Project:	Project No.:	Completed By:	Date:	Issue:
Proposed 64 Unit Housing Development At Lawn Rd, Castlebar, Co Mayo	**A637**	**David Lavelle EA**	**23.07.2026**	**Tender**

No	HAZARD	Risk Rating (refer to matrix)			Persons Who May Be Affected	Risk Control Measure to Be Undertaken in Order to Eliminate Hazard / Reduce Risk To An Acceptable Level.	Residual Risk Rating (refer to matrix)			Information / Control of Residual Risk / Particular Risks	Information to Be Included In	
		L	S	H M L	Maintenance Construction Users Others M C U O	Comment /Design Intervention	L	S	H M L	Comment /Design Intervention	PS&H Plan	Safety File
1.	**BURIAL UNDER EARTH FALL**	3	4	H	C	It is not possible to eliminate this particular risk as works involve extensive excavations and removal of existing material off site. Excavations may be unstable due to the nature of the ground. Minimise depth of excavations where possible. Batter side slopes. Mechanically excavate where possible and limit manual operations to excavated areas. Sides of excavations to be cordoned off and protected as necessary by Contractor, refer to HSA's "Guide to Safety in Excavations". Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments.	2	4	M	Construction management / Control measures required. Contractor/Temporary Works Designer to provide Risk Assessment for reduced level dig and drawing indicating areas of risk. PSCS to liaise with design team and inform of any implications to surrounding operations. The use of sumps and pumping may be necessary to maintain dry excavations. The close proximity of existing buildings, roads and services should be noted, excessive pumping is likely to cause settlement or movement of the structures. All excavations e.g. for gardens, new stone build up under building foundations, boundary walls, retaining walls and fence foundations, trenches for new underground services, sewer pipes etc. all to be shored / side supported as necessary by the Contractor. Contract or to engage the services of a chartered consulting engineer to design for the temporary stability of all elements or structures in proximity to demolition or excavation works to be retained in-situ. Temporary Works Certificates to be provided for all such elements of work.	✓	✓
2.	**WORKING IN OR NEAR EXCAVATIONS**	3	3	M	C	Refer to Site Investigation Reports - Extensive excavations and removal of existing material will be required. Backfilling will be required in stone compacted in layers to build up to foundation / ground levels. All excavations e.g. for gardens, new stone build up under building foundations, boundary walls and fence foundations, trenches for new underground services, sewer pipes etc. all to be, shored / side supported as necessary by the Contractor. Sides of excavations to be cordoned off and protected as necessary by Contractor, refer to HSA's "Guide to Safety in Excavations". Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments.	3	3	M	Contractor to put control measures in place to provide for safe working. Any excavation in excess of 1 metre below adjoining ground level to be highlighted by contractor / PSCS in writing. PSCS to liaise with design team and inform of any implications to surrounding operations. Contractor to cordon off all excavations to prevent public or unauthorised access. Contract or to engage the services of a chartered consulting engineer to design for the temporary stability of all elements or structures in proximity to demolition or excavation works to be retained in-situ. Temporary Works Certificates to be provided for all such elements of work.	✓	✓

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3.	**FALLING FROM HEIGHT (AGGRAVATED BY CONDITIONS)**	3	4	H	C, O	Once bulk excavation of the site is carried out embankments will be created to the north west and north of the site with smaller embankments along new roads & boundaries. The exact locations of the boundaries are to be agreed onsite once the site is cleared and existing trees / scrub are removed. During the course of the construction there is a risk of falling from a height e.g., works adjacent to excavations, erection of formwork and scaffold, erection of trusses, work on or near edges of floors, roofs & stairs. Works requiring use of ladder of scaffold etc. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments.	2	4	M	Contractor to put systematic and collective control measures in place along embankments until permanent boundaries are in place. Construction Management Plan and Traffic Management Plan to address the presence of the sloping embankments in terms of traffic, plant and personnel operating in the vicinity. Contractor to ensure all works involving working at heights are carried out by personnel with the appropriate training and certification to carry out such works and that all necessary scaffolding, harnessing, and PPE is provided, with priority to collective protective measures over individual protective measures, for operatives.	✓	✓
4.	**UNDERGROUND SERVICES**	4	4	H	C	It is unknown if existing live services run across the site. Utility drawings are "indicative only". Prior to commencing any works contractor to Survey, identify services, and establish depth and condition of all services prior to commencement of works. Isolate live services and prepare for new connections. Contractor should undertake CAT scan to confirm accuracy of information recovered. Extreme care to be taken regarding service tunnel to the north of the site. This carries vital services for the town of castlebar. The area above the tunnel and the offset area of protection to be maintained to ensure no undermining of structural integrity of damage to services. Access to tunnel by qualified personnel and accompanying all up to date health and safety guidelines and PPC. Refer to services maps and drawings from Utilities providers. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	3	4	H	Contractor to survey for underground services in the vicinity of the works. Contractor to provide method statement prior to commencing works. Contractor to liaise with utility provider to establish locations and method for carrying out works. Contractor to identify and inform PSCS of any additional services. Contractor to ensure protection of existing services for retention and the safe removal / disposal of those scheduled for demolition including any / all services to be located and diverted in accordance with the HSA COP. PSCS to liaise with design team and inform of any implications to surrounding operations. PSCS to provide risk assessment for diversion of services and method statement for interim arrangements to avoid disruption to adjoining uses. PSCS to take cognisance of Irish Water's Designer's Risk Assessments.	✓	✓
5.	**OVERHEAD SERVICES**	3	4	H	C	<u>Overhead power lines currently traverse the site to the south of the site and are to be diverted. This is to commence as soon in the process as possible to remove this risk.</u> Prior to commencing works contractor to Identify and establish location and condition of all services. Refer Building Services Engineer Risk Assessments. Depending on the relocation of the lines and the provision of new overhead / underground lines a residual risk will remain for inclusion in the Safety File. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	2	L	Contractor to liaise with utility provider to establish locations and method for carrying out works. Contractor to ensure protection of existing services to be retained and the safe removal / disposal of those scheduled for demolition including any / all services to be relocated and diverted. Contractor is referred to ESB guidelines "Code of Practice for Avoiding Danger from Overhead Electricity Lines". Risk Assessed Method Statement (RAMS) to be carried out for all works on or near existing services.	✓	✓

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6.	**WORK ON OR NEAR EXISTING BOUNDARIES / RETAINING WALLS**	2	4	M	C, O	Contractor to take cognisance of the existing site boundaries. Existing boundaries should not be undermined or support to adjoining lands reduced due to the works. Contractor must maintain boundary at all times between site and laneway to rear of McHale park to protect residents and neighboring property. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	2	L	Care to be taken to provide all necessary temporary supports / propping /guarding as required.	✓	✓
7.	**WORK ON OR NEAR EXISTING STRUCTURES**	2	4	M	C, O	Ensure protection of boundary walls /adjacent buildings and maintain all existing access and escape routes. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	2	L	Contractor to protect the health and safety of all occupants of adjacent buildings.	✓	✓
8.	**UNDERMINING EXISTING FOUNDATIONS**	2	4	M	C, O	Contractor to take cognisance of the existing boundary wall foundations on site, their condition, position, and depth and keep the structural engineer appraised of the above at all times. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	3	L	Care to be taken to provide all necessary temporary supports / propping as required. Building contractor to provide method statement to PSCS prior to commencing works. PSCS to liaise with design team and inform of any implications to surrounding operations. Any excavation in excess of 0.5 metre below adjoining ground level to be highlighted to PSCS in writing.	✓	
9.	**OVER GROUND SERVICES / EXISTING SERVICES / PLANT**	3	4	H	C, O	Contractor to isolate any existing mechanical, electrical or plant services prior to carrying out any works on the installations. There are existing street lighting, an Existing ESB sub station electricity poles, and overhead power lines bounding the site. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	4	M	Contractor to isolate any mechanical, electrical or plant services prior to carrying out any works on or connection to services installations. Existing ESB supply to be isolated prior to connection works, cordon off same to safe distance and coordinate with ESB as required.	✓	✓
10.	**WORKING WITH/IN VICINITY OF ELECTRICITY/HIGH VOLTAGE POWER LINES**	3	4	H	C, O	Contractor to take cognisance of a and highlight high voltage power lines on site, cordon off same to safe distance and co-ordinate with ESB as required. Overhead lines at the proposed site entrance to be clearly marked with bunting Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	3	3	M	Any new services encountered which have not been highlighted previously are to be immediately reported to the permanent works designer & PSDP before the works progress. Refer to the Code of Practice of Avoiding Danger from Underground Services published by HSA. Reference should also be made to the "Avoidance of Electrical Hazards when digging" and "Avoidance of Electrical Hazards when Working Near Overhead Electric Lines" published by ESB to mitigate the risks. Contractor to highlight any high voltage power lines encountered on site, cordon off same to safe distance and co-ordinate with ESB as required.	✓	✓
11.	**DEMOLITION WORK**	3	4	H	C, O	Ensure any required demolition works are carried out at safe distances using recommended health and safety procedures. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	3	3	M	Contractor to ensure that any areas to be demolished are sufficiently cordoned off before works begin. Contractor to ensure demolition works are carried out by competent specialist/contractor at safe distances using recommended health and safety procedures. Care to be taken to provide all necessary temporary supports / propping when undertaking any / all demolition works to eliminate Risk of collapse causing injury. Contractor to prepare a Method Statement for sign off by the PSCS on hoisting heavy components.	✓	✓

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12.	**INSTALLATION OF SCAFFOLDING / COLLECTIVE PROTECTION NEEDED**	3	4	H	C, M	Employ off site assembled components for items such as roof trusses / stairs and consider prefabrication generally so that subassemblies can be erected at ground level and then safely lifted into place to reduce the requirement or duration for scaffolding and working at height. Refer Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	4	M	All scaffolding work shall be carried out in accordance with the HSA Approved Code of Practice for Access and Working Scaffolds. Scaffolds to be designed, erected, altered and dismantled only by competent persons and the work carried out under the direction of a competent supervisor. During erection or dismantling ensure that partially assembled structure or components are adequately supported - Temporary floors, decking, floor openings or formwork to be capable of supporting a uniformly distributed live load and to safely withstand any loads likely to be imposed on them. Workers delivering materials to or working on a temporary floor, decking, floor opening cover or formwork must be aware of the safe carrying capacity of the surface and of precautions necessary to prevent overloading.	✓	✓
13.	**ROOF ACCESS**	3	4	H	C, M	Considerable roof heights when buildings get to finished level, the slate roofing, the multiple dormer windows that will require finishing and the balconies at high level means it is not possible to eliminate risk in the design. A safe working platform with physical safeguards & temporary edge protection - guard-rails, toe boards, and barriers will be required at roof level. Ladders should only be considered where the use of other more suitable work equipment are not appropriate. When used ladders should be; positioned so that over reaching is not necessary, secured at the top, be placed on a firm level base and inspected as part of the regular inspection of scaffolding on the site.	2	3	M	All roof work shall be carried out in accordance with the HSA Approved Code of Practice for Code of Practice for Safety in Roofwork. A specific method statement to be prepared by the roofing contractor. Access arrangements and fall protection is to be determined during the design stage and implemented at the commencement of work. Main contractor to provide all scaffolding and agree arrangements for lifting materials. All ladders used to access the roof are to be checked and be in good condition and properly secured to prevent movement. Proper arrangements to be made for taking materials to the roof to prevent them from falling on employees working below. All materials on the roof to be secured to prevent them from falling. Employer to ensure maintenance personnel accessing the roof are adequately trained, experienced and competent to carry out the maintenance work.	✓	✓
14.	**CONFINED SPACE WORK**	3	3	M	C	This risk is present if works are required in deep excavations and manholes. Manhole depths and depths of excavations have been minimised as far as practicable. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	2	L	A system of work must be in place that has been planned, organised, performed and maintained so as to render that work safe and without risk to health carried out in accordance with the HSA COP. Care to be taken to provide all necessary temporary supports / propping when undertaking works all necessary scaffolding, harnessing and PPE is to be provided for operatives.	✓	✓
15.	**CHEMICAL HAZARDS**	3	4	H	C	Minimise use of hazardous materials as far as possible in specification. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	3	M	Chemicals will be used for flushing & pressurisation of water pipework. Cement, concrete sealants, and chemical resins etc. are to be used. Contractor to ensure persons carrying out works have appropriate training necessary and adequate PPE. Hand Sanitizers should be provided onsite. Data Sheets for all chemicals used to be included in the Safety File.	✓	✓

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										PSCS to take cognisance of Irish Water's Designer's Risk Assessments.		
16.	**HAZARDOUS MATERIALS**	**3**	**3**	**M**	**C, O**	Project Supervisor Design Process has not been notified by the Design Team or Client of any hazardous materials on site. Utility drawings are "indicative only". Any hazardous materials encountered which have not been highlighted previously are to be immediately reported to the PSCS, PSDP and Design Team before the works progress. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**2**	**2**	**M**	Contractor to ensure all works taking place in proximity to hazardous materials are carried out by personnel with the appropriate training and certification to carry out such works. Hazardous materials are to be removed and disposed of in accordance with HSA requirements and current legislation. Contractor to ensure that any asbestos containing material requiring removal is carried out by a registered asbestos contractor who shall be required to provide an asbestos 'clearance Certificate' prior to continuation of the works onsite. Caution and vigilance is advised when carrying out excavation works. Contractor to notify PSCS, PSDP and Design team if there is a suspicion of the presence of hazardous materials.	✓	✓
17.	**BIOLOGICAL HAZARDS**	**3**	**4**	**H**	**C**	There is always the possibility of Weil's disease infection due to the disturbance of rats and rodents on a construction site. There is also the risk of biological infection when working with live drainage systems. Particular Risk to be brought to the Contractors / PSDP's notice. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**2**	**3**	**M**	Contractor to note the possibility of Weil's disease infection due to the possible presence of rats. Procedures for the control of rodents on the site to be implemented at all times (client instruction). Good housekeeping and food waste control measures to be implemented at all times. Operatives when working on live drains should be inoculated. against Tetanus and Hepatitis. Good occupational hygiene practices should be implemented. Adequate PPE, handwash and Sanitizers should be provided. PSCS to take cognisance of Irish Water's Designer's Risk Assessments.	✓	✓
18.	**CONTAMINATED GROUND**	**3**	**3**	**M**	**C**	Project Supervisor Design Process has not been notified by the Design Team or Client of any contaminated ground on site. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**2**	**2**	**M**	Caution and vigilance are advised when carrying out excavation works. Contractor to notify PSCS, PSDP and Design team if there is a suspicion of contaminated ground. Hazardous materials to be removed and disposed of in accordance with HSA requirements and current legislation. If any hazardous materials of contaminated ground is discovered they will have to be removed by competent persons prior to continuation of the works onsite.	✓	✓
19.	**HEAVY PREFABRICATED UNITS / CRANAGE**	**3**	**4**	**H**	**C, O**	The project will involve the Assembly / Dismantling Heavy Prefabricated Components such as manholes, precast sections, structural steel beams. Weights and sizes of the various civil & structural elements has been minimised as far as is practicable. Where possible, mechanical lifting aids should be used to transport and lower items into position to reduce manual handling performed by workers. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**3**	**3**	**M**	The Contractor is to use safe methods of work and method statement to be issued by Contractor in advance of the works. Ensure the Temporary Works designer prepares a Risk Assessed Methods Statement (RAMS) and Temporary Works Cert for the installation of precast concrete sections, steel beams, large pre-cast concrete elements. All lifting equipment to be certified and lifting plans in place prior to lifts. Ensure all lifting is done by competent contractor using appropriate lifting equipment with trained operators and banksmen. Adequate certification for lifting equipment to be obtained prior to commencing work. All ropes/wires must be inspected, and all warning systems must be operational. The SWL as specified by the equipment must not be exceeded. Lifts should be avoided during period of high winds. A certified banksman must bank the crane. Crane and lifting gear certificates should be fully checked erectors and main contractor should agree safe work method before erecting begins.	✓	✓

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20.	HEAVY PREFABRICATED PLANT	3	4	H	C, M	Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	3	3	M	All plant installation shall be carried out with care and in accordance with the HSA recommendations.	✓	✓
21.	WINDOW CLEANING	2	4	M	M	Risk associated with maintenance of glazing particularly at roof level.	2	2	L	All maintenance works including those involving working at heights to be carried out by personnel with the appropriate training necessary. Scaffolding, harnessing, and PPE required to carry out such works.		✓
22.	PLANT MAINTENANCE HOUSEKEEPING	2	4	M	M	Risk associated with maintenance of ASHP – All to be located at garden level for ease of future access. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	2	L	All maintenance works to be carried out by personnel with the appropriate necessary training, harnessing and PPE required to carry out such works.		✓
23.	CONSTRUCTION SITE SPATIAL REQUIREMENTS	3	4	H	C, O	Site Is a long, narrow site which has the busy Lawn road running down its west boundary and a laneway behind McHale road wich is accessible to all Mchale road residents and the public If there is inadequate space on site or if the site is poorly planned and controlled there would be a serious risk of injury to operatives. Contractor to provide detailed proposals for the storage of materials and contractors compound as part of the Construction Stage Safety Plan. Refer to Site establishment drawing; MA637-03-PM_60_10_62-XX-XX-DR-MCC-AR-0020-1-SITE ESTABLISHMENT Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	3	M	Contractor / PSCS in conjunction with the Temporary Works Designer to prepare a detailed method statement for the installation of a safe compound	✓	✓
24.	CONSTRUCTION TRAFFIC MOVEMENTS WITHIN SITE	4	4	H	C	There is a serious risk of injury/accident from collision with construction plant within the site. This is A Particular Risk. Traffic routes around / across the site are to be designated prior to work with the right of way clearly indicated. Take into account the long and narrow nature of the site The site boundary is partially overgrown with trees, dense shrubs, some decayed trees and other vegetation on the site (between site and main road) On the east side, also be aware of the public walkway (behind mchale road housing) directly adjacent to this boundary and the Lawn road traffic Consideration to be given for the delivery, storage and installation of large or bulky items such as trusses, large structural members and items of plant for the works. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	3	3	M	Access routes for plant must be set out to ensure that: (a) safe and suitable access ways are provided, especially in proximity to the public road, adjoining social housing estate, and the sloping embankments to the north and east boundaries. (b) traffic and pedestrian routes are so organized and controlled, including where appropriate by the provision of a traffic and pedestrian management plan as to secure their safe operation. Site vehicles must be of good design and construction, be maintained in good order, be properly used and must not be operated otherwise than by a competent person. Vehicles must be provided with appropriate devices that were visibility of any operator is restricted remedy the hazards arising from inadequate direct vision	✓	
25.	CONSTRUCTION ACCESS AND EGRESS	3	4	H	C, O	The site is located on an existing public road on the outskirts of Castlebar, within the 50km/h speed limit. There is therefore considerable local traffic on the local road network in the vicinity of the site entrance. The access has limited sight lines for a busy public road.	3	2	M	Access and egress to, from and within the site must be maintained safe at all times. The site must be laid out to avoid risk of operative impact with construction traffic / plant. No reversing movements will be permitted onto the public Road.	✓	

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						Contractor to refer to Site establishment drawing; MA637-03-PM_60_10_62-XX-XX-DR-MCC-AR-0020-1-SITE ESTABLISHMENT Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.				Public safety is an absolute priority. Contractor to implement Traffic Management Plan. A Traffic Management Plan must be prepared and included in the Safety Plan taking into account vehicular and pedestrian traffic, cyclist and pedestrian movements near the access point to the site off the Golf Course Road into and from the site to ensure the safety of the public from construction traffic / activities. Roads leading to the site entrance must be kept clean of construction mud and dirt at all times. A daily road cleaning regime must therefore be put in place for the duration of the contract. Access for emergency services must be provided to all parts of the site which must be free of obstruction at all times Contractor should outline emergency procedures and access provisions for the emergency services in the Safety Plan		
26.	**WORKING ON/ NEAR PUBLIC ROAD**	**3**	**4**	**H**	**C, O**	Road opening will have to be made for connection / alteration of services. Contractor to make the necessary provisions to allow public traffic movement to continue unhindered. The Lawn Road access to the site is a particularly busy public road and main artery into the town centre. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**2**	**3**	**M**	Contractor to erect suitable hoardings / netting to ensure protection of traffic routes. A Traffic Management Plan is to be put in place in accordance with the Department of the Environment, Traffic Signs Manual & HSA guidelines. Contractor to ensure that alternative pedestrian routes are provided in place of those which will be blocked by site works etc. All existing access, egress and live services to be retained in operation.	✓	✓
27.	**PEDESTRIAN ACCESS ADJACENT**	**3**	**4**	**M**	**U, O**	Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**2**	**2**	**L**	The site is to be secured from casual entry by the public or children through suitable hoarding. Contractor to protect the Health and Safety of all pedestrians at all times.	✓	
28.	**WORKS ADJACENT TO OCCUPLIED DWELLINGS / PLAYGROUND / WORKS NEAR BOUNDARIES / PUBLIC DOMAIN / AGRICULTURAL LANDS**	**2**	**4**	**M**	**U, O**	There is heavy density existing housing bounding the site, with associated traffic and public walkways on all sides of the site. The site of the development is adjacent to Mchale road, an existing residential development along the length of the development along the south and east boundary, Lawn road along the north west boundary and to the north west of the site, Castlebar GAA (McHale Park) Football grounds are located to the east of the site on the opposite side of McHale road. The safety of the general public and of the public and local residents is an absolute priority. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**1**	**3**	**L**	Contractor to protect the health and safety of all users of public playground / playing pitches & occupants of adjacent dwellings. The site is to be secured from casual entry from public and in particular children from the adjacent housing. The safety of the public, particularly children must be considered when excavations are left open outside of working hours. The site is to be secured from casual entry from the public along the land and on all sides as the public are able to walk along all sides of the site. No equipment may be left in the public domain or outside the designated site area (including Mchale road laneway). Waste must be stored in a safe and secure manner. Particular attention should be paid to the protection of the public from falling objects from overhead.	✓	
29.	**NOISE / DUST**	**3**	**4**	**M**	**C, U, O**	It is a necessity to minimise dust, noise and vibration as far as is reasonably practicable.	**3**	**2**	**L**	The Main Contractor shall minimise noise and vibration as far as is reasonably practicable.	✓	

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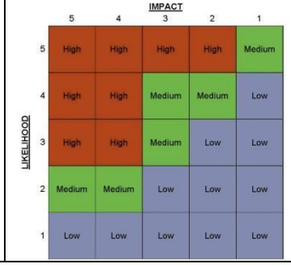
						Contractor to minimise noise and erect dust screens / protection. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.				Contractor to monitor noise levels externally onsite if requested to do so by the PSDP or PSCS.		
30.	**SITE SECURITY**	**3**	**4**	**H**	**C, U, O**	Construction sites by their nature pose high risks for members of the public, surrounding businesses, etc., all work areas shall be securely hoarded off, with appropriate signage to deter trespassers. On all sides site located in public realm Site must be fully horded and secured at all times. Indicative line of hoarding shown on Site establishment drawing; MA637-03-PM_60_10_62-XX-XX-DR-MCC-AR-0020-1-SITE ESTABLISHMENT Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**2**	**3**	**M**	Contractor to ensure site is fully hoarded and secured at all times as appropriate for a development in a semi-urban area by the provision of site hoarding, gates, security as appropriate. Warning signs to be posted to highlight the dangers involved. All access points to be closed/barricaded to prevent access to unauthorised persons. Entrance to be fully secured each evening/end of each work shift. Only authorised personnel allowed on site, signs to be posted. Responsible person to check site boundaries on a regular basis. Loose equipment to be removed outside of working hours. Fences shall be closed and locked to site at the end of each shift or during breaks.	✓	
31.	**SITE ACCESS**	**3**	**4**	**H**	**C, U, O**	Contractor to note that access is off Lawn road. Contractor to protect the Health and Safety of all road users. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**2**	**3**	**M**	Contractor to ensure site is secured at all times as appropriate for a development in a semi-urban area by the provision of site hoarding, gates, security as appropriate. Hoarding to be designed by Temporary Works Designer. Risk Assessment along with structural calculations for hoarding to be furnished to PSDP. Full gate security to be in place at all times.	✓	
32.	**ACCESS FOR EMERGENCY SERVICES**	**3**	**4**	**H**	**C, U, O**	Contractor to ensure maintenance of emergency routes for emergency services at all times. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**2**	**3**	**M**	Contractor to ensure existing fire access / routes are maintained operational at all times.	✓	✓
33.	**DROWNING**	**2**	**4**	**H**	**C, O**	There is a risk when working in proximity to deep excavations, manholes and sewers. Excavations below ground level may result in collection of surface water during rainfall and standing water in excavations. Mitigation measures to be provided by Contractor. The contractor shall coordinate the works to suit low water levels. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	**2**	**4**	**H**	Contractor is to cover excavations and all excavations to be fenced off. PSCS / Contractor to ensure that a Risk Assessed Method Statement (RAMS) is carried out for all works which pose a risk of drowning. Contractor to be aware of the weather forecasting, remain vigilant for any flood warnings and monitor surface and water table levels in the vicinity of the site. Traffic Management Plan and Safety and Health Plan (Construction) to address the potential for scenario of high-water table and localised flooding on the site. PSCS to take cognisance of Irish Water's Designer's Risk Assessments. Contractor to ensure that all necessary safety measures are implemented, all works in this area will require a method statement agreed with the PSCS, PSDP and Design team.	✓	✓

No	HAZARD	Risk Rating (refer to matrix) L	S	H M L	Persons Who May Be Affected Maintenance Construction Users Others M C U O	Risk Control Measure to Be Undertaken in Order to Eliminate Hazard / Reduce Risk To An Acceptable Level. Comment /Design Intervention	Residual Risk Rating (refer to matrix) L	S	H M L	Information / Control of Residual Risk / Particular Risks Comment /Design Intervention	Information to Be Included In PS&H Plan	Safety File
34.	**FIRE SAFETY FOR CONSTRUCTION SITE / NEAR COMPLETED BUILDINGS**	2	4	M	C, O	There is always a risk of fire on construction sites and in near completed buildings. Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	3	L	Contractor must put in place fire safety procedures including alarm and first aid firefighting equipment in the premises. A final walkabout inspection must be undertaken prior to closure each day. Hot works to be avoided where feasible.	✓	
35.	**MANUAL HANDLING**	2	4	M	C, O	Contractor to ensure all employees are fully briefed on manual handling to prevent personal injury. Refer Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	3	L	Contractor to ensure all workers are aware of best practice manual handling techniques including the weights of construction materials. Correct lifting is to be made available when and where required.	✓	
36.	**HOUSEKEEPING**	2	4	M	C, U	Contractor to maintain the site in a tidy manner to prevent trips and accidents etc. All construction plant, equipment and deliveries should be stored within the site compound and the site compound should remain secure at all times. The site compound should be arranged in such a manner to prevent construction work in close proximity to the hoarding line and all slewing and lifting of loads should take place within the site compound. Hoarding should be of sufficient construction and rigidity to prevent unauthorised access to the site. Refer Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.	2	3	M	Contractor to ensure all works involving machinery are carried out by personnel with the appropriate training and certification. Trenches, footpaths, roads and all areas within the contractor's responsibility to be kept clear of trip hazards and construction debris to reduce the risk of slips, trips and falls during the construction process.	✓	
37.	**SPREAD OF COVID-19 CORONAVIRUS / PUBLIC HEATLH MEASURES**	4	5	H	M, C, U, O	There is a possibility of Covid-19 infection which can affect lungs and airways. It can be easily spread and may survive on surfaces for up to 72 hours. PSCS / Contractor to consider and address the level(s) of risk associated with the project and tasks that operatives perform on site. Risk must be assessed in respect of 'close working', i.e. where persons work within 2m of each other (2m being the HSE recommended separation for social distancing). PSCS, in consultation with other contractors may appoint COVID-19 Compliance Officer if necessary, for the size, scale and complexity of the project. PSCS is responsible for ensuring that all personnel on site, including sub-contractor management/ staff have been made aware of the specific requirements of the site-specific Construction Stage Health and Safety Plan. Particular Risk to be brought to the Contractors / PSDP's notice.	4	5	H	Contractor / PSCS in conjunction with client to prepare a specific COVID-19 Plan in line with CIF Standard Operating Procedures / Public Health advice to address the risk of COVID-19 and the associated control measures required. PSCS / Contractor to take into consideration, where appropriate, limiting the number of persons-in any work area to comply with 2-metre social distancing guidelines recommended by the HSE (e.g. relocate operatives to other tasks.) PSCS / Contractor to review, where appropriate, work schedules and task sequencing, staggered starting and finishing times etc All works are to be carried out by personnel with the appropriate necessary training, and PPE required to carry out such works. All necessary training and PPE is to be provided to operatives to facilitate appropriate public health advice and social distancing requirements. Contractor to notify PSCS, PSDP and Design team if there is a suspicion of infection on site.	✓	

No	HAZARD	Risk Rating (refer to matrix)			Persons Who May Be Affected				Risk Control Measure to Be Undertaken in Order to Eliminate Hazard / Reduce Risk To An Acceptable Level.	Residual Risk Rating (refer to matrix)			Information / Control of Residual Risk / Particular Risks	Information to Be Included In	
		L	S	H M L	Maintenance	Construction	Users	Others	Comment /Design Intervention	L	S	H M L	Comment /Design Intervention	PS&H Plan	Safety File
					M	C	U	O							
									Refer to Civil & Structural and Building Services Engineer's Design Risk Assessments and Tender Drawings.						

GENERAL PRINCIPLES OF PREVENTION

1. The avoidance of risks.
2. The evaluation of unavoidable risks.
3. The combating of risks at source.
4. The adaptation of work to the individual, especially as regards the design of places of work, the choice of work equipment and the choice of systems of work, with a view, in particular, to alleviating monotonous work and work at a predetermined work rate and to reducing the effect of this work on health.
5. The adaptation of the place of work to technical progress.
6. The replacement of dangerous articles, substances or systems of work by safe or less dangerous articles, substances or systems of work.
7. The giving of priority to collective protective measures over individual protective measures.
8. The development of an adequate prevention policy in relation to safety, health and welfare at work, which takes account of technology, organisation of work, working conditions, social factors and the influence of factors related to the working environment.
9. The giving of appropriate training and instructions to employees

Likelihood (L) and Severity (S) Categories		Risk (R) Assessment Matrix	Risk Acceptability	
Likelihood (L)	Severity (S)			
5 Certain or Near Certain 4 Very Likely 3 Reasonably Likely 2 Unlikely 1 Very Seldom or Never	5 Permanent Total Disability, Single Fatality 4 Major Injury, Lost Time Injury 3 Minor Injury, Restricted Workday Case 2 First Aid 1 Slight Injury		High (H)	Unacceptable, must reduce and / or communicate Residual risk
			Medium (M)	Tolerable, reduce further if possible and / or communicate residual risk
			Low (L)	Tolerable, communicate residual risk if applicable

"PARTICULAR RISKS" **From Schedule 1 of Safety, Health And Welfare At Work (Construction) Regulations 2013**

Non-exhaustive List of Work Involving Particular Risks to the Safety, Health and Welfare of Persons at Work

1. Work which puts persons at work at risk of— (a) falling from a height,
   (b) burial under earthfalls, or (c)
   engulfment in swampland,
   where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or construction site.
2. Work which puts persons at work at risk from chemical or biological substances constituting a particular danger to the safety and health of such persons or involving a statutory requirement for health monitoring.
3. Work with ionising radiation requiring the designation of controlled or supervised areas as defined in Directive 96/29/Euratom4.
4. Work near high voltage power lines.
5. Work exposing persons at work to the risk of drowning.
6. Work on wells, underground earthworks and tunnels.
7. Work carried out by divers at work having a system of air supply.
8. Work carried out in a caisson with a compressed-air atmosphere.
9. Work involving the use of explosives.
10. Work involving the assembly or dismantling of heavy prefabricated component

NON-EXHAUSTIVE LIST OF RISKS / HAZARDS FOR CONSIDERATION

Burial Under Earth Falls
Working In or Near Excavations
Deep Excavations
Engulfment in Swampland
Falling From Height (Aggravated By Conditions)
Unstable Ground / Ground/conditions/bearing capacity
Underground Services
Overhead Services
Underground workings (wells, mineshafts, old foundations)
Undermining existing foundations
Work on or near existing boundaries / Boundary stability
Work on or near existing structures
Work On Wells, Underground Earthworks and Tunnels
Working On/Near Fragile Roofs or Material Working
Near/On Water / Risk of Drowning
Water table levels
Work near High Voltage Power Lines
Overhead/UG cables
Over ground services
Working With/In Vicinity of Electricity
Installation of scaffolding
Collective protection needed

Chemical Substances
Confined Space Work
Asbestos
Demolition work
Lead
Ionizing Radiation
Biological Substances
Hazardous Materials
Dangerous / toxic gases
Airborne contaminants
Contaminated ground Biological
hazards
Explosives
Compressed Air Systems / Works Carried Out By Divers
Heavy Steel Structures
Precast Conc Frame
Heavy Prefabricated Plant
After Build Maintenance
Roof Access
Window Cleaning
General Cleaning
Statutory Inspections

Plant Maintenance
Housekeeping
Construction access and egress
Working On/Near Public Highway
Pedestrian/traffic
Access/Egress
Local Traffic
Adjacent activities Adjacent buildings
Existing buildings
Trees/ planting
Noise
Hoarding/adjoining activities
Building Occupants Fire Safety
Fire Safety For Near Completed Building

Compound Location
Storage Compound
Welfare
First Aid Facilities
Access for emergency services
Manual Handling
Sun Exposure
Weather

NOTES:

1. Element / Location
2. Hazard
3. Risk Rating
4. Persons Who Will Be Affected
5. Risk Control
6. Residual Risk Rating
7. Control Of Residual / Particular Risks
8. Information to be included

Identify the Nature of Work
Identify hazards and the associated consequence that your design may present during construction, operation, maintenance, commissioning and removal.
See Likelihood and Severity Categories and Risk Matrix
Outline to whom the potential to cause harm is to(to operatives or members of the public) Actions by Designer to Reduce Risk Rating

1. Can the risk be avoided in so far as is reasonable practicable by changing the design or specification?
2. Can the risk be reduced in so far as is reasonable practicable by changing the design or specification?
3. If the final risk rating is still significant, explain why and what others need to do to minimise the risk.

Apply the General Principles of Prevention to the design
Design controls to be included in specification or on drawings as appropriate. Designers should avoid instructing the PSCS or Contractors as to how residual risks are controlled on site unless the control measure is intrinsic to the design

See Likelihood and Severity Categories and Risk Matrix Below
Actions to Reduce Risk Rating
Is the information required in the Preliminary S&H Plan (Plan), Safety File (File) or both?