HASSETT LEYDEN & ASSOCIATES

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Hazard Identification and Design Risk Assessment

Discipline:	Architecture		
Project:	Refurbishment of Willow Unit, St Josephs Hospital, Ennis, Co Cla	Planning:	
Client:	HSE	Tender:	X
Project No:	2825	Construction:	
PSDP:	Max Kraus	Maintenance:	
Date:	27/10/2026		

Assessment of Hazard (Severity)
5 - Death (death/multiple deaths)
4 - Long-term health consequence (disabling injury /chronic illness)
3 - Short-term health consequence (restricted work activity, strain/sprain)
2 - No significant health & safety consequence (first-aid)
1 – No health & safety consequence

Assessment of Risk (Likelihood):
5 – Highly likely
4 - Probable
3 - Possible
2 – Remote, Unlikely
1 - Highly unlikely (near negligible)

SEVERITY	1	2	3	4	5
5	M	M	H	H	H
4	M	M	M	H	H
3	L	M	M	M	H
2	L	L	M	M	M
1	L	L	L	M	M

LIKELIHOOD

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A)	Particular Risks as set out in Schedule 1 of Safety, Health & Welfare at Work (Construction) Regulations, 2013.										
1a	Working at height	Injury due to falling from a height	3	2	M	Site specific RAMS detailing safe means of work for tasks which put persons at risk of falling from height shall be prepared by the contractor. Contractor is to follow the HSA General Principles of Prevention for Managing Risks from Working at a Height	2	2	L	Contractor Maintenance	All works carried out at a height are to be from a safe, stable and guarded platform. No works at height are to be carried out from a ladder or other item to give access.
1b	Entrapment / burial due to sudden collapse of excavation banks.	N/A			L				L		
1c	N/A	Engulfment in swampland				N/A					

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2	Risk from chemical or biological substances.	Substances which pose a danger to the safety and health of persons.	4	3	M	Such substances should only be used where their use is deemed unavoidable.	3	1	L	Contractor General Public	Written risk assessments are to be carried out by a competent person to determine the appropriate control procedures to be put in place. Any control procedures to be included in the Site Specific Safety Plan. MSDS to be supplied for all such materials, kept on site, & included in the Site Specific Safety Plan.
3	Works with Ionizing Radiation	N/A									
4	Work near high voltage power lines.	N/A			H				M		
5	Work exposing persons at work to the risk of drowning.	N/A			L				L		
6	Work on wells, underground earthworks and tunnels.	N/A				N/A					N/A
7	Work carried out by divers at work having a system of air supply.	N/A				N/A					N/A

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8	Work carried out in a caisson with a compressed-air atmosphere.	N/A				N/A					N/A
9	Work involving the use of explosives.	N/A				N/A					N/A

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10	Work involving the assembly or dismantling of heavy prefabricated components. E.G. Sections of the precast concrete manholes, attenuation tanks, concrete pipes, roof trusses etc.	Injury due to items heavier than appear. Incorrect lifting method, lack of mechanical handling equipment, lack of assistance for heavy load, lack of protective footwear, sharp edges, lack of supervision, lack of on site planning	5	3	H	It is considered that working with heavy prefabricated components is a normal hazard to be encountered by a competent contractor and no other specific or special design responses are deemed necessary.	4	2	M	Contractor	All items to be marked with weight.Contractor to provide mechanical handling equipment to move items which cannot be safely man handled. Safety footwear to EN ISO 20345 and protective Kerlor and rigger gloves must be worn. Complete planning and supervision of each operation must be provided by the contractor.
B)	Risks in addition to those set out in Schedule 1 of Safety, Health & Welfare at Work (Construction) Regulations, 2013.										
11	Heavy machinery used close to the general public.	Risk from traffic – site access	5	3	H	The main contractor & PSCS are to prepare a site specific Temporary Traffic Management Plan in agreement with the Local Authority. Works on and immediately adjacent to the public roads are to be carried out outside of peak traffic times & in agreement with the Local Authority. Vulnerable road user crossings & emergency vehicle access are to be maintained at all times by the Contractor through all works areas. It is considered that working adjacent to busy public roads is a normal hazard to be encountered by a competent contractor & no other specific or special design responses are deemed necessary.	5	1	M	Contractor Public	The Contractor should plan for each works zone with provision for safe movement of machinery & traffic. Construction traffic should use designated entry/egress points to enter public spaces and along designated access routes to the site, with suitable barriers / fencing around work zones and associated warning signs & active traffic management. Construction vehicles and machinery should be in good working order, with flashing beacons & reversing warning alarms

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12	Heavy machinery used close to the general public.	Risk from traffic –service connections & road upgrades.	5	3	H	Refer to Item 11.	5	1	M	Contractor Public	Refer to Item 11. When working close to existing premises adequate signage shall be used to warn people of hazards & the construction site. Works area to be defined with fencing.
13	Use of Paint Spraying Equipment	Danger of inhalation of fumes from site spraying or painting	4	3	M	Wherever practical, paint to be applied offsite. It is considered that the application of spray paint is a normal hazard to be encountered by a competent contractor & no other specific or special design responses are deemed necessary.	3	3	M	Contractor	Contractor must use low fume materials where available & provide COSHH data on all materials used. Contractor to provide PPE & any necessary protection & extraction necessary to comply with the COSHH Regulations
14	Use of Percussion Drill/Angle Grinder or Hand Tools components.	Damage to hearing by percussion drilling or accident while using angle grinder/hand tools.	4	3	M	Due to the nature of the works the use of such tools cannot be elininated entirely. Where possible non-percussive drills should be used wherever practical to reduce the risks from noise and vibration.	4	2	M	Contractor	Contractor to observe Principal Contractors disciplines for noisy works & ensure full compliance with the Control of Noise at Work Regulations 2005. Contractor to ensure all staff using or working near percussion drilling equipment/angle grinders etc. are equipped with suitable ear defenders/protective equipment and have been instructed on their correct use. All portable appliances to be tested and marked with valid PAT certification. Unless battery powered or hand tools are employed, a residual current earth leakage device (RCD) designed to EN 61008-1 must be used

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15	Dust	Injury to eyes and / or lungs due to presence of dust.	4	3	M	Refer to HSA website & Information Sheet on Crystalline Silica Dust Contractor to minimise the use of dust producing products during works.	3	2	M	Contractor	RAMs to be prepared. Safe systems of work and dust suppression systems to be used. Proper PPE to be used.
16	Use of Welding / Grinding Equipment	Danger of fire due to dry grinding or welding on site	4	3	M	Principal Contractor to establish regime of Hot Works including Hot Work Permits. Due to the nature of the works the use of such tools cannot be eliminated.	4	2	M	Contractor	Contractor to ensure site staff are aware of procedures & work to them. Contractor to provide all necessary PPE, safety & fire precautions, certified as necessary & ensure they are maintained throughout the Hot Work process. As a minimum, fire extinguishers must be readily available & members of the public & other non-essential staff excluded from the agreed work area. If gas welding equipment is used it must be inspected prior to use for damage to valves, hoses & for leaks & must not be used if defective. The work area must be well ventilated & nay smoke detectors temporarily disarmed.

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17	Disconnection of existing electrical services	Electrocution or explosion due to utilities not been properly disconnected	5	3	H	Site specific RAMS detailing safe means of works for working in close proximity to existing underground and overground live power lines shall be prepared by the contractor. Scanning for services and hand digging (with non-conductive tools) slit trenches are to be carried out by the contractor to verify the exact location of any existing underground services prior to carrying out machine excavations to mitigate against the risk of contact with services. Contractor to refer and adhere to the ESB CoP for Avoiding Danger from Overhead Electricity Lines and the HSA CoP for Avoiding Danger from underground Services. Encountering live electrical services is a normal hazard expected to be encountered by a competent contractor on a normal site and no other specific or special design responses are deemed necessary. Refer to Service Engineer's DRAs.	5	2	M	Contractor	All potential hazards to be clearly identified for isolation / disconnection before works commence.
18	Works associated with working in a confined space.	Toxic atmosphere, oxygen deficiency, oxygen enrichment, flammable or explosive atmospheres, excessive heat.	4	3	M	Principal Contractor to identify hazards and carry out a Risk Assessment before work commences. Contractor is to refer and adhere to the HSA guide to working in Confined Spaces. All personnel carrying out works adjacent to the existing foul network must have confined space training. It is considered that works associated with working in a confined space is a normal hazard to be encountered by a competent contractor and no other specific or special design responses are deemed necessary.	3	2	M	Contractor Maintenance	Contractor is to ensure a system of work is in place and that anyone entering a confined space has been provided with appropriate information, training and instruction appropriate to the particular characteristics of the proposed work activities. Contractor is to also put in place emergency arrangements in case of incident.

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19	Falling equipment: Delivery of materials	Risk of injury.	5	3	H	It is considered that risks associated with delivery of materials is a normal hazard to be encountered by a competent contractor and no other specific or special design responses are deemed necessary.	5	2	M	Contractor	Ensure that all works areas are fenced off so that any falling objects or material being used does not fall outside the works area. Ensure that any materials being brought in or out of the site are well secured on vehicles leaving and entering the site. All personnel are to wear proper PPE.

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20	SARS-CoV-2	Spread of COVID-19 on the Construction Site.	5	3	H	Design action to eliminate / mitigate risk not possible.	5	3	H	Contractor	All Contractors must comply with HSE & Government Guidelines with regard to physical distancing & other COVID 19 measures. The latest HSE, HSA & Dept. of Health advice & guidance should be followed to identify & implement suitable control measures to mitigate the risk of COVID-19 infection in the workplace. These public health measures should be communicated to all relevant employees & others at the place of work. Contractors must also comply with the National Return to Work Safely Protocol, “COVID-19 Specific National Protocol for Employers and Workers”.

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21	Bursting of pipes during Pressure Testing.	Risk of injury.	5	3	H	Where pressure testing of pipes is required it is to be carried out by competent personnel. Refer to Service Engineer's DRAs.	5	2	M	Contractor	As all pipelines for water, foul effluent & surface water have to be tested a detailed Method Statement should be provided by the contractor. Any watermain pipe trench should be partly backfilled & the pipe surcharged with adequate material to retain the pipe in the trench if there is any explosion or catastrophic release of air or water pressure from the pipe lines being tested. Testers are to ensure that adequate clearance is allowed for the test area & that that the test area is adequately defined.

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4	M	M	M	H	H
3	L	M	M	M	H
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22	Falling objects; Equipment or Materials	Injury due to falling objects; equipment or materials	3	2	M	It is considered that risks associated with falling materials is a normal hazard to be encountered by a competent contractor and no other specific or special design responses are deemed necessary.	2	2	L	Contractor Maintenance	Ensure that all works areas are fenced off so that falling objects or material used on elevated working areas or platforms do not fall outside the fenced works area. Aadequate precautions must be taken, when persons are working at height, as a control against falling objects e.g., use of tool belts, strict adherence to site housekeeping rules, etc. In addition, the following must be addressed: • Safe systems must be used to place materials in position & for the removal of waste • Tools & materials must be lowered & not thrown from scaffolds or from a height. • Guard rails & toe-boards must be provided around all edges to prevent falling objects • All materials must be stacked & laid out to prevent their collapsing or overturning • All personnel on site must wear adequete PPE

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23	Works within an active campus.	Risks associated with non-construction personnel coming into contact with construction activities. Risks associated with contamination of areas outside the works area.	5	3	H	Works area to be isolated during works.	5	2	M	Contractor Maintenance Staff Public	Principal Contractor to identify hazards and carry out a Risk Assessment before work commences. Contractor is to ensure that all construction activities which are carried out which may encounter non-construction personnel are properly supervised and have adequete signage and warnings. Measures to be taken to isolate the works areas from the remainder of the facility.
24	Works on roof during high winds, frost, wet or other weather conditions that make working on roof hazardous.	Falls from a height.	5	3	H	It is considered that risks associated with working on roofs is a normal hazard to be encountered by a competent contractor and no other specific or special design responses are deemed necessary.	4	3	M	Contractor	Contractor is to cease works during high winds, frost or other adverse weather conditions that make working a hazard.
25	Vibration	Injury due to excessive noise. Damage to property due to vibrations.	4	3	M	Use of vibration causing tools to be kept to a minimum.	3	3	M	Contractor	Contractor to keep vibritations to a minimum to avoid damage to adjoining properties and to personnel on site.
26	Loose Material, Flying Objects	Injury due to flying objects.	5	3	H	Materials are required on site so risk cannont be eliminated..	4	3	M	Contractor	Ensure that any materials being brought in or out of the site are well secured on vehicles leaving and entering the site. Ensure workmen are wearing adequate safety gear.

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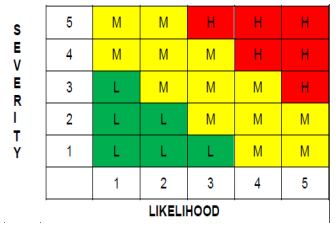

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27	Lifting Materials onto roof	Injury due to transfer of materials or materials stored incorrectly.	5	3	H	It is considered that risks associated with lifting materials onto roofs is a normal hazard to be encountered by a competent contractor and no other specific or special design responses are deemed necessary.	4	2	M	Contractor	Activity should be planned beforehand. If materials are to be brought through the building permission should be obtained from the client. Cranes shall be operated by qualified operators and shall only be operated in suitable weather conditions. Secure all materials on the roof to ensure they do not get blown off.
28	Trespassing	Injury damage caused by non contract personel accessing site.	5	2	M	Risk cannot be avoided or eliminated by design.	5	2	M	Public	Works are to be fully secured at all times.
29	Temporary Support / Demolition	Injury due to inadequete temporary supports.	5	3	H	Site specific RAMS detailing safe means of works for temporary supports / demolitions shall be prepared by the contractor.	5	4	M	Contractor	Temporary supports to be designed by Contractor's Engineer who is to ensure the structure is safe at all times during the works.
30	Defective Equipment / Machinery	Injury due to defective equipment or machinery.	5	3	H	Risk cannot be avoided or eliminated by design.	5	3	H	Contractor	All equipment and machinery must be checked before use and defective equipment and machinery should not be used.
31	Slips & Trips	Injuries due to slips and trips.	5	3	H	Risk cannot be avoided or eliminated by design.	5	3	H	Contractor	Ensure that site is kept clean and tidy at all times to reduce risk of slips and trips.
32	Access ladders	Injuries caused by inadequete securing and use of access ladders.	5	3	H	Refer to HAS 'Using Ladders Safely' information sheet.	5	3	H	Contractor	Risk assessment to be carried out before work begin.
33	Compaction of hardcore & use of vibrating compactor within the trench.	N/A			M				M		

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34	Working in or near water	N/A			M				L		
					L	N/A			L		
35	Asbestos containing materials	Serious ilness	4	5	H	Refer to HSA Guidelines on ACM Management and Abatement.	3	3	M	Contractor	Asbestos anywhere within the bounds of the site it must be removed and disposed of in accordance with HSWW Regulations 2006., 2001 and 1998).

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36	Risk Associated with Lifting Operations.	N/A			H				M		

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37	Flooding	N/A			H				M		

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38	Works in live traffic	Injuries, fatalities or damage caused by interaction with live traffic.	5	3	H	The main contractor & PSCS are to prepare a site specific Temporary Traffic Management Plan. Works on and immediately adjacent to the public roads are to be carried out outside of peak traffic times and in agreement with the Local Authority. Vulnerable road user crossings and emergency vehicle access are to be maintained at all times by the Contractor through all works areas. It is considered that working adjacent to busy public roads is a normal hazard to be encountered by a competent contractor and no other specific or special design responses are deemed necessary.	5	2	M	Contractor Public.	All utilities shall be located where possible in the footpath or near the road edges to limit interactions with live traffic during construction and maintenance. The Contractor will plan the arrangements for each works zone to provide suitable protection from and for live traffic. The Contractor will agree TTM (in accordance TSM) with the local authority and relevant stakeholders.
39	Demolition works	• Falls from height • Injury from falling materials • Uncontrolled collapse • Risks from connected services • Traffic management • Hazardous materials • Noise and vibration • Fire	5	3	H	Due to the nature of the project demolition works are required during the works.	5	2	M	Contractor Public	Refer to Preliminary Health and Safety Plan. The HSA Safe System of Work Plan (SSWP) Guidelines and Construction Form 3 (Demolition) should be used.

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40	Rodents / Vermin	Injury / disease due to contact with rodents / vermin.	5	3	H	Risk cannot be avoided or eliminated by design.	5	3	H	Contractor Public	Contractor to ensure that adequate PPE is provided for all personnel working on project and that all necessary cleaning / disinfecting measures are taken to mitigate against the risk of exposure to rodents / vermin. **Weil's Disease:** Adhere to a rigid hygiene policy. Cover all cuts, scratches and abrasions with a waterproof dressing. • Wash cuts and grazes immediately with soap and running water and cover all cuts and broken skin with waterproof plasters before and during work. • Wear protective clothing especially gloves when handling soil, vegetation, animal feeds, tools or equipment that may be contaminated. • Wash your hands after handling any animal, or any contaminated clothing or other materials and always before eating, drinking or smoking • Avoid touching mouth and nose. Food stuffs should not be consumed in the work area Contractor is to ensure that adequate PPE is provided for all personnel working on project and that all necessary and appropriate cleaning / disinfecting measures are available on site during the works.

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41	Tree Felling	N/A	5	3	H	Exclusion zones to be established during felling. A Felling Plan should be devised before works begin including slope management, an escape plan and the creation of 'dead zones'. . Mechanical assistance (winches, wedges etc) should be used where necessary. An electrical plan should be devised where necessary before works commence and be coordinated with the utility provider.	5	2	M	Contractor	Professional tree surgeons to be employed to remove trees and tree stumps. Machines to have reversing warning sounds & camera to see blind spots. Appropriate traffic management should be employed by the contractor during such works. When working close to existing boundaries adequate signage shall be used to warn people of hazards & the construction site. Ensure that all works areas are fenced off so that any falling objects or material does not fall outside the works area. Risk Assessments and Method Statements to be carried out and submitted for approval before works commence. All mechanical equipment should have valid and up to date inspection certs.
Note:	Refer to Service Engineer's Risk assement for items relevant to mechanical and structural engineering.										
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