel – Works so far

NetworkRail

OLE Drill Rig – Test Shift week 9



Overhead Conductor Rail
Test Section – Fitted Inside
Severn Tunnel

Severn Tunnel – Works so far

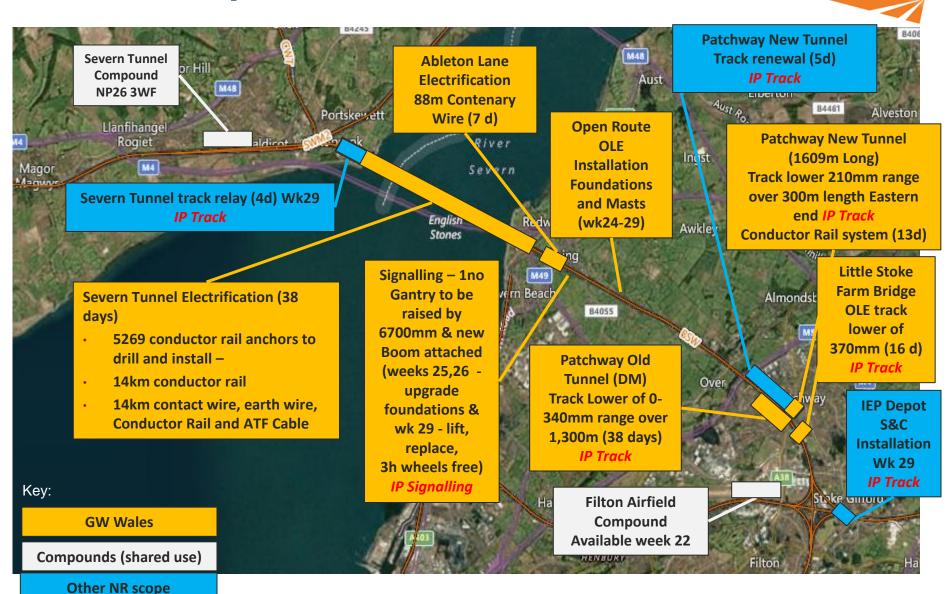




ATF Cleat Installation

Installed 4,000/6,389 to date

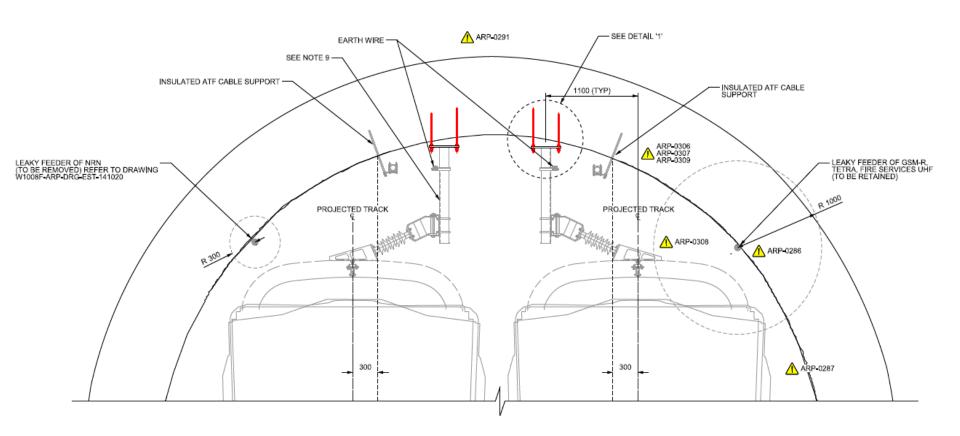
STAD - Scope of Works



NetworkRail

Severn Tunnel OLE installation





CONDUCTOR RAIL SUPPORT TYPICAL ARRANGEMENT

SCALE 1;25

What will Severn Tunnel Look Like?

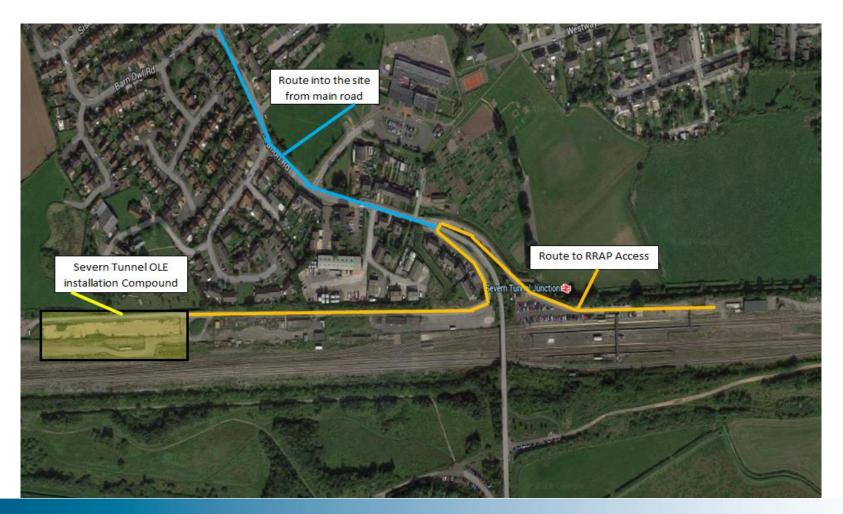




Blockade Logistics - Severn Tunnel Compound

Severn Tunnel Compound

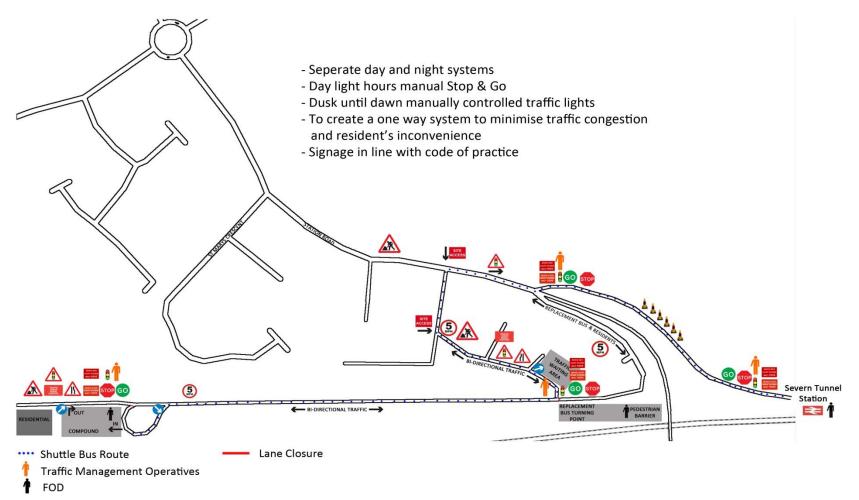
 Extension to Established compound at STJ, minibus crews to Severn Tunnel RRAP to minimise impact on station & residents



Traffic Management – Option 1- Preferred option

SEVERN TUNNEL RAILWAY STATION



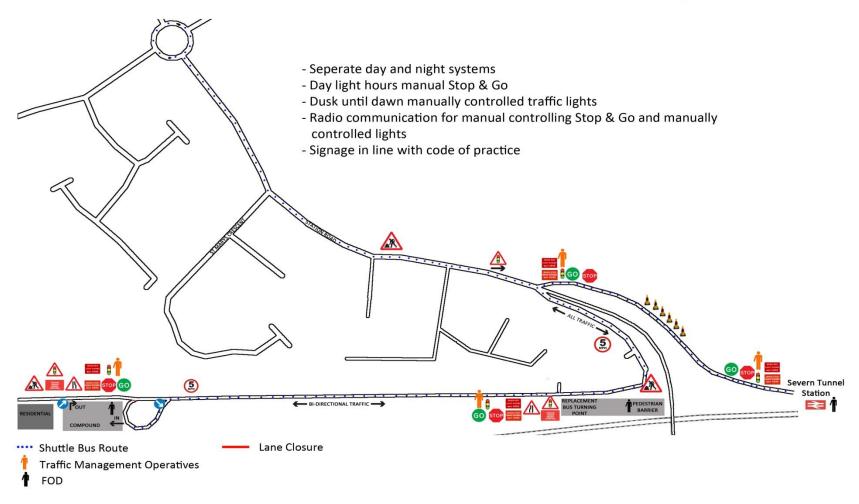


Traffic Management – Option 2



SEVERN TUNNEL RAILWAY STATION





Blockade Logistics

Shift management/welfare

Filton Airfield Compound

- Establish by Week 22 work started 19th June
- Circa 100 150 per shift for operations east of Severn Tunnel, 30 OLE open route, 70 Babcock / tunnels OLE, 50 Colas - IEP Depot (Week 29), Signal gantry gauge clearance – Numbers TBC



NetworkRail





Piling foundations - Monmouthshire



Piling in Monmouthshire has taken place over the past few months.

We will be piling in Monmouthshire on Saturday nights from 23rd July 2016.

We originally planned to install auger piles, however due to ground conditions being too hard, we will be installing driven piles.

Essential activity in electrification process

Hammer can cause additional noise - only used when absolutely necessary It can be a noisy process dependent on a number of factors

Electrification

Night time railway work

Steel tubes vibrated into the ground - sometimes hydraulic hammer is used



Predominantly a night-time activity - both weekdays and weekends.

are not running



Piling foundations – night time activity

- Circa. 2800nr foundations: 610mm and 765mm cylindrical hollow steel piles
- Spaced at 40 -70m intervals
- Installed by road/rail machines and specialist trains

Vegetation clearance – day and night time activity

- 6.6m on either side of the railway
- Vital if we are to provide a safe/reliable railway



Communications Strategy – Severn Tunnel Closure

Phase 1:

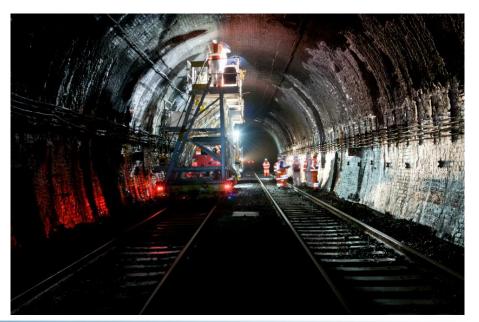
Stakeholder engagement and customer awareness raising (1 February – 20 June)

Phase 2:

Customer focus: Reinforcing messages/providing specific advice (20 June - 12 September)

Phase 3:

Showcasing work and celebrating success (12 September – 1 November)



Key activity



Phase 1: Stakeholder engagement and customer awareness raising (1 February – 20 June)

- Wrote to variety of key stakeholders
- Launched webpage with FAQ
- Press release BBC Wales coverage
- Handed out leaflets at Cardiff and Newport stations







The Severn Tunnel is due to close for nearly six weeks from September, causing disruption for rail users.

Key activity



Phase 2: Customer focus: Reinforcing messages/providing specific advice (20 June – 12 September)



- Posters up at stations
- Meet the Manager days led by GWR
- Issued press release with short film on soot removal
- Letters issued to businesses/tourist trade
- Public event for local community in Rogiet
- Upweighted advertising campaign
- Issue another short film and press release





Key activity



Phase 3: Showcasing work and celebrating success (12 September – 1 November)

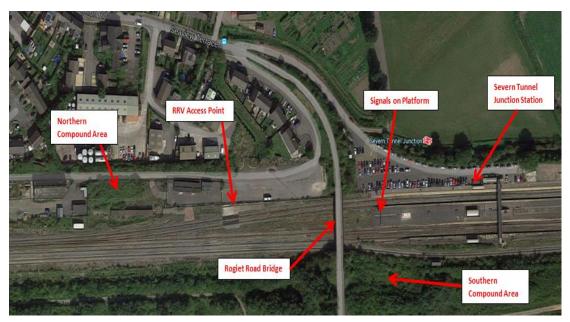
- Prepare 'key facts' leaflet for passengers
- Arrange visits to site for key stakeholders
- Weekly newsletter during closure
- Political visit to Sudbrook planned
- Press release issued on completion
- Thank you letters/poster rolled out





Rogiet Road Bridge

- Five span road bridge that supports an unclassified single carriageway road
- Highway ends just to south of bridge and becomes a Restricted Byway
- To be demolished at Christmas 2016 with reconstruction commencing thereafter

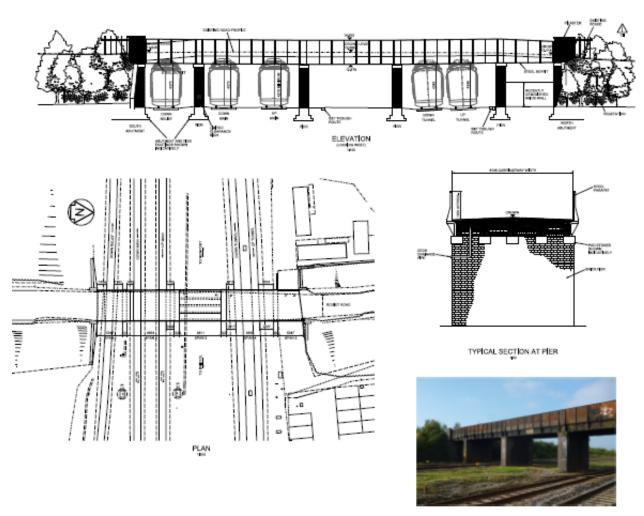




- Initial Road Closure for utilities surveys completed early July 2016
- Main road closure to commence 1st October (TBC) for up to 12 months.



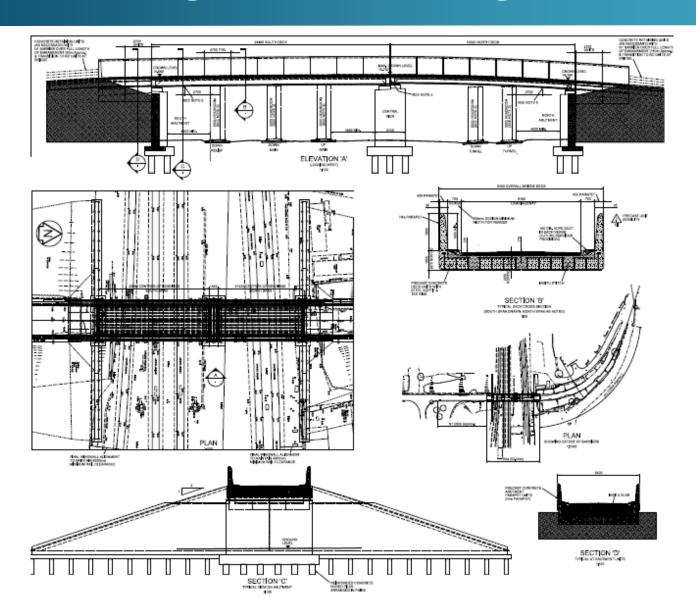
Rogiet Road Bridge



PHOTOGRAPH



Rogiet Road Bridge





Roberts /Church Road Bridge

- Four span road bridge that supports Church Road East, a single carriageway 30mph road
- Leads from the B4245 to the Church of St Mary.
- Serves the village of Undy (along with The Ramp)





 Reconstructed at Christmas 2015 and reopened June 2016



Roberts / Church Road Bridge





Parson's Footbridge

- Five span structure that was originally built as a single-span accommodation bridge.
- Demolition commenced early July 2016

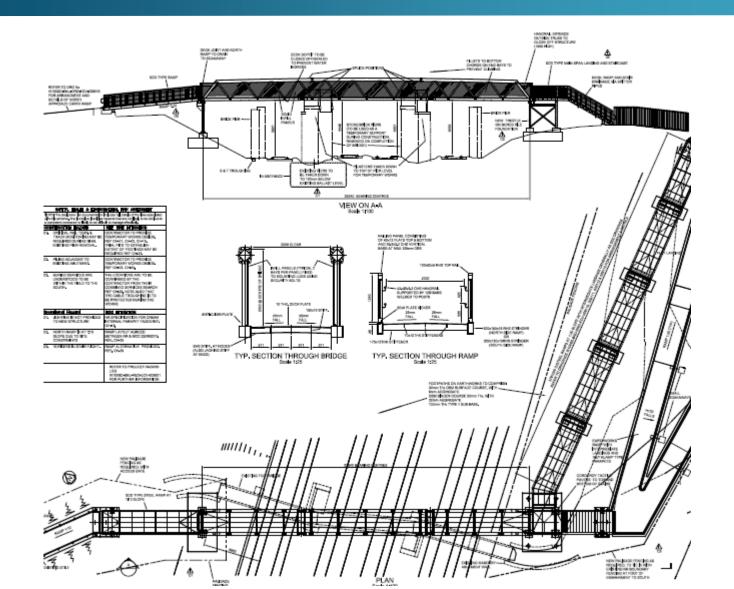








Parson's Footbridge





The Ramp / Hugget's Road Bridge

- Three span arch road bridge
- Carries an unclassified road between Magor and Redwick. Serves the village of Undy (along with Church Road)
- To be demolished at Christmas 2016 with reconstruction commencing thereafter

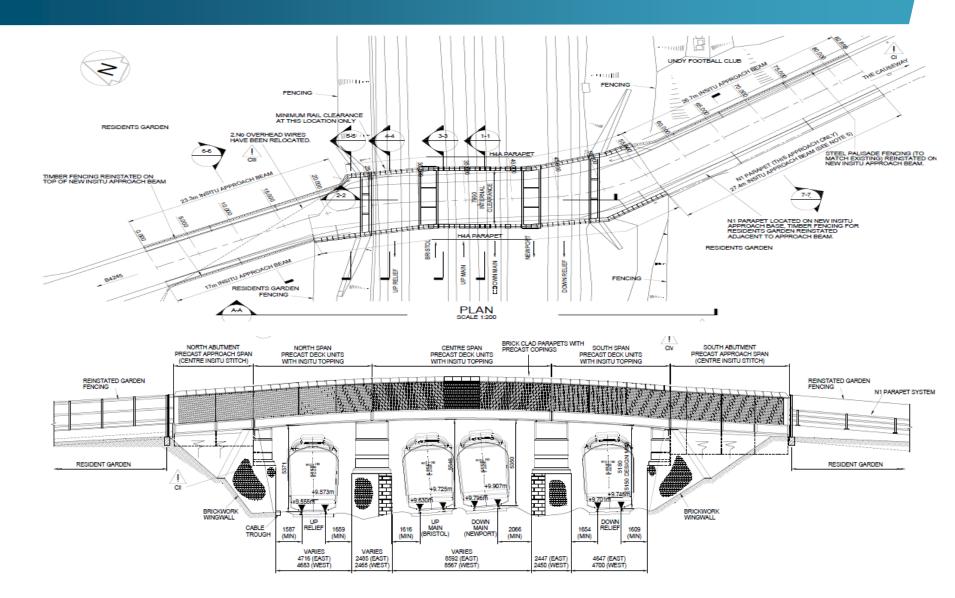




- Initial Road Closure for utilities surveys completed early July 2016
- Main road closure to commence 19th September for up to 12 months.

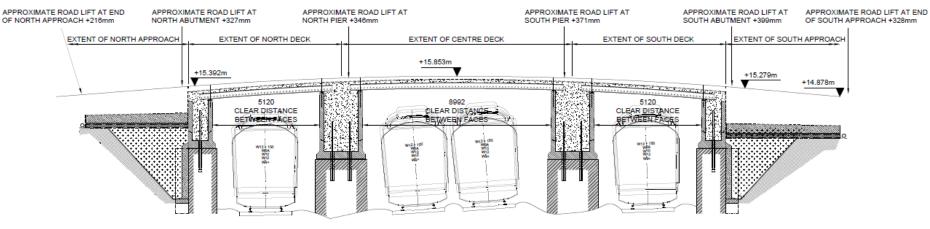


The Ramp / Hugget's Road Bridge

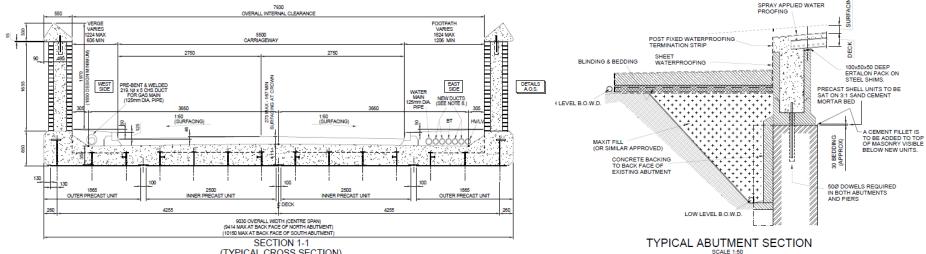




The Ramp / Hugget's Road Bridge







(TYPICAL CROSS SECTION)
(NOTE: OVERALL WIDTH OF DECK VARIES OVER NORTH & SOUTH SPAN)
SCALE 125



Undy Halt Footbridge

- Pedestrian footbridge that carries a Public Right of Way in Undy, over the railway
- Adjacent to Bridle Way and Railway underpass
- Rebuilt and opened to the public





Whitewall Footbridge

- Footbridge carries a pedestrian footpath over the railway in Magor, providing access between Whitewall and Newport Road
- Rebuilt and opened to the public







Magor Road Bridge

- Three-span road bridge carrying Redwick Road
- Pre-stressed, pre-cast concrete beam central span over the main lines and two concrete arches spanning the relief lines



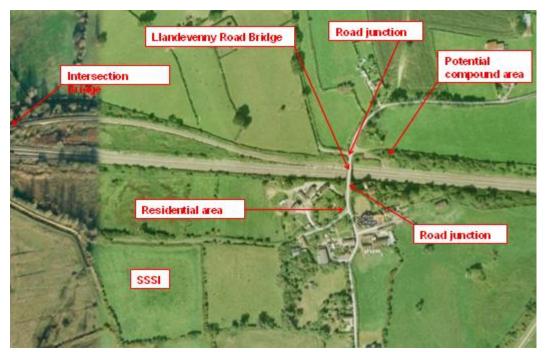


- Track lower relief lines
- · Main lines are already clear
- Late 2016



Llandavenny Road Bridge

- Three span overbridge
- Carries an unclassified public road in Llandavenny, Monmouthshire
- Single lane road leading to a farm, cottages and a garage. Properties can be accessed at other end of the road

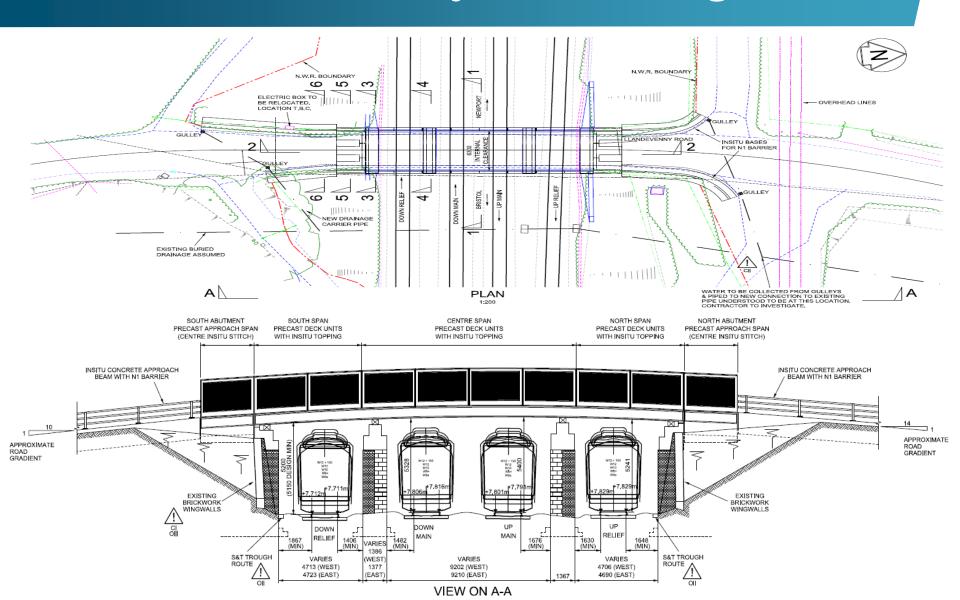




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Llandavenny Road Bridge





Llandavenny Road Bridge

