NORTHEAST DEMOLITION UK LTD
RISK ASSESSMENTS FOR

Date: 27th November 2020	**Demolition Risk Assessments. Job No NED 4212**	
Address: Cherry Garden School, Macks Road, SE16 3XU.	Assessor / Author: R Mould	Location: School.
General RA's for works.		
L = Likelihood HP = Potential severity R = Risk Rating 5 = High 1 = Low based on a 5 x 5 matrix. The higher the figure the greater the severity.		

Hazard	Initial Risk			Control Measure	Residual Risk		
	L	HP	R		L	HP	R
Contract (and Subcontractor's) Employees *Risk of accident due to unfamiliarity with site hazards*	4	4	16	All persons on site to be recruited on the basis of task competence and safety awareness. **CCDO CPCS Cards mandatory for all site personnel** All site personnel to be given an induction, prior to task commencement, by the Manager or Site Supervisor, on the site rules and safe working procedures to be followed. Information for site personnel to be updated on site hazards via toolbox talks. All persons must work to the agreed safe system of work at all times. Sub-contracted companies to provide method statements for any tasks carrying a significant risk. Manager or Site Supervisor to agree the planned method prior to task commencement. Contractors to work to the site rules, the Client's site rules and the agreed method statements at all times. Any alterations to agreed working methods only by approval from the Manager or Site Supervisor.	1	4	4
Site Visitors *Risk of accident due to unfamiliarity with site hazards*	4	4	16	To be accompanied at **ALL TIMES** and provided with required personal protective equipment.	1	4	4
Unauthorised Trespassers *Risk of accident due to unfamiliarity with site hazards*	2	4	8	Unauthorised access to hazardous areas to be prevented by barriers at site entrance and warning signs etc. Doors and openings into the working areas to be secured outside working hours. Materials to be stored securely within the fenced compound area, to discourage malevolent trespass.	1	4	4
Working Around Other Contractors / Employees / Third Parties *Risk of severe damage/injury to/by other contractors and/or their plant and equipment*	4	5	20	Effective pre-planning and phasing of work tasks will be undertaken to avoid risk conflicts with the Client. The Manager will ensure that adequate warning signs and segregation arrangements are made to keep third parties away from the working areas. **Pre-start planning meetings will define the contract/client boundaries and designated access points, to separate the contract working areas from the Client's activity. Strategic Review meetings will be held fortnightly between the Manager and Client. Daily progress briefings will be held between the Site Supervisor and operatives and segregation arrangements adapted in accordance with the planned phase of work or to suit the pervading situation. Should any concerns arise, the Manager and the Client will liaise (and, if necessary, involve the CDM Co-ordinator) to resolve any conflict issues.**	1	5	5

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				A possibility that wide variety of different trades will be undertaking contract work within the building. It is essential for each contractor to take full regard of the activities of others on the site, to be sympathetic to the Client's needs and to obey the working rules for the area in which they operate (including the pervading hygiene procedures for the particular area). If it is felt that contract work creates a hazard to others, then work should immediately cease, until either the hazardous conditions caused, or the third parties, can be removed from the vicinity. In the event of any other contractor, employee or third party creating a hazardous situation for site employees and contractors, work should immediately cease and the Manager or Site Supervisor be informed, so that he can take the appropriate action to remove or minimise the hazard. **Supervisor.** Contract personnel should not perform any task for a third party, unless authorised by their manager or supervisor. **All persons should note that in any doubt as to whether their work presents a risk to third parties or that they feel that a third party's activities are putting them at risk, they must stop work immediately and consult the Manager or the Site Supervisor.** Contract personnel should not perform any task for a third party, unless authorised by their manager or supervisor.			
Site Tidiness *Risk of fire, slips and trips from combustible waste and general debris*	3	3	9	Always keep the work area and especially access ways and entrances/exits clear and free from all types of debris, trailing cables, flammable materials and hazardous chemicals. Dust should be cleaned up immediately as, if left, it could spread and contaminate the Client's processes. Working materials and tools must be removed if the person using them leaves the job at any time. Care should be taken by all operatives and supervisors when planning each task to minimise the number of obstructions for both the operative performing the task and others who may be affected by that task. Site Supervisor to monitor on a regular basis. Any obstructions created by third parties should be reported to the Site Supervisor, who will arrange for their removal.	1	3	3

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Working at Height *Risk of fall*	2	3	6	The duty when managing work above ground or floor level is to reduce the risks of working at height to the lowest practicable level. This extends to the following areas:- • Eradicating or minimising risks of working at height (both during construction and for future maintenance tasks) by the inclusion of safe access in the original design of structures or installed equipment. This may result in the location of items at floor level rather than at height, should they require frequent access. • Designing the programme of work and tasks to be performed, such as to reduce the risk from work at height to the safest practicable level. • Eradicating or reducing the risks for persons accessing areas at height to the lowest practicable level, by specifying aids to assist with the securing of temporary access equipment. • Reducing the actual heights of the levels requiring to be accessed to a minimum, through original design and by choice of work equipment. • Minimising the numbers of people undertaking high level work to the lowest practicable safe level, and minimising the actual time spent at height. • Using the hierarchy of control approach to risk assessment, to assess the risks and to select the safest practicable means for accessing any required task at high level. • Undertaking specific risks assessments where any special considerations apply for working above floor level • Formulating safe systems of work for undertaking all high level tasks, and ensuring that the appropriate personnel are adequately trained, equipped and competent to undertake those tasks. The Company should seek to avoid high level working, wherever possible. If work at height cannot be avoided, then a rigid barrier edge protection around all edges of areas where persons could fall any significant distance (including temporary access platforms) should be the priority measure. Toe boards must be provided on work platforms, to contain work equipment and materials. Warning signs and barriers must be positioned at ground level below working areas. The Manager or Site Supervisor must ensure that barriers and warning signs at base level are maintained at all times. Ref: Work at Height Regulations 2005 and HSG 33.	1	3	3

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Access Scaffolds *Risk of falls, scaffold collapse, falling objects, falls from height*	3	3	9	Only trained and certificated scaffolders to erect or alter scaffolds to industry code of practice SG4. Scaffolds must not be tampered with by any person other than an approved scaffolder. Scaffolds to be tagged as fit for use, prior to use, and to have a handover certificate from the scaffold erector. No scaffold to be used unless a prior inspection has been undertaken by a competent person and a handover certificate has been issued by the Scaffolding Contractor to the Principal Contractor. Weekly inspection (or inspection after poor weather or collision likely to affect scaffold stability) by a competent person. Results to be entered in scaffold register held on site	1	3	3
Tower Scaffolds *Risk of falls, tower collapse, falling objects, falls from height*	3	3	9	Mobile towers should only be erected by suitably competent, trained persons. Likewise, inspections should only be carried out by those trained in the regulations, safe construction and codes of practice involved in tower erection. After a tower has been erected, the following checks should be made before it is used: • Check that it is vertical and square and that the horizontal braces and platforms are level. • Check outriggers or stabilisers are correctly positioned and secured. • Check that all baseplates or castor wheels are fully in contact with the ground, including those on stabilisers or outriggers. All castors should be properly locked. • Check that all the spigot and socket joint locks holding the frames together are secured. • Check that all the bracing members have been located exactly in accordance with the instructions in the supplier's manual. • Check that all guardrails and toe boards are in position as required. • Check that all access stairways and ladders are in position and are firmly located. • Check that the base to height of platform ratio does not exceed 1.3 when working externally; or at a ratio of 1:3.5 when working internally. During use, the tower should be kept in good order. A competent person should inspect the tower regularly to see that the structure has not been altered in any way. Should parts become lost or damaged, they must be replaced before the tower is used again. Any mobile tower that is erected for more than a week should undergo a formal weekly inspection by a competent person, with the results entered in the scaffold register. **N.B. Mobile tower scaffolds must not be used on any upper floor, unless edge protection is in place that will prevent the wheels from going over the edge of the floor.**	1	3	3

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MEWP **Hydraulic Access Platform (Single Boom / Scissor Lift or Cherry Pickers)** *Risk of falls, entrapment, equipment failure or instability*	3	3	9	Operatives should be trained and competent for the use of any mobile access equipment with copies of training certificates held on site. Plant and machinery statutory test and examination certificates to be held on site. This includes hand-over and weekly inspections to verify scaffolding as safe for use. Safe working load should be marked on the equipment and never exceeded during operation. Ensure working platform is suitably guarded with rails and perimeter toe board to prevent falls from height and falling objects. Always clear surrounding area, to prevent persons being hit by any falling objects. Operatives should only access working platform when lift platform is fully lowered. Always lower work platform fully before moving the platform to another location. Suitable barriers and warning signs to be erected to keep other contractors or third parties away from the risk of falling objects. If working over an access route, ensure that third parties are protected e.g. by a covered walkway. Ensure that third parties are clear of the working area at base, to avoid trapping in boom mechanism. Keep equipment on firm solid ground and away from unprotected edges on floor. If necessary, use lifts fitted with stabilisers to ensure greater stability. **Harnesses with a fixed lanyard, attached to the lift basket or other load bearing structure at, should be worn at all times when working from single-boom mobile elevated platforms.** A suitable method for rescue of the suspended casualty should be pre-determined prior to use, depending on the work location (e.g. tower, ladder, other M.E.W.P. etc.) Do not locate in doorways etc. where other vehicles or pedestrians require access.	1	3	3

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Podium Steps *Risk of falls, tower collapse, falling objects, falls from height*	3	3	9	Podiums should only be erected by suitably competent persons who have had training to erect them. Users should be aware of the dangers of working at height and from instability caused by over-reaching outside the work platform. After a podium has been erected, the following checks should be made before it is used: • Check that it is vertical and square and platforms are level. • Check that all castor wheels are fully in contact with the ground. All castors should be properly locked. • Check that all the joints holding the frames together are secured. • Check that all guardrails and toe boards are in position as required. • Check that all access stairways are firmly located. Should any parts become lost or damaged, they must be replaced before the podium is used again. N.B. Podiums must only be used as a work platform if a) They are not placed in a situation where they block access for others. b) The equipment is fully built with a barriered platform and toe board and the platform is fully enclosed and secured before work starts. c) The operative remains within the work platform enclosure and does not attempt to over-reach or stretch outside the confines of the platform which could result in instability. d) The wheel locks are properly secured	1	3	3
Ladders and Steps *Risk of falls, collapse, falling objects, falls from height*	2	2	4	Ladders and steps must only be used for short duration work in any one location. They should not be used where safer practical alternatives can be selected for access when working at height. Ladders and steps must be free from defect. Regular checks should be made on their condition. Ladders must be properly secured at all times (i.e. tied onto a secure structure so they cannot move). Regular checks should be made on securing fastenings. A ladder should extend 1.05 metres past its stepping-off point and be positioned at a gradient of 1 in 4. Each supervisor will make a regular check on ladders and steps for split stiles and damaged or missing rungs. If defective, **DO NOT USE** and either replace it or report it to the Manager or Site Supervisor immediately. All ladders and steps must be sited on firm, level ground. Ladders should be properly secured at the top or footed by a second person. Steps should be properly extended and locked in place.	1	2	2

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Ladders and Steps *Risk of falls, collapse, falling objects, falls from height*				Only one person should be on a ladder or steps at any one time. Ladders must be long enough for the job, maintaining at least three rungs above the rung on which the user stands. Steps must be tall enough to allow an operative to access the work area without over-reaching. Users must face the ladder or steps, and maintain a firm grip when ascending/descending. **N.B. Long ladders should never be used unless fully secured at the top. The sole precaution of a person footing the base of the ladder would be unlikely to stop the fall**			
Work On Unprotected Edges *Risk of falls from height when working on unprotected edges or fragile roof*	3	3	9	Work on unprotected edges is only to be allowed if no fully-barriered platform is practicable. Safety harnesses connected to a fixed structure or running line will be worn whenever operatives work at any significant above the floor, where there is no edge protection, in accordance with the requirements of the Work at Height Regulations 2005, and the Construction Design and Management Regulations 2015. Harnesses will be attached to either an inertia reel, or a rope and running line. All safety harnesses and lines must be attached to either a running line, connected at either end to fixed load-bearing points, or to a single load-bearing point. On no account should any person use a safety harness unless:- a) The harness, lanyard and attachments have been checked as fit for use by a competent person. b) The load-bearing structure or line to which the harness has been attached has been checked as fit for use by a competent person. c) A safe method of rescuing any person suspended in a harness has been worked out, agreed and understood by all involved in supervising and using the equipment, prior to task commencement. d) The harness system prevents a person from falling to the floor (i.e. prevents the fall or, if this is not possible, arrests the fall prior to the person hitting base level). e) The operatives using the harnesses have been fully trained in the safe use and application of the equipment. Supervisors should take action against any operative not wearing a properly secured harness while working on an unprotected edge.	1	3	3

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Manual Handling *Risk of strains, musculoskeletal injuries*	3	3	9	Main risks are in the lifting of materials up and down from access equipment, manual handling at height and also when working in tight areas such as roof spaces and pits. Ensure that access ways are clear, so that persons moving heavy objects cannot trip or fall. When lifting or moving materials, use mechanical means wherever practicable. Trolleys or barrows should be used whenever possible to move loads through the building. When lifting and depositing loads, ensure that the load is manageable and if necessary ask for help if load is heavy and bulky. Avoid individuals lifting any load heavier than 25kg, or large or bulky items, especially where the load is handled away from the body. Larger loads should be broken down into smaller unit sizes and weights wherever practicable, and moved mechanically, by employing trolleys or by ensuring a number of suitable persons to share the task. Where unloading or loading a distance from the work areas, fork-lift truck assistance (depending on the item(s) involved) should be used for all heavy and sizeable loads. N.B. Especially avoid the manual handling of heavy loads up and down access stairways, ladders and steps. Increased risk of strain due to lack of control over the load and possible falling persons or objects.	1	3	3
Asbestos Material **(Found in ceilings, insulation tiles, panels, lagging etc.)** **Crocidolite (blue)** **Amosite (brown)** **Chrysotile (white)** *Serious risks to health*	4	4	16	An intrusive refurbishment pre-demolition survey will be undertaken for the parts of the existing structures that will be affected by the work of this contract**.** Any identified licensed asbestos material that could be disturbed by the project, will be removed under a separate contract prior to start, by a licensed contractor. However, even after an intrusive survey, there remains a chance of some hidden ACMs being uncovered. NED Demolition operatives are trained to category B non-licensed asbestos works Contractors must remain vigilant when breaking down or abrading existing structures. If any suspect material is discovered, then the Manager must be alerted immediately and arrangements made to have the material identified and, if found to be an ACM, removed, before any further work takes place in the area. **Unlicensed contractors are not to disturb licensed asbestos material under any circumstances.** If a material thought to be asbestos is found during normal contract work, work must cease until one of the following has been achieved:- 1. The asbestos is removed using controlled stripping techniques by a licensed contractor and the area certified as clear of asbestos. or 2. The material is encapsulated by a licensed contractor and the area certified as safe for contractors to work in without having exposure to asbestos. or	1	4	4

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Asbestos Material (found in ceilings, insulation tiles, panels, lagging etc.) **Crocidolite (blue)** **Amosite (brown)** **Chrysotile (white)** *Serious risks to health*				3. The material thought to be asbestos is verified as non-asbestos by proper analysis. In such cases it may still be necessary to take additional precautions such as respiratory, body and eye protection as determined by the COSHH risk assessment for that material. or 4. If the material is verified as asbestos and is in good condition and can remain undisturbed, a safe working method can be devised whereby the contractor does not need to come into contact with or disturb the material. In such cases there must be a clear marking of the asbestos material and a thorough briefing of asbestos hazards and the safe working methods to be used to the operatives. or 5. If the material is low level asbestos and outside the licensing regulations, it can be worked on using an approved method. If so, a prescribed method of working as per HSE guidance (HSG 210) will be used to work with the material. Ref: HSE Guidance "Asbestos Essentials: Task Manual			
Substances harmful to health, skin burns, inhalation.	4	2	8	COSHH assessments will be issued on all substances used or found. COSHH assessments will be required from client. All operatives will receive induction on harmful substances and dust. Copies of COSHH assessments for fuels, hydraulic oils and lubricants will be held in the site offices. Priority should be given to using substances and materials which are non-hazardous and environmentally friendly wherever possible. Manager or Site Supervisor to review all COSHH assessments on an on-going basis. COSHH Assessments will be undertaken by competent person for all hazardous substances. These will be contained in the Contractor's COSHH Manual. All hazardous substances to be stored in locked storage areas. No unauthorised person to use a hazardous substance. All persons will be given required induction training before using hazardous substances. PPE to be worn as directed in individual COSHH assessments. COSHH assessments must be provided **by all contracting organisations** to allow a proper risk analysis to be undertaken and proper precautions undertaken.	2	2	4

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Strip-out and Dismantling Operations *Risks from falling materials, sharp objects and debris*	4	4	16	A detailed safe working method statement will be in place and will be understood by all, prior to any dismantling work. The method will minimise the risks to persons, by as far is as practicable:- • Ensuring that only the minimum number of people are involved in the work, as little work as is possible is undertaken within the structures being demolished / dismantled, and that mechanical means are used whenever possible. • Taking steps to prevent non-essential personnel and third parties from entering the area. • Ensuring that no unplanned collapse of materials occurs. Structural engineering designs may be required detailing sequences of works. Floor loading calculations, split lines, temporary works Throughout all demolition and dismantling operations, operatives undertaking the work should:- • Ensure that service isolation procedures have been carried out prior to commencement. • Wear head protection while stripping-out. Safety glasses and gloves should be also worn when removing sharp objects such as glass or suspended ceiling grids. • When dismantling large or heavy objects, such as roof beams or partitions, ensure that sufficient persons are allocated to the task to prevent excess strain when manual handling and potential falls onto others. • Ensure that there is always an access through the site kept clear of debris and waste. • Remove waste on a frequent basis from the site to the skip, to prevent tripping and fire hazards. • Ensure that non-essential personnel are kept away from dismantling operations. When working at height, there should be warnings and barriers at the base.	1	4	4

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Contaminated Surfaces *Health risk*	3	4	12	An intrusive/pre-demolition asbestos survey will be carried for the areas affected by the work of this project, and the Register will be made available and kept by the Manager for anyone to review at any time. The presence of any further hidden asbestos material is extremely unlikely. However, should anyone find material that they may suspect of containing asbestos, work must stop immediately and the Principal Contractor must inform the Manager so that the material can be positively identified and appropriate action taken as necessary? However, some degree of contamination will exist in any existing premises. These could cause health problems if there is inadequate protection against exposure. To overcome the harmful effects of any contaminants on existing surfaces, the following should apply:- • Minimise contact between humans and contaminated area. • Use mechanical means where possible to work on and move contaminated surfaces. • Use PPE to protect operatives, including protective overalls and gloves. • Thorough washing and cleaning procedures should be followed for humans, equipment and plant. See Guidance booklet HS (G) 66 for details.	1	4	4
Dust *Health risk*	3	3	9	Some dust may be created during works. Where this occurs, contractors must ensure that the dust is suppressed at source wherever practicable by employing liquid suppression on cutting tools, and also sheeting protection is provided to protect other contractors and third parties from the effects of dust on site. All operatives exposed to dust must wear appropriate overalls, gloves, dust masks and eye protection.	1	3	3
Waste Removal *Environmental risk / risk of fire from combustible materials left on site*	4	3	12	Waste removal from site will be strictly controlled. All movement of waste from site will be recorded. All waste will be transferred to an appropriate facility Waste will be recycled where possible. As works progress waste will be separated in to different streams All waste on site will be stored to prevent spread either by placing it directly into containers or creating a stock pile area fully enclosed by heras fencing with debris netting attached.	1	3	3

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Plant and Equipment *Risk of equipment failure or injury from inappropriate use.*	4	5	20	Operatives should be trained and competent for the use of any specialised tools or equipment with copies of training certificates held on site. This includes Mobile Access equipment and site plant as well as hand-held work equipment. Plant and machinery statutory test and examination certificates to be held on site. This includes hand over and weekly inspections to verify scaffolding as safe for use. Weekly inspection registers must be maintained by the Contract/Site Manager. When any high-risk operations are carried out with site plant, clear segregation should take place and access routes should either be avoided or diverted. Operatives working beside plant should be essential personnel only and wear high visibility clothing at all times	1	5	5
Lifting Tackle *Risk of load falling from height*	2	4	8	Mechanical lifting equipment includes powered mobile work platforms and hi ab cranes on delivery vehicles. All equipment to be maintained in good condition. Lifting tackle must have:- • Mark with its safe working load (S.W.L.) • Identification Mark • Current examination certificate available	1	4	4
Lifting Operations *Risk of falling objects, collision with vehicles or interference with the structure when lifting. Also risk of load falling from height*	2	4	8	Lifting operations to be pre-planned taking into account all aspects of the load to be lifted. Banks man/Slingers should be trained. Competent person to be in charge of lifting operations. Clear segregation of working areas and close supervision by the Manager or Site Supervisor is required, to ensure that persons are kept clear of areas directly beneath or in line with any lifting or swinging across of materials or structures.	1	4	4

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Hot Work -Welding / burning operations *Risk of burns, fire and explosion*	3	3	9	Prior to the use of oxy/propane burning/cutting equipment a leak detection test shall be performed. Any faulty/damaged equipment shall be repaired or replaced prior to the work commencing. If any equipment has been repaired or replaced then the leak detection test shall be repeated. PTFE tape shall not be used to repair any leaks on oxygen cylinders or equipment as it is combustible. Oxy Propane cylinders must be protected and kept clean at all times. When connecting up a bottle to the equipment, the operator must ensure that the correct regulator is fitted and is in good condition with undamaged threads and no grease applied. Hoses at the point of connection should be armoured. Connections must be clean and secured by crimped fittings. Gas bottles should be used only in a secure upright position with a **FLASH BACK ARRESTOR**. ***At locations where hot work is to be undertaken, the fire risks must be assessed and the work carried out in accordance with:-*** • The Principal Contractor's requirements and any site rules or procedures • Any permit to work requirements applying to the location • The requirements of the Code of Practice on the Prevention of Fire on Construction Sites, issued by the Loss Prevention Council. **When using oxy propane torches, the following precautions must be observed:-** a) A suitable portable 2 gallon (or metric equivalent) water or CO2 fire extinguisher should be available for immediate use. b) Torches are to be lit for as short a time as possible before use and extinguished immediately after use. c) No lighted torches must be left unattended. A thorough examination of the hot working area must be made 60 minutes after conclusion of each period of work. When leaving the job site, cylinders must be isolated at the valve.	1	3	3

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Crane Lift *Risk of falling objects, collision with vehicles or interference with the structure when lifting. Also risk of load falling from height* ***Man riding basket***	2	3	6	Crane will be hired from an approved hire company with driver and banksman. Sufficient signs must be posted to warn of crane operations in progress. Position of crane and line of lift to be determined by a qualified "Crane Manager". Appointed Person All plant to have current test and examination certificates available for inspection on site. Safe load indicators (with audible alarms) should be fitted. Only trained banksman and drivers allowed to direct and operate crane operations. These persons must carry training certificates. Any crane remaining on site for more than 7 days on site will undergo an additional weekly examination, which must be entered in the site register. Persons should not work directly below lifting operations. Crane must be located on firm, even, stable ground. Site subterranean services to be located, to ensure there is no risk of ground collapse. It should be made fully stable and immobilised before use. Spreader beams should be extended to ensure stability. The crane should be placed on a site that allows sufficient room to safely manoeuvre the loads required. Basket SWL indicated in cage, loads not to exceed SWL, Through examination certificate inspected and dated within 6 months Operatives wear fall restraint harness secured to the cage via lanyard secured to prescribed lifting eye	1	3	3

NORTHEAST DEMOLITION UK LTD
RISK ASSESSMENTS FOR

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General RA's for works.		
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	L	HP	R		L	HP	R
Site Traffic, Including Deliveries and Collections *Traffic obstruction and risk of injury / collision*	4	4	16	The Manager will create a Site Traffic Management Plan to avoid access conflicts and unnecessary manoeuvring on site. All large vehicles to be guided in and out of site, and manoeuvred on site by a banksman. Banksman to wear a high visibility vest/jacket. Where possible, audible and visual signals should be used for reversing. Parking for private contractor's vehicles only in recognised allocated vehicle parking areas. No parking or waiting on the driveway into the site. Drivers must take care when other vehicles and pedestrians are in any area through which they are moving. Traffic routes for plant operating both outside and within the building should be kept apart from pedestrian routes and working areas as much as possible. Clear signs and high visibility segregation (cones, bollards, tape on fencing etc.) should be used, to route third parties away from contract areas. All excavations to be clearly marked and barriered, and traffic routed away from such areas. Where access routes are shared with the Client, discussion must take place with the Client and procedures instigated to ensure that the Client's traffic and staff involved in (off) loading are not put at risk from construction traffic.	1	4	4
Work on Existing Electrical Systems *Risk of electrocution from mains supply*	3	4	12	Any essential live cables that cannot be isolated must be identified by signs and warning tape. A permit to work is to be used to ensure that the 240v mains supply is disconnected before work commences on any dismantling of existing strictures. A competent electrician will transform the supply from the mains to a temporary 110v supply, and will not reconnect the 240v supply until all remedial work has been completed. Prior to disconnecting the supply to any area, liaison will take place with the Client's maintenance engineers to ensure that disconnection does not affect the Client's process requirements. The electrical contractor carrying out the work of disconnecting and re-connecting mains supply will have sole access to the source of supply during the contract period. If live working is undertaken, it must only be undertaken where it is absolutely essential that the supply is not isolated (e.g. when commissioning the system or items of electrical equipment). No working alone should be allowed when live working is undertaken. No other persons to be allowed access to the electrical supply.	1	4	4

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High Vibration levels *Risk of hand-arm vibration*	3	3	9	Tools will be purchased on the basis of priority given to equipment giving off the lowest practicable vibration levels to the user. The manufacturer's data and guidance should be obtained to assess the vibration level, and usage should be in line with this guidance. Only trained and appointed persons to use specialist equipment such as hand held compactors, breakers or rotating still-saws. Persons to be risk assessed and anyone suffering from arthritis, or with a previous history of upper limb disorders, should not be authorised to use this type of equipment. Full hearing and eye protection to be worn, plus respirators if dust is created. Minimise usage to prevent risks from hand-arm vibration.	1	3	3
Noise *Risk of noise –induced hearing loss*	3	3	9	All noisy operations should be carried out when third parties are removed to a safe area, away from exposure over the first action level of 80dB(A). Operatives working with noisy equipment such as abrasive discs, road saws and breakers should wear hearing protection as indicated by warning symbols on the plant instruction panel. NED Demolition to perform noise assessments on plant operations to determine hearing protection requirements. NED will make hearing protection available to all working with noise levels greater	1	3	3
Portable Power Tools, Supply Cables, Generators etc. *Electrocution risk*	2	3	6	Records to be established and regular inspections every 3 months carried out by competent person to ensure portable electrical equipment remains in good condition. 110 volt equipment to be used, supplied via a transformer, centre-tapped to earth. Alternatively, use battery-powered equipment as a safer option. 240 volt supply connection should not be used except with consent of Manager or Site Supervisor. Any power tools requiring higher voltages may only be used with the permission of the Principal Contractor. In such cases RCDs must be fitted.	1	3	3
Hand-held breakers *Risk of hand-arm vibration or flying fragments of material*	2	3	6	Only trained and appointed persons to use specialist equipment such as breakers or cutting saws. Full hearing and eye protection to be worn, plus respirators if dust is created. Minimise usage to prevent risks from hand-arm vibration. Water-fed dust suppression to be fitted to concrete –cutters, to minimise dust emissions at source. As a guide, power tools should not be used for longer than 45 minutes continuously without a break, or for lesser periods if manufacturer's vibration levels advise.	1	3	3

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Abrasive Wheels *Risk of burst or flying fragments of material*	3	3	9	Only trained and appointed persons are allowed to change abrasive wheels (appointments made and listed in a register). Check wheel compatibility with machine before each use. Maximum Operating Speed of the wheel must exceed the operating speed of the machine. The make-up of the wheel must be appropriate to the task for which it is being used. Newly mounted wheels to be run for 1 minute, once mounted, pointing away from other operatives and with the guard fully in place. Eye and hearing protection to be worn, plus respirators when dry cutting.	1	3	3
Underground Services *Electrocution / explosion risk*	3	3	9	Initial location of sub-surface services by drawings, plans and liaison with all utility companies. Service plans to be acquired and examined prior to any excavations. Location equipment to be used prior to any excavations. Detection equipment to be used by trained operatives. Hand dig the site, prior to mechanical excavation - see HSE Booklet HS(G) 47 Service isolation certificates issued by the service providers will be reviewed and retained on site	1	3	3
Protection of Excavations *Risk of collapse of excavations and persons/traffic falling into excavations*	2	3	6	Total site to be thoroughly fenced off from third parties, with warning signs in situ. Required signs and warning lights to be laid out, before commencement of operations. All excavations to be safely shored to prevent collapse. Excavation sites to be back-filled each day. Where this is not practicable, excavations should be covered over with boards (or road plate), separately fenced off with clear signage around them. If work is conducted near to third party access routes, night lighting may also be necessary. However, where practicable, these excavations will be created and backfilled within the same working day.	1	3	3

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Cross -Contamination from Adjacent working Areas from Materials/ Dusts/Fumes *Food hygiene risk*	2	3	6	All contractors must select of equipment and methods of work that are intrinsically low in creating dusts or fumes. Suppression of dust at source (e.g. liquid pump to suppress dust) should be used wherever practicable. Screens to be erected (floor-ceiling) to prevent transfer of dust and fumes from construction areas into sensitive areas. Removal of any dusty clothing prior to working in or adjacent to the Client's production areas (if necessary, removable disposable overalls should be worn when there is a risk of dust, so that these can be disposed of before resuming other work in the Client's areas). No glass bottles or nuts are allowed on site. Eating, drinking and smoking are only allowed within bespoke areas within the site compound and in areas authorised by the Client. Bespoke access and egress routes should be devised, where possible, to take Site personnel away from the Client's food production areas and thereby lessen risks of cross contamination.	1	3	3

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Confined Space: Entry and Working *Risk dependent on nature of confined space and site specific risk, but may be fatal e.g. lack of oxygen, fumes, explosion, electrocution, heat or cold*	2	3	6	A confined or restricted space is a phrase used to describe a working place that has low occupancy under normal conditions, has restricted access and/or may have little or no ventilation. Confined spaces include manholes, fat-traps, tanks, ducts and even conventional buildings and workplaces if new processes creating fumes or poisonous gases are introduced into them. If work has to take place in such a workplace, a thorough and competent assessment of the work area has to be made. As a result of this assessment, the Company can decide on the procedures that must be taken to safeguard those working there. The person making the assessment must be familiar with working in hazardous confined spaces and be competent to thoroughly assess the situation, taking into consideration the work that has to be undertaken. No person must ever enter a confined space unless a rescuer is present on the outside who is fully trained and able to effect a rescue, and they have suitable equipment available for entering that confined space. This will vary according to the risk assessment, but may feature equipment such as:- • Gas detector • Personal respirator • Adequate ventilation • Adequate means of communicating with persons external to the confined space • Safe access and egress All work in any such place will be carried out in accordance with the Confined Spaces Regulations 1997.	1	3	3

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Handling asbestos cement products exposure to fibres, may cause Asbestosis, Mesothelioma and Death	4	5	20	1. A competent person carries out an assessment of the works and prepares a suitable plan of work incorporating the most appropriate work methods. 2. All operatives have received adequate relevant asbestos training. 3. Sheets removed whole where possible. No power tools to be used to cut. 4. Asbestos cement materials are wetted / sprayed with suitable fibre suppressant prior to removal. 5. Adequate on-site supervision provided. 6. PPE to include orinasal respirators (EN 149 FFP3); boiler suit-type overalls to be laundered by a specialist firm or disposable overalls to be disposed of as asbestos waste. 7. Air monitoring. 8. All asbestos waste is double-bagged or wrapped in 1000 gauge polythene and placed into suitable sealed and labelled containers, e.g. lockable skips.	1	5	5

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Hazard: The use of Hand Tools. i.e. Mattocks, Sledgehammers, Shovels, Brooms **Risk:** Falling materials Falls due to access problems Impact with the tool Musculoskeletal Contamination with substance Being worked with inhalation dust	3	5	15	**Controls:** 1. Wherever possible use mechanical means to replace manual handling of tools, equipment or demolition arising. 2. Ensure that the tool is correct for the job. 3. Ensure that the tool is in good order and suitably sharp. 4. Ensure that the operative is instructed how to use the tool safely. 5. Ensure that lighting is sufficient. 6. Ensure that the access is safe with any working platform compliant with Work at Height Regulations 2005. All leading edges must be guarded with double rails and toe boards to comply with Work at Height Regulations 2005. 7. Ensure that the operatives be trained in site safety. Work should be scheduled / phased. 8. PPE appropriate to the task is issued and used, e.g. hard hats, safety footwear, impact resistant goggles, ear defenders, dust masks and gloves.	1	5	5

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Electric, Gas & Water Working on or around live services	4	4	16	Area to be CAT scanned. Mark up assumed line of services. Hand dig around services Refer to drawings Overhead cables to be Identified and Marked out with warning signage. All machine drivers will be briefed on the overhead cable positions	2	2	4
Water Use of water on site	2	2	4	The existing supply may be used if connected.	2	1	2
PCB's Information provided by the Client	2	4	8	Non apparent	1	2	2
UXO Safety Precautions	5	5	25	Refer to Guidance notes and procedure	2	5	10
Public Safety	4	5	20	Erect suitable fencing around the perimeter of the site and erect signage depicting dangers of accessing the area Erect an exclusion zone away from the works as far as possible and in line with the Codes of Practice for demolition BS6187 and NFDC guidance Trained demolition operatives to control pedestrians and traffic if the nature of the works extend outside the exclusion zone for short periods, if duration is going to be longer than a short period a footpath and road closure will be put in place for public safety	1	5	5

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				Erect barriers to prevent access to the working area by others and position signs to warn others Cone off footpaths and roads and position redirection signs at predetermined points on the approach to the area			
Use of Mobile Jaw Crushers Slips, trips and falls Clearing blocked crushers Noise, dust and vibration Machine guarding and entrapment Struck by loading excavators Access and egress	4	5	20	Trained and authorised CPCS operatives to operate crusher and loading excavators only Water suppression to be used to reduce dust pollution Drop height of stone from crusher minimised Noise levels monitored Crusher to be positioned away from residential area where possible Emergency stop buttons and guards to be fitted and in good order Ladders to be provided for safe access and egress Suitable signs and barriers to be provided to warn of the works Ensure safe systems of work are provided, taking in to account clearing of blocked crushers, weather conditions and working around others Wear all appropriate PPE/RPE for crusher operations COSHH assessments to be done for materials likely to be found or produced during works Harness with fixed lanyard MUST be worn at all time whilst on the crusher and working at height Loading excavators must be on a stable hardcore/concrete pad Safe access and egress to the working area and plant Plant and equipment must have keys removed and isolated when not in use or when the operators go for a break Wedges/mouses must not be used to clear blocked crushers as these can cause injury Banksman to be used when moving the crusher and route assessed for safe operation and any obstructions.	1	5	5

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