

Made:	DY	Scheme Name - N2 Rath Roundabout to Kilmoon Cross			
Checked:	RB	Project Number - 60602546			
Approved:	CA				
Date	Jun-20				
2019 Project Management Manual	Phase 2				
Identified Hazard or Risk. (P) indicates a Particular Risk listed in Schedule 1 of the Regulations	Exposed Party			Evaluation, Design Decisions and / or Alternative Actions <i>Description of risk or hazardous activity</i> <i>Describe the design decisions, assumed construction methods and / or alternative actions</i>	Is the risk / hazard significant, ie 1. Not obvious to a competent contractor or other designers, or 2. Unusual, or 3. Difficult to manage such that information should be provided to the PSDP?
	Contractor	Public	End User Maintainer		
Work which puts persons at work at risk of falling from a height (P)	✓			<i>The route options will require a crossing of the River Hurley and may also require overbridges or underbridges at intersections with local roads within the study area. Bridge construction to be optimised to accommodate prefabrication of elements of the bridge construction to minimise exposure to risk of falling from height during construction of the structures.</i>	Yes
Work which puts persons at work at risk of burial under earthfalls (P)	✓			<i>Route options traversing high areas of ground within the study area such as Windmill Hill were sifted out prior to the Stage 1 assessment due to increased earthworks requirements, major visual impact, and associated costs. Therefore, the alignments of the Stage 1 route options are unlikely to generate any significant cuttings within the scheme extents. Excavations for foundations, drains, attenuation systems are to be highlighted to the contractor as part of the works information.</i>	No
Work which puts persons at work at risk of engulfment in swampland (P)	✓			<i>There are no areas within the study area that are identified as peat deposits on the Teagasc mapping. However, extents of alluvial deposits and lacustrine sediments may be encountered in proximity to the Hurley River and Riverstown River. These areas have been identified as having compressible soil with potential instability. The preferred construction method will vary depending on the depth of the deposits encountered. Impact of soft ground at the locations the options cross will be highlighted to the contractor.</i>	No

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Work which puts persons at work at risk from chemical or biological substances (P)	✓				<i>There are a number of sites within the study area that could have the potential for contamination beyond the boundaries of their sites. These include commercial and industrial sites, cemeteries, electrical substations, service stations as well as backfilled quarries. Ground investigation, including chemical testing of any route close to these sites will be implemented to determine whether contamination exists. Where possible, route options will be selected to avoid or allow contaminated ground to remain un-disturbed. Any evidence of contamination shall be highlighted to the tenderers and incorporated within the preliminary health and safety plan, with possible remediation measures incorporated within the tender documentation.</i>	Yes
Work with ionising radiation requiring the designation of controlled or supervised areas (P)	✓				<i>It is not envisaged that work with ionising radiation will be employed on this project.</i>	N/A
Work near high voltage power lines (P)	✓				<i>The Baltrasna-Drybridge 110 kV and Baltrasna-Corduff 110 kV Transmission Lines traverses the study area. There is also further ESB Networks Infrastructure including MV, LV Overhead Line Infrastructure. Liaison with ESB will be ongoing through the route selection and preliminary design phases to determine whether conflicts with MV & HV powerlines exist. Consideration will be given to advance works contracts to divert overhead lines prior to the main construction contract commencing on site.</i>	Yes
Work exposing persons at work to the risk of drowning (P)	✓				<i>The route options will include a crossing of the River Hurley. As such there is the possibility of instream works and works adjacent to major watercourses which could put the person at risk of drowning. To mitigate against this risk, new bridges should clear span the waterways where possible to reduce instream works.</i>	Yes
Work on wells, underground earthworks and tunnels (P)	✓				<i>It is not envisaged that work on wells, underground earthworks or tunnels will be employed on this project.</i>	N/A
Work carried out in a caisson with compressed-air atmosphere (P)	✓				<i>It is not envisaged that work in a caisson will be employed on this project.</i>	N/A

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Work involving the use of explosives (P)	✓				<i>It is not envisaged that the use of explosives will be employed on this project.</i>	N/A
Work involving the assembly or dismantling of heavy prefabricated components (P)	✓				<i>The works may involve the construction of a structure crossing the River Hurley. It is envisaged that a smaller span arrangement will suffice for this river crossing, as such the potential structure will likely be constructed using precast beams and permanent formwork over the river.</i>	Yes
Confined Spaces	✓				<i>It is possible that the construction of the scheme will involve works within confined spaces. Design options to consider maximising the use of prefabrication.</i>	No
Construction Traffic	✓				<i>It is likely that a significant amount of construction traffic will be required for the construction of the works. If the preferred option is an offline solution, it is envisaged that the majority of the construction traffic will utilise a haul route within the site, with discreet access points from the national road network as required to facilitate the works.</i>	Yes
Railway	✓				<i>No current or historic railway lines are located within the study area.</i>	N/A
Demolition	✓	✓			<i>Demolition of properties cannot be ruled out at this stage. The nature of any buildings to be demolished will need to be ascertained to assess the risks and hazards..</i>	Yes
Flooding	✓				<i>The study area incorporates the Hurley River and Riverstown River and associated tributaries. The Flood mapping indicates that certain areas surrounding the aforementioned rivers are prone to flooding during extreme rainfall events. Appropriate mitigation and safety systems to be implemented by the contractor to minimise potential for flooding during the construction of the scheme and by the designer for the operational phase of the scheme. Details of flooding to be provided to the tenderers and incorporated into the Preliminary Health and Safety Plan.</i>	Yes
Live Traffic	✓				<i>The proposed development may involve the online upgrading of sections of the existing N2, as such traffic management measures will have to be implemented to ensure the operation of the N2 during construction.</i> <i>Offline options will interface with live traffic routes such as the R155 and R152. There may be the possibility of temporary closures of some local roads during the construction of the scheme.</i>	Yes

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Utilities - EirGrid	✓				<i>The East-West Interconnector underground HV cable crosses the south of the Study Area and extends along the R135 in proximity to the Ashbourne Retail Park, through Rath Roundabout and along the N2 before travelling west along the L50161.</i>	Yes
Utilities - Gas Networks Ireland	✓				<i>A high-pressure Transmission gas pipeline crosses the south of the Constraints Study Area and traverses the N2 in an east to west direction north of Rath Roundabout. The Aurora Telecom National Network also traverses the N2 in the same ducts as the high-pressure gas line.</i>	Yes
Utilities - Irish Water	✓				<i>Rath service reservoir is located adjacent to the Rath Roundabout at the southern end of the study area. This reservoir is the primary public water supply for the Ashbourne area and is fully operational. The facility contains the reservoir structure, water treatment facilities, water supply borehole, booster pumps, supply and distribution pipework and an electricity supply kiosk.</i>	Yes
Presence of Asbestos	✓	✓	✓	✓	<i>No presence of asbestos has been determined at this stage of the project.</i>	N/A
Security / unauthorised access	✓	✓			<i>Route options are likely to be fairly close to a number of settlements including Ashbourne, Curragha, Primarestown and Cushinstown. As such, it is possible that unauthorised access could be attempted. It is also possible that there will be other location specific risks / hazards associated with anti-social behaviour. Where any locations are identified appropriate measures should be put in place prior to and during the construction phase to avoid unauthorised access to the construction site.</i>	Yes