

Designers Risk Assessment

Design Discipline

Project Name	Concrete Repairs	Architect	
Client	Kerry County Council	M&E Engineer	MWP
Doc Number	25775-6011		
Date	September		
Rev	B		

MWP: Civil, Structural, Mechanical and Electrical

Note: This Design Risk Assesment has been prepared in accordance with the Safety, Health and Welfare at Work (Construction) Regulations 2013 Schedule 1 Particular Risks must be referred to.

Likelihood	Certain	5	Low	Medium	Significant	High	High
	Likely	4	Low	Medium	Significant	Significant	High
	Possible	3	Low	Medium	Medium	Significant	Significant
	Unlikely	2	Nominal	Low	Medium	Medium	Medium
	Rare	1	Nominal	Nominal	Low	Low	Low
			1	2	3	4	5
			Slight	Minor Impact	Considerable	Critical/Major	Catastrophic
			Impact				

Tag	POTENTIAL HAZARD	WHETHER PRESENT		RELEVANCE OF HAZARD TO THIS PROJECT	Severity / Impact Level	Probability / Frequency	Initial Risk Ranking	Design Processes & Controls to eliminate or reduce risk	Severity / Impact Level	Probability / Frequency	Residual Risk Ranking	Measures to be taken to further control residual risk	Action Owner	Due Date
	SCHEDULE 1 - PARTICULAR RISKS													
1	Work which puts persons at risk of falling from a Height	YES		Falling from a height can occur on this project in the following way: 1. When accessing foreshore; 2. When construction temp works; 3. When construction masonry. 4. When installing repairs; 5. When working on the pier deck;	4	4	16 Significant	1. Manholes to be designed where possible to work with site falls and depth to be kept to minimum requirements. 2. Permanent edge protection such as scaffold is to be used rather than fall arrest safety harnesses etc. 3. Safe methods of work, lifting plans and high reach equipment which does not require people to work at height are to be used where possible. 4. Full risk assessments and method statements (RAMS) are required to be agreed and delivered at early project stages to ensure safety measures that meet the PSCS's requirements can be implemented. 5. Close control of the works by MWP and the PSCS is required to constantly monitor the works and allow amendment of agreed works procedures, if necessary during the works.	4	2	8 Medium	Introducing safe systems of work Training and risk awareness for all required personnel Implementation and review of method statements, temporary and permanent works plans, lifting plans etc.	PSCS	
2	Work which puts persons at risk of burial under earthfalls	YES		Demolition of damaged concrete	4	4	16 Significant	Safe working space to be provided during excavations to allow for safe batters and clearance for machinery away from staff areas and the works areas. Methodology to include ongoing checking of survey monitoring stations to monitor likelihood of collapse. Fencing and	4	1	4 Low	Introducing safe systems of work Training and risk awareness for all required personnel Implementation and review of method	PSCS	
3	Work which puts persons at risk of engulfment in swampland	YES		Tidal site may encounter water. Control of site water during storm and high tides rainfall must be controlled by the Contractor.	3	3	9 Medium	Heavy storm events and Spring tides during deep excavations for JKW burial will need strict controls on water through the use of sumps/pumps/screening for JKW infestation.	3	2	6 Medium	Competent personnel. Safe systems of work, Training, implementation of method statements.	PSCS	Prior to commencement of works.
4	Work which puts persons at risk from chemical or biological substances	YES		It may be necessary to access manholes, existing services, excavations etc. Construction chemicals and materials will be used. Risk of Weils disease.	4	2	8 Medium	Working times in Piers are to be minimised and safe alternative construction materials are to be specified where possible. Suitable PPE to be worn for the handling of materials and chemicals.	4	1	4 Low	Safe systems of work, Training, implementation of method statements. Reinforce good hygiene practices to avoid Weils disease.	PSCS	
5	Work which puts persons at risk from ionising radiation		NO		0	0	0 None		0	0	0 None			
6	Work near high voltage power lines		NO		0	0	0 None		0	0	0 None			
7	Work which puts persons at risk of drowning	yes		Works are undertaken in Fenit Harbours from boat on pontoon	5	4	20 High	The works will be undertaken when the tide is away from the works. During high tides and wave action works shall not be undertaken if waves are reaching the work area. Appropriate PPE to be provided to personnel. Lifejackets to be worn when working above water, within 2m of the water's edge or in a water vessel. Safety harness to be used when working above water.	5	2	10 Medium	Safe systems of work, Training, implementation of method statements	PSCS	Prior to commencement of construction.
8	Work on wells, underground earthworks and tunnels		NO		0	0	0 None		0	0	0 None			
9	Work carried out by divers at work having a system of air supply		NO		0	0	0 None		0	0	0 None			
10	Work carried out in a caisson with a compressed-air atmosphere		NO		0	0	0 None		0	0	0 None			
11	Work involving the use of explosives		No		0	0	0 None		0	0	0 None			

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12	Work involving the assembly or dismantling of heavy prefabricated components and heavy lifting	YES		Application of Spray applied concrete and demolition equipment	2	2	4 Low	Ensure that a safe working space is available and maintained around work area. Lifting procedures are to take account of the site constraints and staff over the course of the construction works.	3	4	12 Significant	Introducing safe systems of work Training and risk awareness for all required personnel Implementation and review of method statements, temporary and permanent works plans etc.	PSCS	
				Other Risks Relevant to This Project Not Included in Schedule 1 - Particular Risks										
13	Existing services		NO		0	0	0 None		0	2	0 None			
14	Site access, egress and traffic management	YES		Site is located within busy working Pier with both road and marine traffic	4	4	16 Significant	Traffic management plan to be implemented. Site lines to be incorporated into the design for entry/exit points for the new development. Signage, Barriers, traffic diversion etc. for the connection of utilities.	4	2	8 Medium	Traffic management plan to be implemented. Construction site warning signage required. Ensure suitable levels of lighting and site lines for Construction Site Entrance/Exit. Ensure planning and traffic management for utilities connections.	PSCS	
15	Working in confined spaces		No		0	0	0 None		0	0	0 None			
16	Demolition and temporary works	YES		Temporary shutterings for the construction site. Demolition of existing Concrete	4	3	12 Significant	The contractor is responsible for employing a temporary works designer.	4	2	8 Medium	Introducing safe systems of work Training and risk awareness for all required personnel Implementation and review of method statements, temporary and permanent works plans etc. Use only competent personnel to carry out temporary connections.	PSCS	
19	Welding, grinding and cutting of construction materials	YES		May be required for the installation of reinforcement replacement	5	4	20 High	Prefabricated components to be used where possible. Only competent personnel to carry out welding, grinding, cutting. Fire watch procedure to be employed.	5	2	10 Medium	Introducing safe systems of work Training and risk awareness for all required personnel Implementation and review of method statements, temporary and permanent works plans etc.	PSCS	
20	Manual handling	YES		All aspects of materials distribution and construction activities.	4	4	16 Significant	Items to be designed for mechanical lifting. Use mechanical lifting means instead of manual handling where possible. Employ good manual handling practices. Components to be in manageable sizes for manual handling. Request assistance. If too heavy do not lift.	4	2	8 Medium	Introducing safe systems of work Training and risk awareness for all required personnel Implementation and review of method statements, temporary and permanent works plans etc.	PSCS	