



	DART+ WEST - MCA Stage 1									
			T	Porterstowi	n Level Crossing Assess	ment				
	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Do Nothing	Do Minimum	Option 1			
					Leave the current level crossings in place.	Closure of the existing crossings with no alternative provided. All traffic would be diverted to alternative routes around the crossing location.	Pedestrian / Cycle Links parallel to canal and rail to ramped access to Diswellstown Viaduct			
					Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative disadvantage over other options			
		1.1	Construction and Land Cost	Assessment of cost of construction of option, land costs and temporary works	The level crossing is currently manned. The ongoing cost associated with this control mechanism on the railway is significant.	Cost of removing crossing is low in comparison to provision of road crossing.	This scheme is similar to other bridge options but it includes an additional 600m of 5.0m wide cycleway and the land acquisition costs associated with it.			
					Significant comparative disadvantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options			
1	Economy	1.2	1.2 Long Term Maintenance costs	Ongoing annual maintenance costs associated with varied options	The do-nothing scenario would maintain the existing maintenance costs of the level crossing.	The closure of the level crossing would remove the maintenance requirement of the level crossing.	The maintenance costs are associated with regular inspection and maintenance of the cycleway and the ramp structures			
			1.3 Traffic Functionality /economic benefit		Comparable to other options	Comparable to other options	Comparable to other options			
		1.3			Existing connectivity maintained, albeit with increased disruption from increased train frequencies. Economic disbenefit to rail.	Displacement of traffic onto alternative routes; increase in journey times for local residents, New Link road already serves for commuter traffic.	Displacement of traffic onto alternative routes; increase in journey times for local residents, New Link road already serves for commuter traffic.			
					Some comparative advantage over other options	Some comparative disadvantage over other options	Some comparative disadvantage over other options			
		2.1	Transport Integration	Impact on scope for and ease of interchange between modes. Impact on the operation of other transport services both during construction and in operation. New interchange nodes and facilities; Reduced walking and wait times associated with interchanges. Modal shift figures during construction and operations. Changes to journey times to transport nodes.	Existing connectivity maintained, albeit with increased disruption from increased train frequencies. There is no cycle route proposed on Porterstown Road in the GDA Cycle Network Plan.	Reduction in local permeability. The provision of the Porterstown Viaduct has reduced the utility of Porterstown Road for anything more than local traffic.	Some indirect access provided for pedestrians and cyclists, but less preferable than other options. No access provided for other transport modes.			
					Some comparative advantage over other options	Some comparative disadvantage over other options	Some comparative disadvantage over other options			
2	Integration	2.2	Land Use Integration	Impact on land use strategies and local plans. Assessment of support for land use factors local land use and planning. Inclusion of project in relevant local planning documents.	This option supports local planning policy map based "Objective 137: Preserve the existing pedestrian and vehicular right of way at the level crossing at Porterstown". There is also a Specific Objective on Porterstown Road running north south for an "Indicative Cycle/Pedestrian Route" that would be impacted. However, it is considered that there would be modifications required to the current road widths and narrow bridge over the canal should this objective be realised as it could not be safely implemented in it's current form.		The LAP includes the potential development of a 'Future train			





			DART	F+ WEST - MCA Stage 1		
			Porterstowr	n Level Crossing Assess	ment	
Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Do Nothing	Do Minimum	Option 1
		Geographical Integration	Alternative level crossing options are mostly neutral in respect of Geographical Integration due to localised nature of the level	Comparable to other options	Comparable to other options	Comparable to other options
	2.3		crossings. As a consequence all options are rated comparable to one another.	No impact on Geographical Integration	No impact on Geographical Integration	No impact on Geographical Integration
				Some comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative advantage over other options
	2.4	Other Government Policy Integration	Integration with the other Government policy such as the NPF and RSES.	higher level national and regional planning policies regarding the DART Expansion programme (NPF- (NS04), RSES & GDA Transport Strategy).	This option would support the delivery of the DART Expansion programme in the higher level national and regional planning policies however it would impact on Smarter Travel policy.	This option would support the delivery of the DART Expansion programme in the higher level national and regional planning policy documents.
			Estimated number of sensitive properties within 100m of the	Some comparative disadvantage over other options	Some comparative advantage over other options	Some comparative advantage over other options
	3.1 Noise and Vibration	Noise and Vibration	works. Options closer to more sensitive locations will have an increased risk of generating a noise impact. However, qualative criteria are also used where necessary to differentiate between the options.	Retains vehicular traffic which will impact the low number of sensitive receptors in proximity.	Removes vehicular traffic and minimal construction phase.	9 dwelling within 100m. Note that only construction stage impacts expected as this is a pedestrian crossing.
	3.2	Air Quality and Climate	Estimated number of number of receptors within 50m reviewed as part of appriasal. Options closer to more sensitive locations will have an increased risk of changes in air quality during construction or operational phases. However, qualative criteria are also used where necessary to differentiate between the options.	Some comparative disadvantage over other options	Some comparative advantage over other options	Some comparative advantage over other options
				Retains vehicular traffic which will impact the low number of sensitive receptors in proximity.	Removes low level of vehicular traffic onto Diswellstown Viaduct 300m away and the construction phase is minimal. Potential for construction phase dust impact is not significant when mitigation measures are put in place.	3 dwelling within 50m. Note that only construction stage impacts expected as this is a pedestrian crossing. No bridge so lower construction impacts. Potential for construction phase dust impact is not significant when mitigation measures are put in place.
				Significant comparative advantage over other options	. Significant comparative advantage over other options	Some comparative advantage over other options
	3.3	Landscape and Visual (including light)	Key landscape characteristics affected; Impact on landscape character; Impacts on landscape features, protected landscapes. Key visual characteristics affected; Impacts on properties, amenities, protected views, key views.	No impact on existing landscape or visual characteristics	Loss of local connectivity. Minimal impact on existing landscape or visual characteristics - no likely significant landscape or visual impacts.	Significant impact on trees to north of canal - which provide screening for residential property.
				Significant comparative advantage over other options	Significant comparative advantage over other options	Some comparative disadvantage over other options
	3.4	Biodiversity (flora and fauna)	Potential compliance/conflict with biodiversity objectives; Indirect impacts on protected species, designated sites; Overall effect on nature conservation resource.	No likely significant impacts.	No likely significant impacts.	Hydrologically connected to South Dublin Bay and River Tolka Estuary SPA. No risk of LSE. Potential impacts to Royal Canal pNHA. Potential impact to woodland habitat adjacent to canal. Potential impacts to bats foraging and roosting in existing bridge, buildings and trees nearby. Given that that this option will follow existing pedestrian bridge at Porterstown Viaduct there is less impact to canal corridor than option 2 and 3.





					T+ WEST - MCA Stage 1		
	T			Porterstow	n Level Crossing Assess	ment	
	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Do Nothing	Do Minimum	Option 1
					Some comparative advantage over other options	Some comparative advantage over other options	Some comparative disadvantage over other options
3	Environment	3.5	Cultural, Archaeological and Architectural Heritage		No direct impacts.	No direct impacts.	Potential indirect impacts on Keeper's Cottage (RPS No. 699) and Former Clonsilla School (RPS No. 700) and the Royal Canal (RPS No. 944a). Potential to encounter archaeological deposits that may survive in undeveloped areas.
	-				Some comparative disadvantage over other	Some comparative advantage over other options	Some comparative disadvantage over other options
		3.6	Water Resources	Overall potential significant effects on water resource attributes likely to be affected during construction and operation.	options Potential negative impact on surface water quality during operational phase. Has some comparative disadvantage over other options.	Removes vehicular traffic borne pollutants and minimal construction phase. The Do Minimum Option has some comparative advantages over other options.	Option likely to have no significant effect on flood regime. Potential for minor impact on surface water quality during construction though removal of vehicular traffic likely to have a positive impact on water quality of Royal Canal overall. Likely minimal impact on groundwater quality.
					Some comparative advantage over other options	Some comparative disadvantage over other options	Some comparative disadvantage over other options
		3.7	Agriculture and Non-Agricultural	Overall impact on land take & property. Number of properties to be impacted/acquired. Likely temporary or permanent severance effects, etc.	No direct impacts.	No direct impacts to property however severence to local land uses in the area.	Option 1 will have a direct impact on non-agricultural lands in use as a car park for St. Mochta's GAA club.
				Soils and Geology and likely impact on geological resources based on preliminary/likely construction details. Soil or topsoil resources to be developed/removed based on cut or fill requirements and potential for soft ground which may also need replaced. Existing information relating to potential to encounter contaminated land. High-level assessment based on the likely structures/ works required and the potential for ground contamination due to historic landfills, pits and quarries.	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative disadvantage over other options
		3.8	3.8 Geology and Soils (including Waste)			No significant direct impacts.	Comparative disadvantage is considered as construction is proposed, no likely significant impacts.
	-		Radiation and Stray Current Overall likely impact on existing sources of electromagnetic radiation.		Some comparative advantage over other options	Some comparative advantage over other options	Some comparative disadvantage over other options
		3.9		No changes from an EMI perspective transverse to the railway therefore advantage over other options.	No changes from an EMI perspective transverse to the railway therefore advantage over other options.	It is assumed that the routing of the cabling, the location of existing substations, hubs etc. along the line will be changed or impacted by the selection of any of the options over the entire project. All Do- Something options are comparable from an EMI perspective at this stage in the assessment.	
					Some comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative disadvantage over other options
		4.1	Impact on Vulnerable Groups	on Vulnerable Groups Impacts on low income groups, non-car owners, mobility impaired, visually impaired and people with a disability.	With the level crossing becoming effectively closed on implementation of the proposed working timetable and with no provision for supplementaty infrastructure for vulnerable groups, the majority of users will be diverted onto the adjacent viaduct.	With removal of the level crossing and with no provision for supplementary infrastructure for vulnerable groups, the majority of users will be diverted onto the adjacent viaduct.	The alternative access proposed as part of this option for vulnerable groups includes a diversion of approximately 1.0km. This if not evident for other bridge options
					Comparable to other options	Comparable to other options	Comparable to other options
		4.2	Stations Accessibility		It is considered that alterations at Porterstown will not significantly affect access to stations in the locality	It is considered that alterations at Porterstown will not significantly affect access to stations in the locality	It is considered that alterations at Porterstown will not significantly affect access to stations in the locality



				DAR	F+ WEST - MCA Stage 1			
				Porterstow	n Level Crossing Assess	ment		
	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Do Nothing	Do Minimum	Option 1	
4	Accessibility & Social inclusion	4.3	Social Inclusion		Significant comparative disadvantage over other options Cross Railway journey = nil as crossing remains in place; Inaccessible when crossing is closed. Diversion for cars, pedestrians and cyclists when level crossing closed 1.1km The principal affected amenities in the vicinity of the level crossing include St Mochta's football grounds south of the railway, Scoil Cholim and Luttrelstown Community College and Centre south of the railway, St Mochta's National School and the Healthwell Clinic, north of the railway. Removal of the level crossing require detour for access to each of them.	Significant comparative disadvantage over other options Cross Railway journey = nil as crossing remains in place; Inaccessible when crossing is closed. Premanent diversion for cars, pedestrians and cyclists 1.1km The principal affected amenities in the vicinity of the level crossing include St Mochta's football grounds south of the railway, Scoil Cholim and Luttrelstown Community College and Centre south of the railway, St Mochta's National School and the Healthweil Clinic, north of the railway. Removal of the level crossing require detour for access to each of them.	Significant comparative disadvantage over other options Cross Railway journey = nil as crossing remains in place; Full access remains for pedestrians and cyclists on closure of the level crossing. Diversion for cars when level crossing closed 1.1km. Diversion for pedestrians, cyclists and mobility impaired ~ 1km The principal affected amenities in the vicinity of the level crossing include St Mochta's football grounds south of the railway, Scoil Choim and Luttrelstown Community College and Centre south of the railway. St Mochta's National School and the Heatthwell Clinic, north of the railway, Removal of the level crossing require detour for access to each of them.	
		5.1	Rail Safety	Safety for Rail users – removal of Level crossings is considered a significant safety enhancement	Significant comparative disadvantage over other options Maintaining the crossing would have a significant disadvantage to rail safety for people still crossing the rail.	Significant comparative advantage over other options Closing the crossing will remove the interface between rail and other traffic.	Significant comparative advantage over other options All overbridges have a significant advantage as they are a great crossing alternative	
					Comparable to other options	Comparable to other options	Comparable to other options	
5	Safety	5.2	5.2	5.2 Vehicular Traffic Safety	Quality of Access for these road users, lengths of diversions, removal of interface with rail and other modes of transport	With the level crossing becoming effectively closed on implementation of the proposed working timetable and with no additional road access proposed, traffic will be diverted onto the adjacent viaduct resulting a slight increase in traffic.	Closure of the level crossing with no additional road access proposed, traffic will be diverted onto the adjacent viaduct resulting a slight increase in traffic.	Closure of the level crossing with no additional road access proposed, traffic will be diverted onto the adjacent viaduct resulting a slight increase in traffic.
					Some comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative disadvantage over other options	
		5.3	Pedestrian, Cyclist and Vulnerable Road user Safety	Quality of Access for these road users. removal of interfaces	With the level crossing becoming effectively closed on implementation of the proposed working timetable and with no provision for supplementaty infrastructure for vulnerable road users, the majority of users will be diverted onto the adjacent viaduct.	With removal of the level crossing and with no provision for supplementaty infrastructure for vulnerable road users, the majority of users will be diverted onto the adjacent viaduct.	The alternative access proposed as part of this option for vulnerable road users includes a diversion of approximately 1.0km. This if not evident for other bridge options	



	DART+ WEST - MCA Stage 1								
				Porterstow	n Level Crossing Assess	ment			
	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Do Nothing	Do Minimum	Option 1		
					Significant comparative disadvantage over other options	Significant comparative disadvantage over other options	Significant comparative advantage over other options		
		6.1	Connectivity to adjoining cycling facilities		No cycle tracks currently present on the immediately surrounding road network, but increased closures of the level crossing would reduce access to the Royal Canal Greenway. See also Transport Integration above.	No cycle tracks on the immediately surrounding road network, but the closure of the level crossing would reduce access to the Royal Canal Greenway. See also Transport Integration above.	Local severance on Porterstown Road mitigated to a degree by access to Porterstown Viaduct		
					Significant comparative disadvantage over other options	Significant comparative disadvantage over other options	Significant comparative disadvantage over other options		
6	Physical Activity	6.2	Permeability and local access opportunity		Cross Railway journey = nil as crossing remains in place; Inaccessible when crossing is closed. Diversion for cars, pedestrians and cyclists when level crossing closed 1.1km The principal affected amenities in the vicinity of the level crossing include the Royal canal, and the amenity zoned lands south west of the level crossing. Removal of the level crossing require detour for access to each of them.	Cross Railway journey = nil as crossing remains in place; Inaccessible when crossing is closed. Premanent diversion for cars, pedestrians and cyclists 1.1km The principal affected amenities in the vicinity of the level crossing include the Royal canal,and the amenity zoned lands south west of the level crossing. Removal of the level crossing require detour for access to each of them.	Cross Railway journey = nil as crossing remains in place; Full access remains for pedestrians and cyclists on closure of the level crossing. Diversion for cars when level crossing closed 1.1km. Diversion for pedestrians, cyclists and mobility impaired - ~1km The principal affected amenities in the vicinity of the level crossing include the Royal canal, and the amenity zoned lands south west of the level crossing. Removal of the level crossing require detour for access to each of them.		
		Crite	eria		Do Nothing	Do Minimum	Option 1		
1		Econ	omy		Significant comparative disadvantage over other options	Significant comparative advantage over other options	Significant comparative disadvantage over other options		
2		Integra	ation		Significant comparative advantage over other options	Significant comparative disadvantage over other options	Some comparative disadvantage over other options		
3		Environment			Some comparative advantage over other options	Significant comparative advantage over other options	Some comparative disadvantage over other options		
4	Accessibility and social inclusion Safety Physical Activity			Significant comparative disadvantage over other options	Significant comparative disadvantage over other options	Significant comparative disadvantage over other options			
5			Significant comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative disadvantage over other options				
6			Significant comparative disadvantage over other options	Significant comparative disadvantage over other options	Some comparative disadvantage over other options				
	Pro	ogress T	o Stage 2		No	No	No		





	DART+ WEST - MCA Stage 1 Porterstown Level Crossing Assessment									
				Porterstown L	Level Crossing Assessmer					
	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Option 2	Option 3	Option 4			
					Pedestrian / Cycle Bridge with Nested Ramps in Sports Grounds and Grounds of Disused School	Pedestrian / Cycle Bridge with Ramps extending along Porterstown Road; realignment of Porterstown Road South to Accommodate this.	Pedestrian / Cycle Bridge with Nested Ramps (Same as Option 2 except the northern ramps and abutment are to the east of the Porterstown Road)			
					Some comparative advantage over other options	Some comparative disadvantage over other options	Some comparative advantage over other options			
		1.1	Construction and Land Cost	Assessment of cost of construction of option, land costs and temporary works	The costs presented here are the capital costs for the proposed bridge structure and those of turnign facilities to be provided on closure of the proposed road. An estimated of land acquisition costs is also included.	The costs presented here are the capital costs for the	The costs presented here are the capital costs for the proposed bridge structure and those of turnign facilities to be provided on closure of the proposed road. An estimated of land acquisition costs is also included.			
					Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options			
1	Economy	1.2	Long Term Maintenance costs	Ongoing annual maintenance costs associated with varied options	The maintenance costs are associated with regular inspection and maintenance of the bridge structure.	The maintenance costs are associated with regular inspection and maintenance of the bridge structure. No additional maintenance cost is allocated to the realigned section of Porterstown Road as this is currently in the charge of Fingal county Council and it is likely to remain so.	The maintenance costs are associated with regular inspection and maintenance of the bridge structure.			
				Benefits to vehicular traffic through reduction in journey time lengths and delays through removal of level crossings. Consideration of potentially longer routes for traffic.	Comparable to other options	Comparable to other options	Comparable to other options			
		1.3	Traffic Functionality /economic benefit		Displacement of traffic onto alternative routes; increase in journey times for local residents, New Link road already serves for commuter traffic.	Displacement of traffic onto alternative routes; increase in journey times for local residents, New Link road already serves for commuter traffic.	Displacement of traffic onto alternative routes; increase in journey times for local residents, New Link road already serves for commuter traffic.			
					Some comparative advantage over other options	Some comparative advantage over other options	Some comparative advantage over other options			
		2.1	Transport Integration	Impact on scope for and ease of interchange between modes. Impact on the operation of other transport services both during construction and in operation. New interchange nodes and facilities; Reduced walking and wait times associated with interchanges. Modal shift figures during construction and operations. Changes to journey times to transport nodes.	Reasonable access provided for pedestrians and cyclists. No access provided for other transport modes.	Reasonable access provided for pedestrians and cyclists. No access provided for other transport modes.	Reasonable access provided for pedestrians and cyclists. No access provided for other transport modes.			
					Some comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative disadvantage over other options			
2	Integration	2.2	Land Use Integration	Impact on land use strategies and local plans. Assessment of support for land use factors local land use and planning. Inclusion of project in relevant local planning documents.	This Option does not support Fingal DP map- based Specific Objective 137, "Preserve the existing pedestrian and vehicular right of way at the level crossing at Porterstown". However, an alternative right of way for pedestrians is being provided as part of this option	This Option does not support Fingal DP map-based Specific Objective 137; "Preserve the existing pedestrian and vehicular right of way at the level crossing at Porterstown". However, an alternative right of way for pedestrians and also the development of cycling infrastructure is provided therefore would support the 'indicative-Cycle/Pedestrian access' at the existing level crossing location (gradients & length not taken into consideration). This option supports the future development of lands zoned for "Residential Area" as part of the future Kellystown LAP by maintaining pedestrian and cycle access at this location. he Draft LAP supports the DART Expansion programme. The LAP includes the potential development of a "Future train station and' or Metro West node' on the southern side of the tracks on Porterstown Road.	At local level, Option 4 goes against Fingal DP map-based Specific Objective 137; "Preserve the existing pedestrian and vehicular right of way at the level crossing at Porterstown" by closing the existing level crossing. However, an alternative right of way for pedestrians is being provided as part of this option at the existing level crossing location. This option supports the future development of lands zoned for "Residential Area" as part of the future Kellystown LAP by maintaining pedestrian and cycle access at this location. The Draft LAP supports the DART Expansion programme. The LAP includes the potential development of a 'Future train station and/ or Metro West node' on the southern side of the tracks on Porterstown Road.			



	DART+ WEST - MCA Stage 1 Porterstown Level Crossing Assessment								
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	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Option 2	Option 3	Option 4		
				Alternative level crossing options are mostly neutral in respect of Geographical Integration due to localised nature of	Comparable to other options	Comparable to other options	Comparable to other options		
		2.3	Geographical Integration	the level crossings. As a consequence all options are rated comparable to one another.	No impact on Geographical Integration	No impact on Geographical Integration	No impact on Geographical Integration		
					Some comparative advantage over other options	Some comparative advantage over other options	Some comparative advantage over other options		
		2.4	Other Government Policy Integration	Integration with the other Government policy such as the NPF and RSES.	This option would support the delivery of the DART Expansion programme in the higher level national and regional planning policy documents.	This option would support the delivery of the DART Expansion programme in the higher level national and regional planning policy documents.	This option would support the delivery of the DART Expansion programme in the higher level national and regional planning policy documents.		
				Estimated number of sensitive properties within 100m of the	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative advantage over other options		
		3.1	3.1 Noise and Vibration	works. Options closer to more sensitive locations will have an increased risk of generating a noise impact. However, qualative criteria are also used where necessary to differentiate between the options.	27 dwelling within 100m. Note that only construction stage impacts expected as this is a pedestrian crossing.	13 dwelling within 100m. Note that only construction stage impacts expected as this is a pedestrian crossing.	8 dwelling within 100m. Note that only construction stage impacts expected as this is a pedestrian crossing.		
			3.2 Air Quality and Climate	Estimated number of number of receptors within 50m reviewed as part of appriasal. Options closer to more sensitive locations will have an increased risk of changes in air quality during construction or operational phases. However, qualative criteria are also used where necessary to differentiate between the options.	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative advantage over other options		
		3.2			4 dwelling within 50m. Note that only construction stage impacts expected as this is a pedestrian crossing.Potential for construction phase dust impact is not significant when mitigation measures are put in place. No traffic distribution data available to assess impact on new receptors therefore assessment only considers current receptors close to the level crossing.	5 dwelling within 50m. Note that only construction stage impacts expected as this is a pedestrian crossing. Potentially more embodied carbon due to additional construction material required. Potential for construction phase dust impact is not significant when mitigation measures are put in place. No traffic distribution data available to assess impact on new receptors therefore assessment only considers current receptors close to the level crossing.	5 dwelling within 50m. Note that only construction stage impacts expected as this is a pedestrian crossing.Potential for construction phase dust impact is not significant when mitigation measures are put in place. No traffic distribution data available to assess impact on new receptors therefore assessment only considers current receptors close to the level crossing.		
		3.3	3.3 Landscape and Visual (including light)		Significant comparative disadvantage over other options	Significant comparative disadvantage over other options	Significant comparative disadvantage over other options		
				Key landscape characteristics affected; Impact on landscape character; Impacts on landscape features, protected landscapes. Key visual characteristics affected; Impacts on properties, amenities, protected views, key views.	Significant impact on trees to north of canal - which provide screening for residential property. Significant visual impact for old cottages at level crossing. Visual impact on setting of Keenan bridge, with proposed bridge elevated directly over.	Significant impact on roadside trees and hedgerows. Significant visual impact for old cottages at level crossing and for properties on Porterstown Road, north of the canal. Visual impact on setting of Keenan bridge, with proposed bridge elevated directly over.	Significant impact on trees to north of canal - which provide screening for residential property. Significant visual impact for old cottages at level crossing. Visual impact on setting of Keenan bridge, with proposed bridge elevated directly over.		
					Significant comparative disadvantage over other options	Significant comparative disadvantage over other options	Significant comparative disadvantage over other options		
		3.4	3.4 Biodiversity (flora and fauna)	Potential compliance/conflict with biodiversity objectives; Indirect impacts on protected species, designated sites; Overall effect on nature conservation resource.	Hydrologically connected to South Dublin Bay and River Tolka Estuary SPA. No risk of LSE. Potential impacts to Royal Canal pNHA. Potential impacts to bats foraging and roosting in existing bridge, buildings and trees nearby. Loss of trees and vegetation at new bridge crossing and adjacent to canal and railway.	Hydrologically connected to South Dublin Bay and River Tolka Estuary SPA. No risk of LSE. Potential impacts to Royal Canai pNHA. Potential impacts to bats foraging and roosting in existing bridge, buildings and trees nearby. Loss of trees at new bridge crossing and along Porterstown Road.	Hydrologically connected to South Dublin Bay and River Tolka Estuary SPA. No risk of LSE. Potential impacts to Royal Canal pNHA. Potential impacts to bats foraging and roosting in existing bridge, buildings and trees nearby. Loss of trees and vegetation at new bridge crossing and adjacent to canal and railway.		





DART+ WEST - MCA Stage 1 Porterstown Level Crossing Assessment Parameter Criteria Sub-Criteria (Quantitative/ Qualitative) Option 2 Option 3 Option 4 Some comparative disadvantage over other Some comparative disadvantage over other options Some comparative disadvantage over other options options Overall effect on cultural, archaeological and architecture Potential indirect impacts on Keeper's Cottage 3 Environment Potential indirect impacts on Keeper's Cottage (RPS No. 699). Potential indirect impacts on Keeper's Cottage (RPS No. heritage resource. Likely effects on RPS. National (RPS No. 699), Former Clonsilla School (RPS No. Cultural, Archaeological and Former Clonsilla School (RPS No. 700). This Option crosses 699), Former Clonsilla School (RPS No. 700). This Option 35 Monuments, SMRs, Conservation areas, etc. 700). This Option crosses the canal at the same Architectural Heritage the canal at the same location and has the potential to crosses the canal at the same location and has the Number of designated sites/structures (by level of location and has the potential to indirectly impact indirectly impact the Kennan Bridge (RPS No. 698) and the potential to indirectly impact the Kennan Bridge (RPS No. designation) directly impacted by scheme (landtake) the Kennan Bridge (RPS No. 698) and the Royal Roval Canal (RPS No. 944a) 698) and the Roval Canal (RPS No. 944a). Canal (RPS No. 944a) Some comparative disadvantage over other Some comparative disadvantage over other options Some comparative disadvantage over other options options Option likely to have no significant effect on flood Overall potential significant effects on water resource Option likely to have no significant effect on flood Option likely to have no significant effect on flood regime. regime. Potential for minor impact on surface water 3.6 Water Resources attributes likely to be affected during construction and regime.Potential for minor impact on surface water quality Potential for minor impact on surface water quality during quality during construction though removal of operation. during construction though removal of vehicular traffic likely to construction though removal of vehicular traffic likely to vehicular traffic likely to have a positive impact on have a positive impact on water quality of Royal Canal overall. have a positive impact on water quality of Royal Canal water quality of Royal Canal overall. Likely minimal Likely minimal impact on groundwater quality. overall. Likely minimal impact on groundwater quality. impact on groundwater quality. Some comparative disadvantage over other Some comparative disadvantage over other options Some comparative disadvantage over other options Overall impact on land take & property. Number of properties Option 3 will impact on lands used by St. Mochta's GAA club, 3.7 Agriculture and Non-Agricultural to be impacted/acquired. Likely temporary or permanent Option 2 will have a direct impact on non-Option 4 will have a direct impact on non-agricultural lands severance effects, etc. agricultural lands in use as a car park for St. St. Mochta's FC and St. Mochta's National School in use as a car park for St. Mochta's GAA club. Mochta's GAA club. Some comparative disadvantage over other Some comparative disadvantage over other options Some comparative disadvantage over other options Soils and Geology and likely impact on geological resources options based on preliminary/likely construction details. Soil or topsoil resources to be developed/removed based on cut or fill requirements and potential for soft ground which may also Geology and Soils (including need replaced. Existing information relating to potential to Comparative disadvantage is considered as 3.8 Wastel Comparative disadvantage is considered as construction is Comparative disadvantage is considered as construction is encounter contaminated land. High-level assessment based construction is proposed, no likely significant proposed, no likely significant impacts. proposed, no likely significant impacts. on the likely structures/ works required and the potential for impacts. ground contamination due to historic landfills, pits and quarries Some comparative disadvantage over other Some comparative disadvantage over other options Some comparative disadvantage over other options options It is assumed that the routing of the cabling, the is assumed that the routing of the cabling, the location of It is assumed that the routing of the cabling, the location of 3.9 Radiation and Strav Current location of existing substations, hubs etc. along the existing substations, hubs etc. along the line will be existing substations, hubs etc. along the line will be changed Overall likely impact on existing sources of electromagnetic line will be changed or impacted by the selection of hanged or impacted by the selection of any of the options or impacted by the selection of any of the options over the radiation any of the options over the entire project. All Doover the entire project. All Do-Something options are entire project. All Do-Something options are comparable from comparable from an EMI perspective at this stage in the Something options are comparable from an EMI an EMI perspective at this stage in the assessment. perspective at this stage in the assessment. assessment Some comparative advantage over other Some comparative advantage over other options Some comparative advantage over other options options Impacts on low income groups, non-car owners, mobility 41 Impact on Vulnerable Groups High Quality access for vulnerable groups impaired, visually impaired and people with a disability. High Quality access for vulnerable groups proposed with thhe High Quality access for vulnerable groups proposed with proposed with the inclusion of bridge infrastructure inclusion of bridge infrastructure in this option. thhe inclusion of bridge infrastructure in this option. in this option Comparable to other options Comparable to other options Comparable to other options Quantification of increased service levels to the vulnerable 4.2 Stations Accessibility aroups It is considered that alterations at Porterstown will It is considered that alterations at Porterstown will not It is considered that alterations at Porterstown will not not significantly affect access to stations in the significantly affect access to stations in the locality significantly affect access to stations in the locality locality



				DART+	WEST - MCA Stage 1		
	1			Porterstown I	_evel Crossing Assessmer	nt	
	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Option 2	Option 3	Option 4
4	Accessibility & Social inclusion	4.3	Social Inclusion	Service levels impacts including severance of community groups; Severance from community facilities consequent on an option.	Healthwell Clinic, north of the railway. Removal of	Significant comparative advantage over other options Cross Railway journey = nil as crossing remains in place; Full access remains for pedestrians and cyclists on closure of the level crossing. Diversion for cars when level crossing closed 1.1km. Diversion for pedestrians, cyclists and mobility impaired - ~0.35km The principal affected amenities in the vicinity of the level crossing include St Mochta's football grounds south of the railway, Scoil Cholim and Luttrelstown Community College and Centre south of the railway. St Mochta's National School and the Healthwell Clinic, north of the railway. Removal of the level crossing require detour for access to each of them.	and Centre south of the railway, St Mochta's National
		5.1	Rail Safety	Safety for Rail users – removal of Level crossings is considered a significant safety enhancement	Significant comparative advantage over other options All overbridges have a significant advantage as they are a great crossing alternative	Significant comparative advantage over other options All overbridges have a significant advantage as they are a great crossing alternative	Significant comparative advantage over other options All overbridges have a significant advantage as they are a great crossing alternative
					Comparable to other options	Comparable to other options	Comparable to other options
5	Safety	5.2	Vehicular Traffic Safety	Quality of Access for these road users, lengths of diversions, removal of interface with rail and other modes of transport	Closure of the level crossing with no additional road access proposed, traffic will be diverted onto the adjacent viaduct resulting a slight increase in traffic.	Closure of the level crossing with no additional road access proposed, traffic will be diverted onto the adjacent viaduct resulting a slight increase in traffic.	Closure of the level crossing with no additional road access proposed, traffic will be diverted onto the adjacent viaduct resulting a slight increase in traffic.
					Some comparative advantage over other options	Some comparative advantage over other options	Some comparative advantage over other options
		5.3	Pedestrian, Cyclist and Vulnerable Road user Safety	Quality of Access for these road users. removal of interfaces	High Quality access for vulnerable road users proposed with thhe inclusion of bridge infrastructure in this option.	High Quality access for vulnerable road users proposed with thhe inclusion of bridge infrastructure in this option.	High Quality access for vulnerable road users proposed with thhe inclusion of bridge infrastructure in this option.



	DART+ WEST - MCA Stage 1															
				Porterstown L	_evel Crossing Assessmer	nt										
	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Option 2	Option 3	Option 4									
					Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options									
		6.1	Connectivity to adjoining cycling facilities	Analysis of the extent that the scheme connects with cycle tracks.	Severance overcome by provision of direct replacement.	Severance overcome by provision of direct replacement.	Severance overcome by provision of direct replacement.									
					Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options									
6	Physical Activity				Cross Railway journey = nil as crossing remains in place; Full access remains for pedestrians and cyclists on closure of the level crossing.	Cross Railway journey = nil as crossing remains in place; Full access remains for pedestrians and cyclists on closure of the level crossing.	Cross Railway journey = nil as crossing remains in place; Full access remains for pedestrians and cyclists on closure of the level crossing.									
		6.2	Permeability and local access opportunity	Journey Time and lengths of diversions for active modes and numbers affected. Analysis of the connectivity between level crossing and green areas/key attractions related to active mode	Diversion for cars when level crossing closed 1.1km. Diversion for pedestrians, cyclists and mobility impaired - ~0.35km	Diversion for cars when level crossing closed 1.1km. Diversion for pedestrians, cyclists and mobility impaired - ~0.35km	Diversion for cars when level crossing closed 1.1km. Diversion for pedestrians, cyclists and mobility impaired - ~0.35km									
														The principal affected amenities in the vicinity of the level crossing include the Royal canal, and the amenity zoned lands south west of the level crossing. Removal of the level crossing require detour for access to each of them.	The principal affected amenities in the vicinity of the level crossing include the Royal canal, and the amenity zoned lands south west of the level crossing. Removal of the level crossing require detour for access to each of them.	The principal affected amenities in the vicinity of the level crossing include the Royal canal, and the amenity zoned lands south west of the level crossing. Removal of the level crossing require detour for access to each of them.
		Crite	eria		Option 2	Option 3	Option 4									
1		Econ	omy		Some comparative advantage over other options	Some comparative disadvantage over other options	Some comparative advantage over other options									
2		Integr	ation		Some comparative advantage over other options	Some comparative advantage over other options	Some comparative advantage over other options									
3		Enviro	nment		Significant comparative disadvantage over other options	Significant comparative disadvantage over other options	Significant comparative disadvantage over other options									
4	Accessibility and social inclusion Safety		social inclusion		Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options									
5				Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options										
6	Physical Activity			Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options										
	Pro	gress T	o Stage 2		Yes	Yes	Yes									