

				Le Famu-Kylemore			
				Le Famu Road Bridge (OBC7)			
Requirements				Four tracks OHLIE in northern tracks Electrical clearance for electrification Keep current functionality of roads Bridge Design Requirements (Standards)			
Baseline intervention (not subject to options)				Intervention		Assessment	
Options Level 1 (PC 1)	Option 0: Do Nothing	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Leave As Is		Fail Four Tracking Project Requirement not achieved. Electrification Project Requirement not achieved. Overhead Electrical Clearance Requirement not achieved.
		Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.
	Option 1: Do Minimum	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Four Tracking Electrification No Pave or Structural Intervention		Fail Four Tracking Project Requirement not achieved. Electrification Project Requirement not achieved. Overhead Electrical Clearance Requirement not achieved.
		Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.
	Option 2	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Four Tracking Electrification Additional Tracks in opening south of side of Existing Structure (i.e. through wingwalk).		Fail Four Tracking Project Requirement not achieved. Electrification Project Requirement not achieved. Overhead Electrical Clearance Requirement not achieved.
		Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.
	Option 3	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Four Tracking Electrification Bridge Reconstruction Road Levels Increase ONLY to absorb vertical clearance		Fail This Option would require a minimum road level increase of 1.1m. This road level increase at OBC7 would require extensive works to the junctions on the north and south side. The vertical profile of the road would not be in accordance with design standards. The vertical gradients would not be in accordance with the National Cycle Manual.
		Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.
	Option 4	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Four Tracking Electrification Bridge Reconstruction Track Lowering OHLIE to absorb vertical clearance		Fail This Option would require a minimum track lowering of 1.1m. This level of track lowering is not feasible at Lefanu Road.
		Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.
Option 5	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Four Tracking Electrification Bridge Reconstruction Road Levels Increased to a Point Above Which Road Departures Would be Required Track Lowering also required.		Pass This Option would require a minimum track lowering of 0.2m combined with a minimum road level increase of 1.0m .	
	Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.	
Option 6	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Four Tracking Electrification Bridge Reconstruction Vertical clearance absorbed by Increased Road Levels (SR) and Track Lowering (SR)		Pass This Option would require a minimum track lowering and road raising of 0.6m.	
	Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.	
Option 7	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Four Tracking Electrification Bridge Reconstruction Vertical clearance absorbed by Increased Road Levels and Track Lowering (Options considered including a SRTD option) INCLUDING CONCEPT DESIGN		Fail This Option would require a minimum track lowering of 1.4m and a minimum road level increase of 0.8m. This level of track lowering is not feasible at Lefanu Road.	
	Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.	
Option 8	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Four Tracking Electrification Bridge Reconstruction Remove Road Bridge and Replace with Pedestrian Bridge / Pedestrian & Cycle Bridge		Fail In this Option the road bridge would not be reinstated. The existing road functionality would not be maintained. Pedestrian and cyclist provision only.	
	Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.	
Option 9	Engineering	Feasibility	Constructability Geometrical fitness for intervention Safety Four tracking Park West-Heuston Electrification of DART+ tracks Vertical electrical clearance in structures Bridge Design Requirements (Standards) Keep current functionality of roads Investment guidelines and programme for DART+	Four Tracking Electrification Bridge Reconstruction (Draw)		Fail This Option would require a minimum track lowering and road raising of 1.73m. This level of track lowering is not feasible at Lefanu Road.	
	Economy Environment	Requirements				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International significance.	