

Electrical Designer Risk Assessment

Project Royal Cornwall Museum
Issue 1
Date Aug-23



RISK SCHEDULE													
General Construction Risks													
Item	Risk / Hazard	Consequence	Scheme Specific Risks	Party At Risk	S	L	R	Mitigation Measures	Alternatives	OUTCOME	S	L	R
01	Working at height.	Risk of falling from height. Risk of dropping materials from height.	Working at height and risk of dropping materials.	General Public Site Operatives	5	2	10	All works to be undertaken in accordance with the Working at Height (Amendment) Regulations. All scaffolding is to be installed and tested in accordance with approved procedures. The Contractor shall provide safe working surfaces / platforms complete with safety rails / harness fixing points to enable safe working at height.	None considered.	Risk Reduced	3	1	3
02	Live services or services which could become live.	Risk of electric shock, scalding, burns, etc. Disruption to operation of associated systems and facilities.	Connection of electrical equipment and/or cabling into existing distribution systems.	General Public Site Operatives	4	4	16	Trained and competent operatives. Safe isolation and lockout procedures to be implemented.	None considered.	Risk Reduced	4	2	8
03	Working near to or adjacent to live traffic or general movement of site vehicles and plant.	Risk of obstruction or striking moving vehicles, risk of site operatives being stuck by plant and machinery.	Working adjacent to live farm area and pathways including movement of site traffic.	General Public Site Operatives	4	3	12	Contractors safe method of working. Implementation of signage, pedestrian routes and traffic management plan. Adequate hoarding to be provided. High visibility clothing to be worn by all operatives and site visitors.	Avoid traffic movement on site where possible.	Risk Reduced	3	2	6
04	General public or building occupants trespassing onto site.	Risk of injury from slips, trips, falls, falling from height, uncovered trenches.	General construction site activities. Access to subway and cable draw pits.	General Public Site Operatives	4	3	12	Ensure site is secure and inform general public of site boundaries. Provision of adequate signage and diverted walkways and access routes where required.	None considered.	Risk Reduced	2	2	4
05	Working close to or above statutory undertakers equipment.	Damage to existing services which may result in electrocution, explosion or major water leak.	The known services are the electrical supply from National Grid and water supply from South West water. No other services identified.	General Public Site Operatives	5	3	15	Consultation with statutory undertakers to determine the location of any major services. Contractor to clearly identify and mark the location of services prior to any excavation. Adequate preventative measures to be put in place to minimise the likelihood of impacting or damaging services (e.g. height restrictions, weight restrictions, hand excavation, etc.)	None considered.	Risk Reduced	2	2	4
06	Buried services.	Damage to existing services which may result in electrocution, explosion or major water leak.	Unidentified buried services.	General Public Site Operatives	5	3	15	Buried services scans to be undertaken as required. Contractor to clearly identify and mark the location of services prior to excavation.	None considered.	Risk Reduced	2	2	4

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07	Working in close proximity to overhead services.	Risk of coming into contact with high voltage electricity.	No scheme specific risks identified.	-	-	-	-	Use of appropriate mitigation measures such as height restriction barriers. Agreed shutdowns and safe methods of working.	-	No Change	-	-	-
08	Effects of noise, dust and vibration.	General annoyance to public and adjacent buildings. Risk of health issues to construction site operatives.	General construction site activities.	General Public Site Operatives Adjacent Buildings	2	4	8	Contractor to determine safe methods of working through construction methods and sequences. Site staff to be provided with appropriate PPE relative to their nature of work. Work may also be undertaken at specific times in sensitive areas to minimise disruption.	None considered.	Risk Reduced	2	2	4
09	Trips, slips and falls.	Risk of trips, slips and falls.	General construction site activities.	General Public Site Operatives	3	3	9	Contractor to determine safe methods of working through construction methods and sequences. Site to be kept clean and materials to be stored correctly. Waste management plan to be implemented.	None considered.	Risk Reduced	2	2	4
10	Protruding services, supports and brackets.	Risk of impact and impaling.	General construction site activities.	General Public Site Operatives	3	3	9	Contractor to determine safe methods of working through construction methods and sequences. Protection to be provided for protruding supports and brackets.	None considered.	Risk Reduced	3	2	6
11	Asbestos	Exposure to asbestos, asbestos containment materials (ACMs) or asbestos dust.	Working in existing building.	Site Operatives	5	2	10	Contractor to refer to asbestos register. Contractor to ensure appropriate PPE and control measures are in place to protect personnel against asbestos.	None considered.	Risk Reduced	1	2	2
12	Bird droppings and rodent infestation.	Exposure to bird droppings and rodents.	Working in the existing building.	Site Operatives	2	3	6	The Contractor shall brief employees on the potential dangers. The Contractor shall assess the work required and the condition of the work area and ensure appropriate PPE, control measures and procedures are in place to prevent contact within infested areas.	Consider undertaking environmental cleaning prior to works commencing.	Risk Reduced	1	2	2
13	Movement of equipment and materials on and off site.	Collision with materials, materials blocking access and escape routes.	Construction site activities, deliveries and collections.	General Public Site Operatives	3	5	15	The Contractor shall supply suitable mechanical handling measures for movement of equipment and cabling.	None considered.	Risk Reduced	1	4	4

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14	Concurrent works.	Works undertaken by others or third parties in the vicinity of the site.	Other concurrent works within the working area.	General Public Site Operatives	4	5	20	Coordination between projects. Clear demarcation of site boundaries. Roles and responsibilities defined under CDM Regulations.	None considered.	Risk Reduced	2	2	4
KEY													
Risk Severity (S): 1 - Insignificant, 2 - Minor, 3 - Moderate, 4 - Major, 5 - Catastrophic													
Risk Likelihood (L): 1 - Very Low, 2 - Low, 3 - Possible, 4 - Likely, 5 - Very Likely													
Risk Rating (R): R < 8 - Low Risk, 8 < R < 15 - Medium Risk, 15 < R - High Risk													
NOTES													
1) This assessment has been produced to identify key risks at the design stage and is provided for guidance only.													
2) Compliance with this risk assessment does not alleviate the Contractor or any third parties of their responsibilities, including their duties under the Construction (Design & Management) Regulations 2015.													
3) It is assumed that all works will be undertaken by competent, suitably qualified, experienced and accredited Contractors who will take appropriate measures to manage risks during the construction period.													
4) The risks identified on this assessment should not be considered exhaustive.													
5)													