

				Conyngham Road				
				Conyngham Road				
				Intervention		Assessment		
Baseline intervention (not subject to options)				-		-		
Options Level 1 (PC2)	Option 0: Do Nothing	Engineering	Feasibility	Constructability	Leave as is	●	Fail	The vertical clearance between rail and bridge soffit is as low as 4.2m. This vertical clearance will not provide enough clearance for the installation of the OHLE equipment
				Geometrical fitness for intervention		●		
			Requirements	Safety		●		
			OHLE to be installed.			●		
			Electrical clearance for electrification			●		
			Safe rolling stock passing clearances			●		
			Compliant road design			●		
			Track alignment and drainage (standards)			●		
	Economy		Investment guidelines and programme for DART+			●		
	Environment					●		
	Option 1: Do Minimum	Engineering	Feasibility	Constructability	Track lowering only. A track lowering of 370mm is required to fit the OHLE equipment (resulting vertical clearance of 4.566m). The OHLE equipment would be installed between the bridge beams. Derogation for OHLE is required due to reduced contact wire height.	●	Pass	Risk of not being feasible, when GI available
			Geometrical fitness for intervention			●		
		Requirements	Safety			●		
			OHLE to be installed.			●		
			Electrical clearance for electrification			●		
			Safe rolling stock passing clearances			●		
			Compliant road design			●		
			Track alignment and drainage (standards)			●		
	Economy		Investment guidelines and programme for DART+			●		
	Environment					●		No significant environmental issues
	Option 2	Engineering	Feasibility	Constructability	Design solution that combines Bridge Reconstruction, Road level increase and Track Lowering Derogation for OHLE is required	●	Pass	
			Geometrical fitness for intervention			●		
		Requirements	Safety			●		
			OHLE to be installed.			●		
			Electrical clearance for electrification			●		
			Safe rolling stock passing clearances			●		
			Compliant road design			●		
			Track alignment and drainage (standards)			●		
	Economy		Investment guidelines and programme for DART+			●		
	Environment					●		No significant environmental issues

				Phoenix Park Tunnel				
				Phoenix Park Tunnel				
	Requirements			-OHLE to be installed. -Electrical clearance for electrification -Safe rolling stock passing clearances -Track alignment and drainage requirements (standards)				
				Intervention		Assessment		
Baseline intervention (not subject to options)				-	-	-		
Options Level 1 (PC 2)	Option 0: Do Nothing	Engineering	Feasibility Constructability Geometrical fitness for intervention Safety	OHLE to be installed. Electrical clearance for electrification Safe rolling stock passing clearances Track alignment and drainage (standards) Investment guidelines and programme for DART+	Leave as is		Fail	Will not provide compliance lateral clearances. Track alignment is not compliant.
			Requirements Economy Environment					
Options Level 1 (PC 2)	Option 1: Do Minimum	Engineering	Feasibility Constructability Geometrical fitness for intervention Safety	OHLE to be installed. Electrical clearance for electrification Safe rolling stock passing clearances Track alignment and drainage (standards) Investment guidelines and programme for DART+	<i>New track alignment and slab track, with OHLE. Tunnel may require improvement works</i>		Pass	No significant environmental issues
			Requirements Economy Environment					

Option variations	Option 1	Option 1 (Per Way Option 1)	Maximum track lowering, it may be unfeasible subject to ground investigations
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