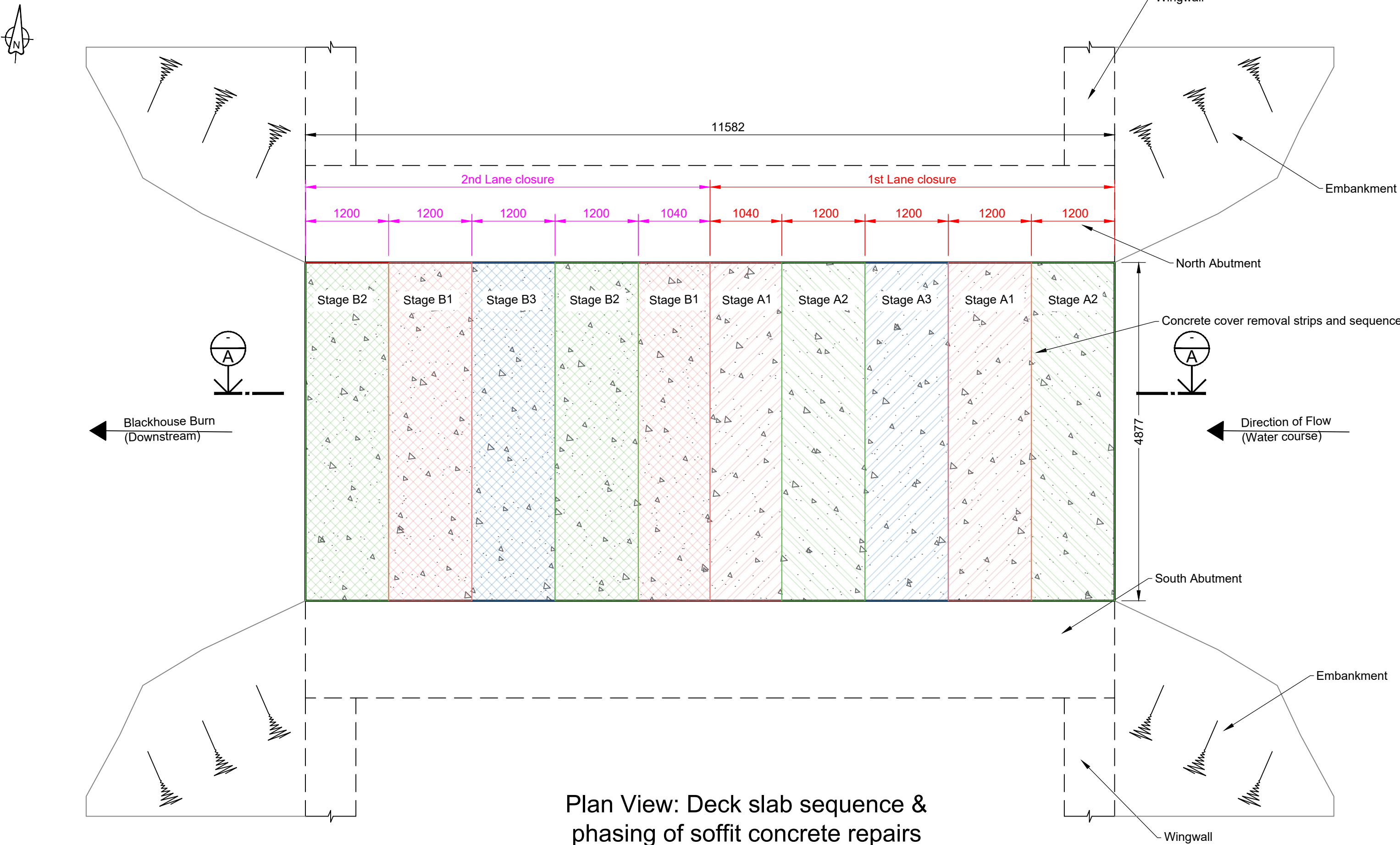
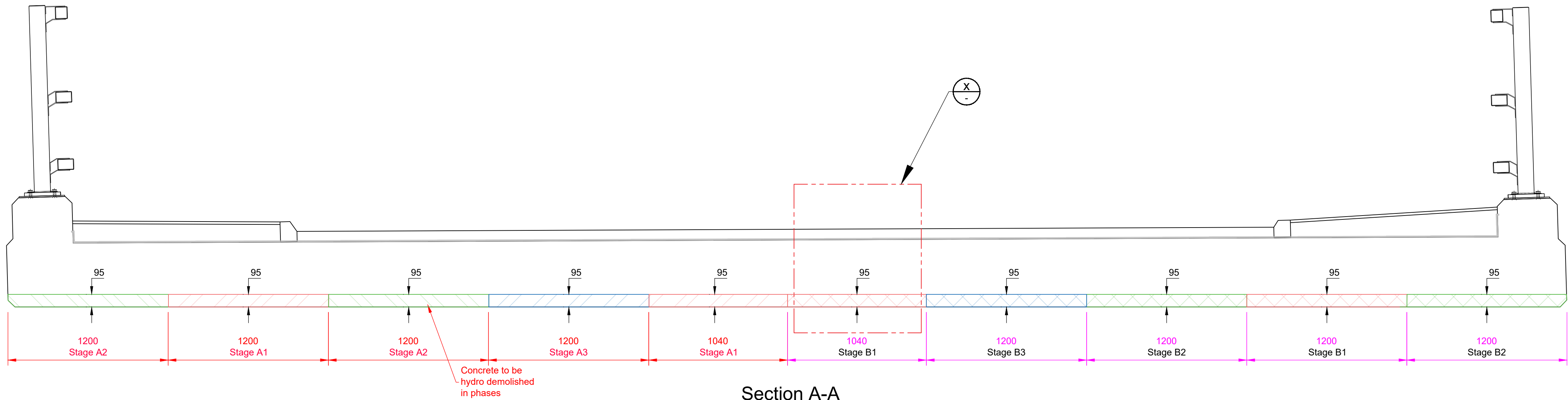




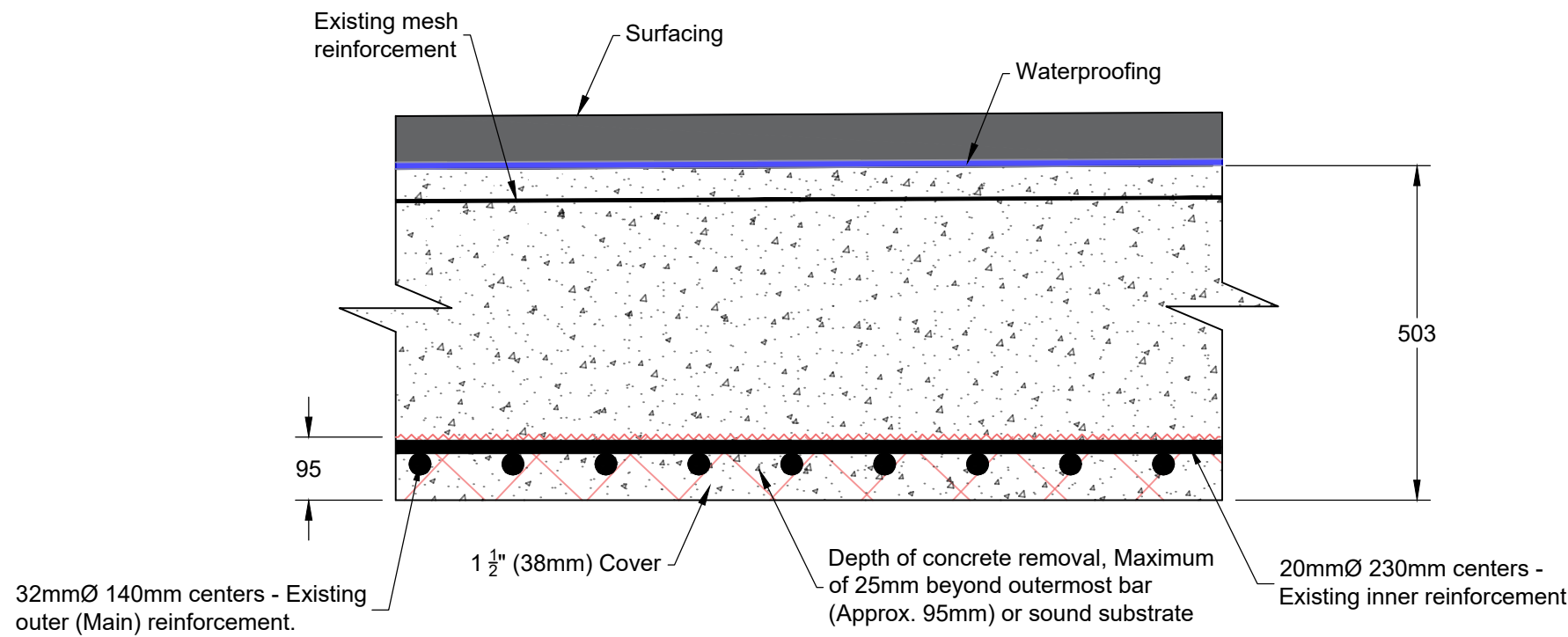
Plan View: Deck slab sequence & phasing of soffit concrete repairs

Scale 1:50



Section A-A

Scale 1:50



Detail X

Scale 1:10

Concrete removal and reinstatement sequence:

1. Install Temporary Traffic Management (TTM) for single file. Removal to start from the edge of closed lane.
2. Each area is approximately 1.2 m wide to be marked.
3. Stage 1:
 - 3.1. Remove existing concrete in area A1 to the specified depth & width.
 - 3.2. Clear working area off all construction waste prior to the next stage commencing.
 - 3.3. Install new strengthening longitudinal bars diameter 20mm and lap onto existing exposed longitudinal bars along the full length.
 - 3.4. Attach 39 No. sacrificial 36mm anodes spaced at 0.42m in main bar direction and 0.46m along distribution bars.
 - 3.5. Apply appropriate concrete binding argment to the newly exposed concrete substrate.
 - 3.6. Apply spray applied concrete grade C40/50 and allow time to cure.
 - 3.7. Inspect and sign off before removing to next bay.
4. Stage 2:
 - 4.1. Remove existing concrete in area A1 to the specified depth & width.
 - 4.2. Clear working area off all construction waste prior to the next stage commencing.
 - 4.3. Install new strengthening longitudinal bars diameter 20mm and lap onto existing exposed longitudinal bars along the full length.
 - 4.4. Attach 39 No. sacrificial 36mm anodes spaced at 0.42m in main bar direction and 0.46m along distribution bars. Apply appropriate concrete binding argment to the newly exposed concrete substrate.
 - 4.5. Apply spray applied concrete grade C40/50 and allow time to cure.
 - 4.6. Inspect and sign off before removing to next bay.
5. Stage 3:
 - 5.1. Remove existing concrete in area A1 to the specified depth & width.
 - 5.2. Clear working area off all construction waste prior to the next stage commencing.
 - 5.3. Install new strengthening longitudinal bars diameter 20mm and lap onto existing exposed longitudinal bars along the full length.
 - 5.4. Attach 39 No. sacrificial 36mm anodes spaced at 0.42m in main bar direction and 0.46m along distribution bars.
 - 5.5. Apply appropriate concrete binding argment to the newly exposed concrete substrate.
 - 5.6. Apply spray applied concrete grade C40/50 and allow time to cure.
 - 5.7. Inspect and sign off before removing to next bay.
6. Transfer TTM to other lane and carry out the items 3-5 similarly to other side of the deck.

Assumptions:

Concrete removal & replacement

1. All concrete repairs shall be 25mm behind the longitudinal reinforcement.
2. Any concrete adjacent to repair areas should be mechanically roughened prior to fresh concrete being poured. Concrete surface to be primed prior to spray applying the concrete. Refer to Specification Appendix 57/1 for details.
3. All concrete shall be allowed to cure to a minimum of 32N/mm² prior to starting next phase in the sequence.
4. **The compressive strength of the repair concrete shall be confirmed by tests on cubes cured under conditions representative of site conditions.**

Vehicles

1. No vehicle should be on any area above exposed reinforcement.
2. Concrete wagons are not permitted on the structure at any time during the concrete repair works.
3. Any additional vehicle that the contractor wishes to use on the bridge during the repairs should be passed onto the designer to assess if this is allowed on the structure. This should include the maximum axle loads and axle spacing of the additional vehicle.



RESIDUAL DESIGN HAZARDS

(The following information has been collected from Preconstruction Information and the Amey CDM Hazard Management Process.)

1. Public Utilities - indicative locations of both underground and overground services are shown within drawings and PU records are included in PCIP.
2. Working above or adjacent to a watercourse.
3. Working adjacent to a live carriageway.
4. Working adjacent to a residential house.
5. Working under restricted headroom and poor lighting environment.

NOTES

1. All dimensions are in millimetres unless otherwise stated.
2. Do not scale from this drawing.
3. Structure to prevent any materials falling into the watercourse below.
4. All waste must be transported by a suitably licensed contractor accompanied by a waste transfer note.
5. Existing concrete strength: 45N/mm².
6. Existing cover at all faces to existing reinforcement is 40mm.
7. This drawing is to be printed in colour and read in conjunction with 22NSW/1201/027/A78-90/5700/02

KEY

- Concrete to be removed for repair
- Concrete surface to be repaired in stage A1 under 1st lane closure
- Concrete surface to be repaired in stage A2 under 1st lane closure
- Concrete surface to be repaired in stage A3 under 1st lane closure
- Concrete surface to be repaired in stage B1 under 2nd lane closure
- Concrete surface to be repaired in stage B2 under 2nd lane closure
- Concrete surface to be repaired in stage B3 under 2nd lane closure

Direction of flow

P01	First Issue	TB	NG	AN	29/08/24
Rev	Revision details	Drwn	Chkd	Appd	Date

Designed:	T.Boyapati	Date:	05/07/2024
Drawn:	T.Boyapati	Date:	26/07/2024
Snr Tech Check:	.	Date:	.
Checked:	N.Gharavi	Date:	21/08/2024
Approved:	A.Njie	Date:	29/08/2024

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Client



Project Name

A78 90 St Fillans Deck Soffit Concrete Repairs

Drawing Title

Series 5700: Concrete Repairs

Soffit cover removal & repair sequence

Original Drawing Size : A1	Scale : As shown
Dimensions : mm	

Drawing Status	Suitability
Suitable for Tender	D2

Drawing No	Rev
22/NSW/1201/027/A78-90/5700/01	P01