

Preliminary Project Risk Assessment

<u>Risk/Activity</u>	<u>Initial Risk</u>			<u>Control Measure</u>	<u>Residual Risk</u>		
	High	Med	Low		High	Med	Low
Falls from Height, slips, trips and falls	✓			<p>All works to be carried out in accordance with Working at Height Regulations 2005. Fall arrest and fall restraint systems to be considered as a last option to prevent falls. Handrails and edge protection to be provided for all area where a risk of falling can be encountered.</p> <p>Process of design to incorporate and minimise excessive working at height or material falling from height onto personnel, i.e. temporary sheet piling to areas of excessive height in ground conditions.</p> <p>Edge protection to be designed to be incorporated into the construction of the capping beam and roof slab</p> <p>Proprietary formwork systems to be used that incorporate designed working platforms</p>		✓	

Collapse of excavations to basement works	✓			Method of permanent works to incorporate solution i.e. secant pile wall installed from ground level as opposed to conventional methods of shoring to excavations. All earthwork temporary works and permanent works support to be fully designed by competent design engineer and signed off under a strict requirement of compliance prior to the works progressing		✓	
Noise, Dust & Vibration		✓		<p>Baseline monitoring carried prior to works commencing to allow principal contractor to regularly monitor and control excessive levels.</p> <p>Dust suppression to be used wherever possible. All vehicles exiting the site to be free from debris and loose material to keep highway clean.</p> <p>Limited working hours and all plant to be regularly serviced and have acoustic baffles where appropriate.</p> <p>Breaking down of piles to be carried out by silent hydraulic methods as opposed to percussive breaking.</p>			✓

Stability of structures in temporary condition		✓		<p>Full assessment of existing adjacent structures to be carried out and any necessary temporary works support to be designed and installed as necessary.</p> <p>Review and amend methodology of basement construction works.</p> <p>Regular monitoring of stability and movement of retaining walls in temporary condition</p> <p>Careful planning to execution of works.</p>			✓
Proximity of live services		✓		<p>Detailed sub-scan survey and operation and maintenance manual from demolition contractor to be consulted.</p> <p>Consultation with all statutory authorities of all services adjacent to boundary.</p> <p>Physical non-intrusive survey on site prior to works being executed. Permit to work system in place prior to any works being carried out on site.</p> <p>Statutory authorities to isolate all services within project boundary.</p>			✓

Hot works (welding, cutting and burning activities)	✓			<p>Hot works permit to be in place prior to any hot works, cutting or grinding being carried out.</p> <p>Avoid use of hot cutting wherever possible and all operatives carrying out or involved with hot works to be clearly briefed and fire marshall on duty during all hot works.</p>		✓	
Movement of Heavy plant	✓			<p>All areas of plant movement and pedestrians to be clearly segregated at all times and traffic management plan to be a regularly reviewed and updated.</p> <p>Clear and unambiguous signage in place and key locations for all personnel visitors and operatives alike.</p> <p>Clear instruction and update of all traffic movement to all site personnel during site induction and updates to be carried out as necessary.</p> <p>All reversing plant to have audible and visible indication and a banksman to be in attendance at all times.</p> <p>All pedestrians and general public to have clear unobstructed access to footpath and marshall and/or gate control to prevent plant leaving site coming into contact with general public and entering the public</p>		✓	

				highway without control mechanism in place.			
Explosion & Fire		✓		All hot works to be controlled in accordance with measures stipulated in hot works permit (<i>as detailed in previous section</i>). All gas containers and LPG, propane and the like to be stored in accordance with HSE guidance HSG CS-6			✓
Hazardous Substances		✓		<p>All work method statements and risk assessment to address specific risks of chemicals involved in each operation and all operatives to be briefed on the safe use and disposal of respective substances.</p> <p>All works to be carried out in accordance with the COSHH Regulations 2002 and chemicals on site to be fully assessed relevant to task/operation.</p> <p>All waste and disposal of materials to be in accordance with environmental disposal guidelines stated by manufacturer.</p>			✓
Pollution/Contamination of existing watercourse		✓		<p>As above.</p> <p>All materials deemed as hazardous/contaminated to be fully assessed in the pre-commencement site investigation report and a waste acceptance criteria (WAC) to be carried out</p>			✓

				prior to any material being removed from site. Principal contractor to carry assessment of hazards to watercourses and operatives.			
General public & 3rd parties & Security	✓			<p>General public to be fully separated from the site by a secure timber closed boarded hoarding. All access and egress to be controlled on a 24Hr basis and implementation of active security system. Turnstiles and access and egress control to be in place at all times.</p> <p>All deliveries and visitors to site to be arranged with prior notice at all times.</p> <p>Protection of public walk ways or closure of footpath adjacent to the works upon consultation with TfL and RBKC</p>		✓	
Cranes & Lifting operations	✓			<p>Project lifting plan to be in place and regularly reviewed and updated to allow the effective management of all lifting operations on site.</p> <p>All lifting operations to be undertaken in accordance with Lifting Operations and Lifting Equipment Regulations 1998 (LOLER 98).</p> <p>On site full time lifting coordinator and Appointed person in charge of all lifting</p>		✓	

				operations. Regular coordinated lift management meetings with all contractors / managers.			
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