

M4 Prince of Wales Bridge Resurfacing

MP & MS Briefing

May 2024

M4 Prince of Wales Bridge



Why and why now

- First major resurfacing since the M4 bridge opened in 1996
- Needed to avoid unplanned closures - patch repairs to about 20% of the bridge
- It's now time to do major work for long term to sustainability of the bridge
 - Remove existing surfacing & waterproofing layer
 - Inspect the concrete bridge deck
 - Carry out concrete repairs to the bridge deck
 - Apply waterproofing system
 - Resurface (70mm thick)
- Work planned for the summer and early autumn
- Reduces risk of bad weather with M48 Severn Bridge closures for high winds

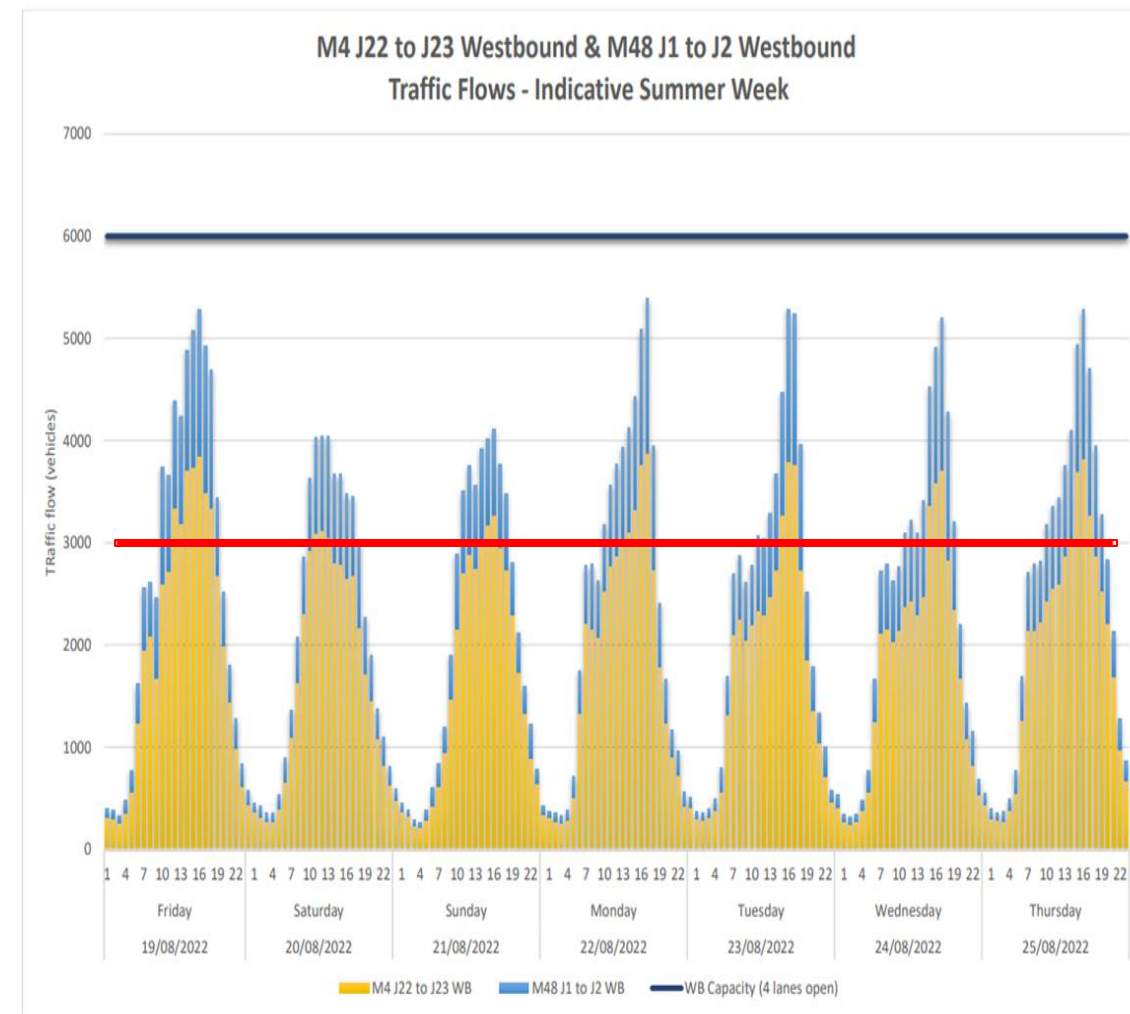
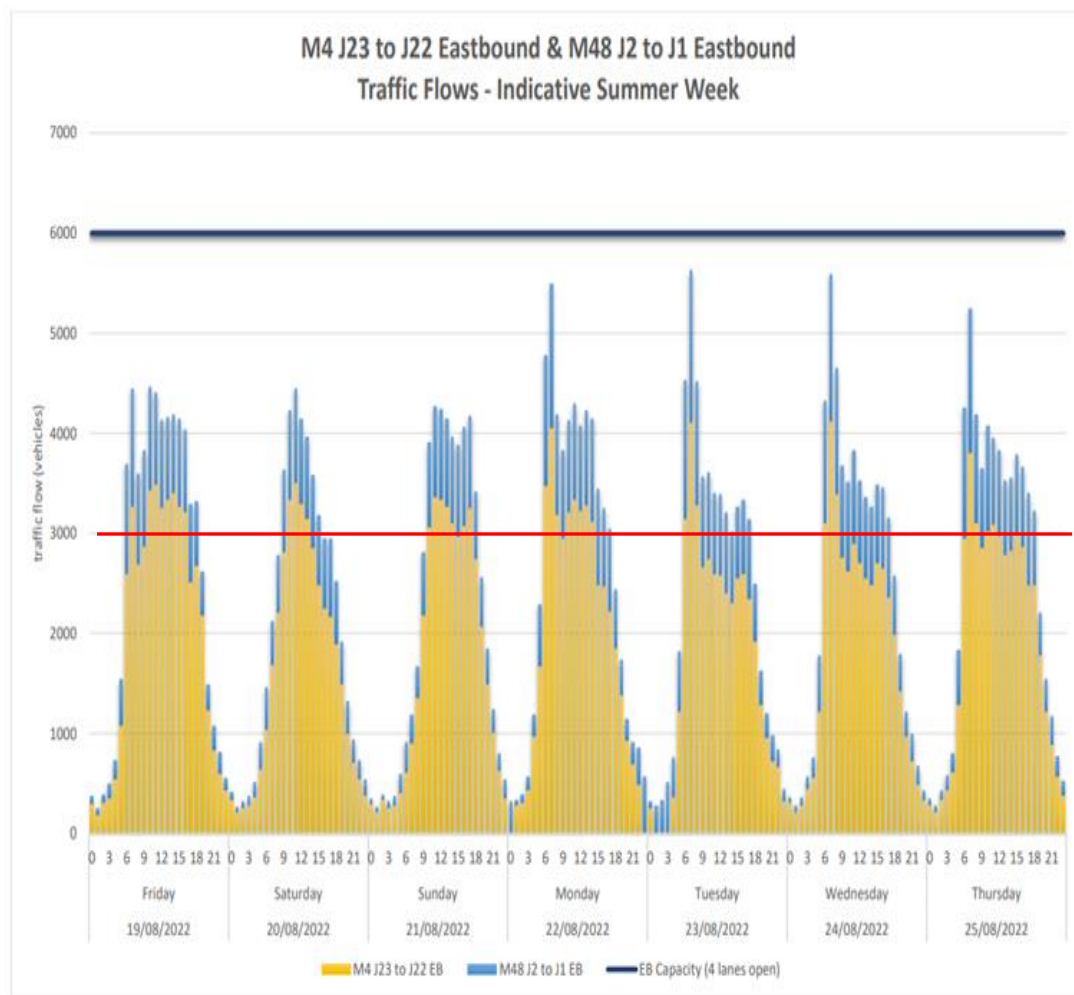


Traffic Impacts

- Planned work to minimise impact on road users
- 4 of 5 lanes open in both directions during the daytime
- Modelling shows 5 minutes delay but needs good use of all 4 lanes across M4 & M48 bridges
- Some overnight lane closures when traffic flows are lower
- Agreed 4-month programme with some extra costs but better than 8 weeks with very significant traffic delays from daytime bridge closures
- Working with Welsh Government and South Wales Trunk Road Agent to plan works and reduce impact on local events



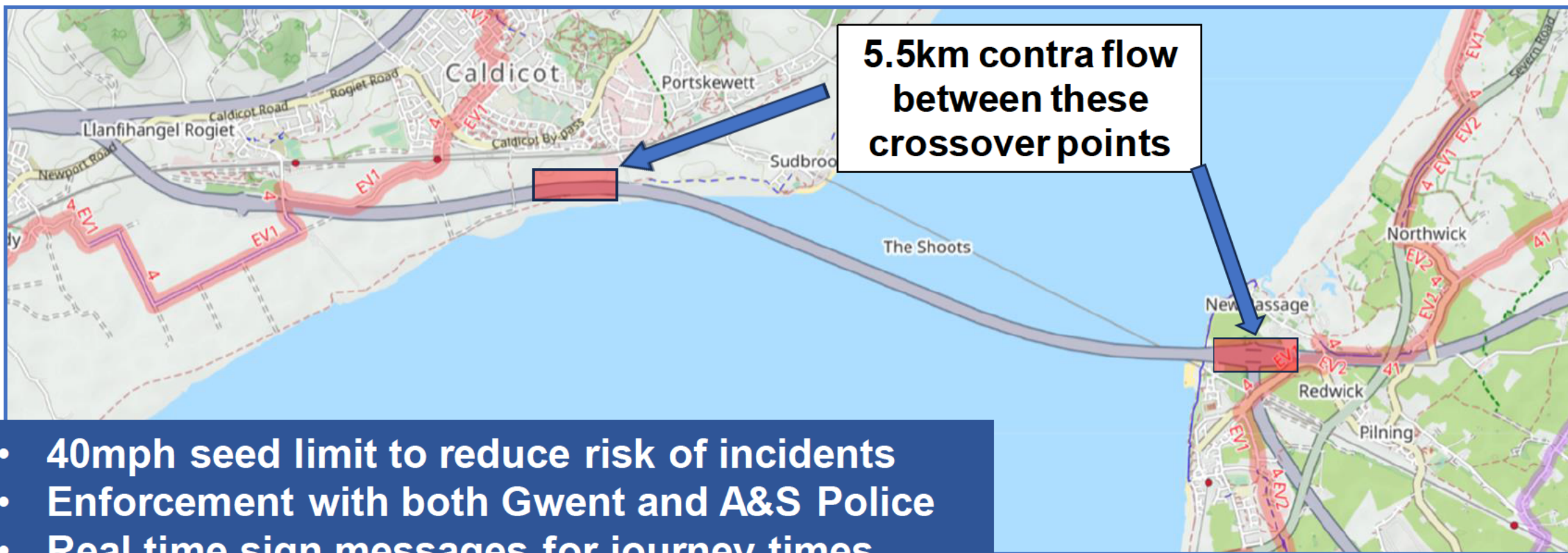
Traffic flows on M4 & M48



— Black line - 6000 capacity with both bridges operating

— Red line - 3000 capacity if the M48 Severn Bridge is closed

How we will manage the traffic



- 40mph speed limit to reduce risk of incidents
- Enforcement with both Gwent and A&S Police
- Real time sign messages for journey times
- CCTV monitoring
- Free recovery - both directions

Impact on Summer Events in Wales

Principality Stadium		
P!NK	Tue 11 June - 5pm	Not affected - work planned for after events
Taylor Swift	Tue 18 June - 5pm	
Foo Fighters	Tue 25 June - 7pm	
Monster Trucks	Sat 6 July - 10am	
Billy Joel	Fri 9 August - 4pm	Limited impact from works 4pm start is before peak flows
Speedway	Sat 17 August - 5pm	Limited impact from works
Chepstow Races		
Shania Twain	Fri 5 July	Not affected - work planned for after events
Tom Jones	Sat 6 July	
Hozier	Tue 9 July	
National Eisteddfod		
Rhondda	3-10 August	Limited impact from work

Telling our customers

- Significant communications programme
- Building on lessons from M25 closure
- Communications include
 - MP & MS briefings
 - Stakeholders - councils, venues, businesses,
 - Postcard drop to wide area
 - Media briefings
 - Social media updates
 - Dedicated webpage with regular updates
 - <https://nationalhighways.co.uk/our-roads/south-west/m4-prince-of-wales-bridge-resurfacing>



An aerial photograph of a large cable-stayed bridge under construction. The bridge spans a wide river. Two tall concrete pylons are visible, with numerous stay cables fanning out to support the bridge deck. A yellow construction crane stands on a barge or platform near the bridge. In the foreground, a large concrete bridge pier is being worked on, with a green and yellow gantry crane positioned over it. The background shows a town and rolling hills under a cloudy sky.

Thank you for your time.

Any questions?