





DART+ Maynooth Line - MCA Stage 2					
Blakestown Level Crossing Assessment					
Parameter	Criteria	Sub-Criteria (Quantitative/Qualitative)	Do-Minimum (Management) Option - Close level crossing and provide no alternative	Option 1 - Closure of the level crossing and provision of a pedestrian overbridge that is approx. 7m in elevation.	
1	Economy	1.1 Construction and Land Cost	Assessment of cost of construction of option, land costs, acquisition costs and temporary works	Some comparative advantage over other options	Significant comparative advantage over other options
		1.2 Long Term Maintenance costs	Steel options vs concrete options for structures and maintaining level crossings versus removing them	There is minimal capital cost associated with the option. There may be costs associated with maintenance in respect of the closure	There is significant capital cost and construction difficulty associated with this option in comparison to Option 1. There may be costs associated with maintenance in respect of the closure.
		1.3 Traffic Functionality/Economic benefit	Benefits to vehicular traffic through reduction in journey time savings and delays through removal of level crossings. Consideration of potentially longer routes for traffic.	Comparable to other options	Comparable to other options
2	Integration	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 interchanges, 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.	Some comparative disadvantage over other options	Some comparative advantage over other options
		2.2 Land Use Integration	Impact on land use strategies and regional and local plans. Assessment of support for land use factors local land use and planning. Inclusion of project in relevant local and regional planning documents.	It is not clear the Option is consistent with the Local UoP 2022-2024 which recognises the level crossings will be required to be removed. This option will not meet the project objectives and the benefits deemed to be compatible from a policy perspective.	It is not clear the Option is consistent with the Local UoP 2022-2024 which recognises the level crossings will be required to be removed. This option will not meet the project objectives and the benefits deemed to be compatible from a policy perspective.
		2.3 Geographical Integration	Impact on improvement of external links. Desire to link various geographical - mostly rural due to localised nature of the level crossings. Overall identification scheme would be highly positive.	Comparable to other options	Comparable to other options
		2.4 Other Government Policy	Integration with Government Policy, Smarter Travel, Investment Programmes, rail safety, electrification etc.	Some comparative disadvantage over other options	Significant comparative advantage over other options
3	Environment	3.1 Noise and Vibration	Estimated number of people likely to be affected by transport related noise with the scheme within 50m.	No impact	Removes vehicle traffic but will have some short term construction impacts.
		3.2 Air Quality and Climate	Local air quality effects. No. of number of receptors within 50m.	Removes vehicle traffic and individual construction phase	Removes vehicle traffic therefore requiring longer trips on alternative routes for some traffic. However, reduces localised traffic impacts, some short term construction impacts.
		3.3 Landscape and Visual (Including Light)	Key landscape characteristics affected. Effects on local key views. Impact on landscape character.	No impact on existing landscape or visual characteristics	Assumes minimal physical intervention in environment to impact on existing landscape or visual characteristics
		3.4 Biodiversity (Flora and Fauna)	Potential compliance conflict with biodiversity objectives. Indirect impacts on protected species, designated sites. Overall effect on nature conservation resources.	No impact on existing Biodiversity (Flora and Fauna)	Hydrologically connected to South Dublin Bay and River Tolka Catchment SPA. No risk of SDC. Potential impact to Royal Canal catchment arising from the construction of new pedestrian bridge.
		3.5 Cultural, Archaeological and Architectural Heritage	Overall effect on cultural, archaeological and architectural heritage resources. Likely effects on RPS, National Monuments, SMRs, Conservation areas, etc. Number of designated structures (by level of designation) directly impacted by scheme (landside)	No impact on existing Cultural, Archaeological and Architectural Heritage	Indirect impacts on canal bridge (RPS). Potential direct impacts on archaeological resources. Impact on a protected area.
		3.6 Water Resources	Overall potential significant effects on water resource attributes likely to be affected during construction and operation.	Removes vehicle traffic from polluting and minimal construction phase. The Do-Minimum Option has some comparative advantage over other options.	Potential negative impact on groundwater quality during construction phase. This is a comparative disadvantage over other options.
		3.7 Agriculture and Non-Agricultural	Overall impact on land take & present. Number of properties to be impacted/acquired. Likely temporary or permanent severance effects, etc.	No impact on Agriculture and Non-Agricultural assets	Will impact on agricultural and non-agricultural property. There is no impact on access to lands though there will be increased travel for vehicular journeys to R146.
		3.8 Geology and Soils (Including Waste)	Soils and Geology and likely impact on geological resources based on preliminary/likely construction details. % of soil resources to be decommissioned. Existing information relating to potential to encounter contaminated land. High-level assessment based on the likely structural works required and the potential for ground contamination due to historic landfills, pits and quarries.	No impact on Geology and Soils (Including Waste)	There is material impact associated with the bridge construction. It is anticipated that foundations will be shallow. With the incorporation of significant number of shallow foundation locations associated with pedestrian bridge construction it is considered the impact of the option is significantly greater than for the Do-Minimum Option particularly due to the proximity of the road track.
		3.9 Radiation and Stray Current	Overall likely impact on existing sources of electromagnetic radiation.	All options are comparable from an EMR perspective.	All options are comparable from an EMR perspective.
		4	Accessibility & Social Inclusion	4.1 Impact on Vulnerable Groups	Quantification of increased service levels to the vulnerable groups.
4.2 Stations Accessibility	Quantification of increased service levels to the vulnerable groups.			Comparable to other options	Comparable to other options
4.3 Social Inclusion	Quantification of service levels impacts including severance to all groups. Severance of local communities through removal of level crossings without connection would be worst under this heading.			Shortest diversion route 2.3km (1% diversion route)	Shortest diversion route 2.3km (1% diversion route), pedestrian and cycle and non-motorised road users advised for
5	Safety	5.1 Rail Safety	Safety for Rail users - removal of LC positive in this respect	Some comparative advantage over other options	Some comparative disadvantage over other options
		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.	Using the crossing with an alternative would have a slight disadvantage as it would divert traffic onto longer routes.	Using the crossing would have a slight disadvantage to rail users as they would have to use alternative routes.
		5.3 Pedestrian, Cyclist and Vulnerable Road user Safety	Quality of Access for these road users, removal of interfaces	Some comparative advantage over other options	Comparable to other options
6	Physical Activity	6.1 Connectivity to adjoining cycling facilities	Analysis of the extent that the scheme connects with cycle tracks	No cycle tracks on the immediately surrounding road network, but the extent of the local cycling network extends to the Royal Canal Greenway. See also Transport Integration above.	Severance inevitable by provision of direct replacement.
		6.2 Permeability and local connectivity opportunity	Journey Time and lengths of diversions for active modes and routes affected. Analysis of the connectivity between level crossing and given assembly structures related to active mode.	Severance of existing connectivity	Severance inevitable by provision of direct replacement.

Criteria	Do-Minimum (Management) Option - Close level crossing and provide no alternative	Option 1 - Closure of the level crossing and provision of a pedestrian overbridge that is approx. 7m in elevation.
1 Economy	Some comparative advantage over other options	Significant comparative advantage over other options
2 Integration	Some comparative disadvantage over other options	Some comparative advantage over other options
3 Environment	Significant comparative advantage over other options	Significant comparative advantage over other options
4 Accessibility and social inclusion	Some comparative disadvantage over other options	Some comparative advantage over other options
5 Safety	Some comparative advantage over other options	Significant comparative advantage over other options
6 Physical Activity	Some comparative advantage over other options	Significant comparative advantage over other options
Preferred Option Ranking	1	2
Comment		



DART+ Maynooth Line - MCA Stage 2

Coolmine Level Crossing Assessment

Parameter	Criteria	Sub-Criteria (Quantitative/Qualitative)	Option 1	Option 3 with Pedestrian Cycle Bridge	Option 4 with Pedestrian Cycle Bridge	Option 6
1	Economy	1.1 Construction and Land Cost	Some competitive advantage over other options			
		1.2 Long Term Maintenance costs	Some competitive advantage over other options			
		1.3 Traffic Functionality / economic benefit	Some competitive advantage over other options			
2	Integration	2.1 Transport Integration	Some competitive advantage over other options			
		2.2 Land Use Integration	Some competitive advantage over other options			
		2.3 Geographical Integration	Some competitive advantage over other options			
3	Environment	3.1 Other Government Policy	Some competitive advantage over other options			
		3.2 Noise and Vibration	Some competitive advantage over other options			
		3.3 Air Quality and Climate	Some competitive advantage over other options			
3	Environment	3.4 Landscape and Visual (including light)	Some competitive advantage over other options			
		3.5 Biodiversity (flora and fauna)	Some competitive advantage over other options			
		3.6 Cultural, Archaeological and Architectural Heritage	Some competitive advantage over other options			
3	Environment	3.7 Water Resources	Some competitive advantage over other options			
		3.8 Agriculture and Non-Agriculture	Some competitive advantage over other options			
		3.9 Geology and Soils (including Waste)	Some competitive advantage over other options			
4	Accessibility & Social Inclusion	4.0 Radiation and Stray Current	Some competitive advantage over other options			
		4.1 Impact on Vulnerable Groups	Some competitive advantage over other options			
		4.2 Stations Accessibility	Some competitive advantage over other options			
5	Safety	5.1 Rail Safety	Some competitive advantage over other options			
		5.2 Vehicular Traffic Safety	Some competitive advantage over other options			
		5.3 Pedestrian, Cyclist and Vulnerable Road user Safety	Some competitive advantage over other options			
6	Physical Activity	6.1 Connectivity to adjoining cycling facilities	Some competitive advantage over other options			
		6.2 Permeability and local connectivity opportunity	Some competitive advantage over other options			
		6.3 Permeability and local connectivity opportunity	Some competitive advantage over other options			

Criteria	Option 1	Option 3 with Pedestrian Cycle Bridge	Option 4 with Pedestrian Cycle Bridge	Option 6
1	Some competitive advantage over other options			
2	Some competitive advantage over other options			
3	Some competitive advantage over other options			
4	Some competitive advantage over other options			
5	Some competitive advantage over other options			
6	Some competitive advantage over other options			
Preferred Option Ranking	2	1	4	3
Comment	Best of western options			

DART+ Maynooth Line - MCA Stage 2							
Porterstown Level Crossing Assessment							
Parameter	Criteria	Sub-Criteria (Quantitative/Qualitative)	Option 1	Option 2	Option 3	Option 4	
1	Economy	1.1 Construction and Land Cost	Assessment of cost of construction of option, land costs, acquisition costs and temporary works	Some comparative advantage over other options Construction cost is higher for this option for other options due to the height of the viaduct and the length of options needed to reach back level. In addition there is an additional cost of all grade access tracks to the viaduct.	Some comparative disadvantage over other options The construction cost of this option is equivalent to the cost of Option 4. It is cheaper than Option 3 and 1.	Significant comparative disadvantage over other options The construction cost of this option is higher than Option 2 and 4 due to the provision to increase road on the existing bridge on the viaduct ground. This option also includes for realignment of a section of Porterstown Road south of the viaduct. The land acquisition costs of this option are higher than for other options.	Some comparative disadvantage over other options The construction cost of this option is equivalent to the cost of Option 2. It is cheaper than Option 3 and 1.
		1.2 Long Term Maintenance costs	Steel options vs concrete options for structures and maintaining level crossings versus removing them	Some comparative advantage over other options Reinforced concrete structures are anticipated. These have relatively modest ongoing maintenance. The cost is equivalent to all options.	Some comparative disadvantage over other options Reinforced concrete structures are anticipated. These have relatively modest ongoing maintenance. The cost is equivalent to all options.	Some comparative disadvantage over other options Reinforced concrete structures are anticipated. These have relatively modest ongoing maintenance. The cost is equivalent to all options.	Some comparative advantage over other options Reinforced concrete structures are anticipated. These have relatively modest ongoing maintenance. The cost is equivalent to all options.
		1.3 Traffic Functionality/economic benefit	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 Deployment of low traffic volumes (between 50 and 110 vehicles) during peak hours on alternative routes. Increase in journey times for local residents. New Link road already serves for commuter traffic.	Some comparative disadvantage over other options Deployment of low traffic volumes (between 50 and 110 vehicles) during peak hours on alternative routes. Increase in journey times for local residents. New Link road already serves for commuter traffic.	Some comparative disadvantage over other options Deployment of low traffic volumes (between 50 and 110 vehicles) during peak hours on alternative routes. Increase in journey times for local residents. New Link road already serves for commuter traffic.	Some comparative advantage over other options Deployment of low traffic volumes (between 50 and 110 vehicles) during peak hours on alternative routes. Increase in journey times for local residents. New Link road already serves for commuter traffic.
2	Integration	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.	Some comparative advantage over other options Some modest access provided for pedestrians and cyclists, but less preferable than other options. No access provided for other transport modes.	Some comparative disadvantage over other options Reasonable access provided for pedestrians and cyclists. No access provided for other transport modes.	Some comparative advantage over other options Reasonable access provided for pedestrians and cyclists. No access provided for other transport modes.	Some comparative advantage over other options Reasonable access provided for pedestrians and cyclists. No access provided for other transport modes.
		2.2 Land Use Integration	Impact on land use strategies and regional and local plans. Assessment of support for land use factors local use and planning. Inclusion of project in relevant local and regional planning documents. All options are supported by the national and regional planning policy context, including the NPPF and the REIS. The REIS developed the Dublin MASH, which includes the 'Guiding Principles for the Growth of this area is integrated Transport and Land Use'. The focus is on growing existing and proposed high quality public transport corridors and nodes on the expanding public transport network and to support the delivery and integration of 'BusConnect', DART expansion and LUAS extension programmes, and Metro Link, while maintaining the capacity and safety of strategic transport network.	At local level, the Fringe DP supports the development of the project under Objective 10: 'Support Local Development and the REIS in supporting the DART Expansion Programme, including the extension of the DART line to Balbriggan, the stage 2 extension of the DART line to Maynooth, and the extension of the DART line to Maynooth'. Option 1 also aligns with the 'Guiding Principles for the Growth of this area is integrated Transport and Land Use'. The focus is on growing existing and proposed high quality public transport corridors and nodes on the expanding public transport network and to support the delivery and integration of 'BusConnect', DART expansion and LUAS extension programmes, and Metro Link, while maintaining the capacity and safety of strategic transport network.	At local level, the Fringe DP supports the development of the project under Objective 10: 'Support Local Development and the REIS in supporting the DART Expansion Programme, including the extension of the DART line to Balbriggan, the stage 2 extension of the DART line to Maynooth, and the extension of the DART line to Maynooth'. Option 2 also aligns with the 'Guiding Principles for the Growth of this area is integrated Transport and Land Use'. The focus is on growing existing and proposed high quality public transport corridors and nodes on the expanding public transport network and to support the delivery and integration of 'BusConnect', DART expansion and LUAS extension programmes, and Metro Link, while maintaining the capacity and safety of strategic transport network.	At local level, the Fringe DP supports the development of the project under Objective 10: 'Support Local Development and the REIS in supporting the DART Expansion Programme, including the extension of the DART line to Balbriggan, the stage 2 extension of the DART line to Maynooth, and the extension of the DART line to Maynooth'. Option 3 also aligns with the 'Guiding Principles for the Growth of this area is integrated Transport and Land Use'. The focus is on growing existing and proposed high quality public transport corridors and nodes on the expanding public transport network and to support the delivery and integration of 'BusConnect', DART expansion and LUAS extension programmes, and Metro Link, while maintaining the capacity and safety of strategic transport network.	At local level, the Fringe DP supports the development of the project under Objective 10: 'Support Local Development and the REIS in supporting the DART Expansion Programme, including the extension of the DART line to Balbriggan, the stage 2 extension of the DART line to Maynooth, and the extension of the DART line to Maynooth'. Option 4 also aligns with the 'Guiding Principles for the Growth of this area is integrated Transport and Land Use'. The focus is on growing existing and proposed high quality public transport corridors and nodes on the expanding public transport network and to support the delivery and integration of 'BusConnect', DART expansion and LUAS extension programmes, and Metro Link, while maintaining the capacity and safety of strategic transport network.
		2.3 Geographical Integration	Impact on improvement of external links. Desire to link various geographical - mostly rural districts - to the urban core. Overall classification scheme would be highly positive.	Comparable to other options The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access.	Comparable to other options The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access.	Comparable to other options The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access.	Comparable to other options The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access. The existing road access at porterstown level crossing provides for single lane vehicular access.
2.4 Other Government Policy	Integration with Government Policy. Smarter Travel, Investment Program, call safety, electrification etc.	Comparable to other options Roadway for pedestrian and cycle access is appropriate with providing adjacent vehicular access.	Comparable to other options Roadway for pedestrian and cycle access is appropriate with providing adjacent vehicular access.	Comparable to other options Roadway for pedestrian and cycle access is appropriate with providing adjacent vehicular access.	Comparable to other options Roadway for pedestrian and cycle access is appropriate with providing adjacent vehicular access.		
3.1	Noise and Vibration	Estimated number of people likely to be affected by transport related noise, with the scheme within 50m. All options remove through vehicular traffic from the location.	2 dwelling within 100m. Note that only construction stage impacts expected in this is a pedestrian, cycle crossing.	2 dwelling within 100m. Note that only construction stage impacts expected in this is a pedestrian, cycle crossing.	2 dwelling within 100m. Note that only construction stage impacts expected in this is a pedestrian, cycle crossing.	2 dwelling within 100m. Note that only construction stage impacts expected in this is a pedestrian, cycle crossing.	
3.2	Air Quality and Climate	Local air quality effects. No of number of receptors within 50m. All options remove through vehicular traffic from the location.	2 dwelling within 100m. Note that only construction stage impacts expected in this is a pedestrian, cycle crossing. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	2 dwelling within 100m. Note that only construction stage impacts expected in this is a pedestrian, cycle crossing. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	2 dwelling within 100m. Note that only construction stage impacts expected in this is a pedestrian, cycle crossing. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	2 dwelling within 100m. Note that only construction stage impacts expected in this is a pedestrian, cycle crossing. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	
3.3	Landscape and Visual (including light)	Key landscape characteristics identified. Effects on listed key views. Impact on landscape character.	Significant impact on trees to north of canal - which provides screening for residential property.	Significant impact on trees to north of canal - which provides screening for residential property.	Significant impact on trees to north of canal - which provides screening for residential property.	Significant impact on trees to north of canal - which provides screening for residential property.	
3.4	Biodiversity (flora and fauna)	Potential compliance/conflict with biodiversity objectives. Indirect impacts on protected species, designated sites. Overall effect on nature conservation.	Hydrologically connected to South Dublin Bay and River Tolka Estuary SPA. No risk of LSE. Potential impacts to River Canal (MHA). Potential impacts to both flooding and existing bridge. Buildings and trees nearby. Loss of trees and vegetation on site of bridge crossing and at a greater extent to the north of the canal and railway where screening is provided to accommodate the eastern campus and driveway. Gains that this option makes work over and beyond to canal as well as of associated habitat from that option.	Hydrologically connected to South Dublin Bay and River Tolka Estuary SPA. No risk of LSE. Potential impacts to River Canal (MHA). Potential impacts to both flooding and existing bridge. Buildings and trees nearby. Loss of trees and vegetation on site of bridge crossing and at a greater extent to the north of the canal and railway where screening is provided to accommodate the eastern campus and driveway. Gains that this option makes work over and beyond to canal as well as of associated habitat from that option.	Hydrologically connected to South Dublin Bay and River Tolka Estuary SPA. No risk of LSE. Potential impacts to River Canal (MHA). Potential impacts to both flooding and existing bridge. Buildings and trees nearby. Loss of trees and vegetation on site of bridge crossing and at a greater extent to the north of the canal and railway where screening is provided to accommodate the eastern campus and driveway. Gains that this option makes work over and beyond to canal as well as of associated habitat from that option.	Hydrologically connected to South Dublin Bay and River Tolka Estuary SPA. No risk of LSE. Potential impacts to River Canal (MHA). Potential impacts to both flooding and existing bridge. Buildings and trees nearby. Loss of trees and vegetation on site of bridge crossing and at a greater extent to the north of the canal and railway where screening is provided to accommodate the eastern campus and driveway. Gains that this option makes work over and beyond to canal as well as of associated habitat from that option.	
3.5	Cultural, Archaeological and Architectural Heritage	Overall effect on cultural, archaeological and architectural heritage resources. Likely effects on DPS, National Monuments, SMRS, Conservation areas, etc. Number of designated sites/structures (by level of designation) directly impacted by scheme (indirect)	Indirect impacts on Crossing college and school house (RPS). Potential direct impact on archaeological deposits that may survive in ground level.	Indirect impacts on Crossing college, school house, canal bridge and canal.	Indirect impacts on Crossing college, school house, canal bridge and canal.	Indirect impacts on Crossing college, school house, canal bridge and canal.	
3.6	Water Resources	Overall potential significant effects on water resource attributes likely to be affected during construction and operation.	Minimal negative impact on groundwater quality during construction phase. No comparative disadvantage over other options.	Minimal negative impact on groundwater quality during construction phase. No comparative disadvantage over other options.	Minimal negative impact on groundwater quality during construction phase. No comparative disadvantage over other options.	Minimal negative impact on groundwater quality during construction phase. No 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 non-agricultural impacts associated with Option 1 will have significant impacts on lands (or parks) used by St. Monica's GAA club.	No non-agricultural impacts associated with Option 2 will have significant impacts on lands (or parks) used by St. Monica's GAA club.	Option 3 will result in lands used by St. Monica's GAA club, St. Monica's VC and St. Monica's National School.	No non-agricultural impacts associated with Option 4 will have significant impacts on lands (or parks) used by St. Monica's GAA club.	
3.8	Geology and Soils (including Waste)	Soils and Geology and likely impact on geological resources based on preliminary/likely construction details. % of soil resources to be lost.	All options are equivalent in respect of geological and soils impact.	All options are equivalent in respect of geological and soils impact.	All options are equivalent in respect of geological and soils impact.	All options are equivalent in respect of geological and soils impact.	
3.9	Radiation and Stray Current	Overall likely impact on existing sources of electromagnetic radiation.	All options are comparable from an EMF perspective.	All options are comparable from an EMF perspective.	All options are comparable from an EMF perspective.	All options are comparable from an EMF perspective.	
4	Accessibility & Social Inclusion	4.1 Impact on Vulnerable Groups	Do options address the needs of vulnerable groups. How do they compare to one another in this regard.	All options introduce ramped and stepped access to replace a grade access over the level crossing. The stepped access incorporates maximum gradients of 2% and are inherently longer than the original access routes. The options provide for segregation from the bus lanes. The distance for Option 1 is significantly longer than for other options.	All options introduce ramped and stepped access to replace a grade access over the level crossing. The stepped access incorporates maximum gradients of 2% and are inherently longer than the original access routes. The options provide for segregation from the bus lanes. The distance for Option 1 is significantly longer than for other options.	All options introduce ramped and stepped access to replace a grade access over the level crossing. The stepped access incorporates maximum gradients of 2% and are inherently longer than the original access routes. The options provide for segregation from the bus lanes. The distance for Option 1 is significantly longer than for other options.	All options introduce ramped and stepped access to replace a grade access over the level crossing. The stepped access incorporates maximum gradients of 2% and are inherently longer than the original access routes. The options provide for segregation from the bus lanes. The distance for Option 1 is significantly longer than for other options.
		4.2 Stations Accessibility	Quantification of increased service levels to the vulnerable groups.	Original Distance from the Village Junction to Porterstown Road Junction 600m (stepped)	Original Distance from the Village Junction to Porterstown Road Junction 600m (stepped)	Original Distance from the Village Junction to Porterstown Road Junction 600m (stepped)	Original Distance from the Village Junction to Porterstown Road Junction 600m (stepped)
		4.3 Social Inclusion	Quantification of service levels impacts including severance to all groups (Severance of local communities through removal of level crossings without connection would fall worst under this heading)	Original Distance from the Village Junction to Porterstown Road Junction 600m (stepped)	Original Distance from the Village Junction to Porterstown Road Junction 600m (stepped)	Original Distance from the Village Junction to Porterstown Road Junction 600m (stepped)	Original Distance from the Village Junction to Porterstown Road Junction 600m (stepped)
5	Safety	5.1 Rail Safety	Safety for Rail users - removal of L.C positive in this respect	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.
		5.2 Vehicular Traffic Safety	Quality of Access for these road users, length of diversions, removal of interface with rail and other modes of transport.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.
		5.3 Pedestrian, Cyclist and Vulnerable Road user Safety	Quality of Access for these road users, removal of interfaces	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.	Options 1, 2 and 3 are comparable. All options will result in the same additional operational phase vehicle changes to emissions due to removing traffic.
6	Physical Activity	6.1 Connectivity to adjoining cycling facilities	Analysis of the extent that the scheme connects with cycle tracks.	Severance overcome by provision of dead replacement.			
		6.2 Permeability and local connectivity opportunity	Journey Time and lengths of diversions for active modes and numbers affected. Analysis of the connectivity between level crossings and green amenity attractions related to active mode	Severance overcome by provision of dead replacement.			

Criteria	Option 1	Option 2	Option 3	Option 4
1 Economy	Some comparative advantage over other options	Some comparative disadvantage over other options	Significant comparative disadvantage over other options	Some comparative disadvantage over other options
2 Integration	Some comparative advantage over other options	Some comparative disadvantage over other options	Some comparative advantage over other options	Some comparative advantage over other options
3 Environment	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative advantage over other options
4 Accessibility and social inclusion	Significant comparative disadvantage over other options	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative advantage over other options
5 Safety	Some comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options
6 Physical Activity	Some comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options
Preferred Option Ranking	4	1	3	2
Comment				