

DESIGNER'S HAZARD IDENTIFICATION

Project 1765 : Outdoor Services Depot		Designer: RPA Architects	
Stage of Work: Detailed design/Production information			
Date: April 2018			
Ref.	Hazard	Action: avoid, reduce, control	Inform
01	Construction site generally: Adjacent temporary portakabins to be used by client. Surrounding park open to general public. <u>Risk to occupants and members of the public</u> from construction site.	Secure perimeter security fence to prevent unauthorised access. Signage warning of danger?	Architect, Contractor, Client
02	Adjacent temporary portakabins to be used by client: <u>Risk to construction workers</u> from vehicular movement relating to client's activities.	Impossible to avoid. Segregate access routes whenever possible.	Architect, Contractor, Client
03	Adjacent temporary portakabins to be used by client: Risk to construction workers from materials and equipment storage by client.	Avoid: Designate areas/storage containers provided for client storage and secure.	Architect, Contractor, Client
04	Surrounding park open to general public: <u>Risk to members of the public</u> from vehicular movement relating to construction site.	Avoid if possible. Speed restriction signage?	Architect, Contractor, Client

05	Over-sailing: craning/hoisting materials and equipment over public park areas, roads, adjacent premises, occupied areas, circulation routes.	Avoid if possible. Site management issue: contractor's method statement required. Consider early morning/off peak deliveries.	Architect, Contractor, Client
06	Vehicular movement adjacent to scaffolding and changes of level	Construct vehicle barrier alongside working area.	Architect, Contractor
07	Working on live services.	Completely separate and isolate building services from temporary portakabins in client occupation. Record location of remaining live services.	Architect, Contractor
08	Unknown ground conditions	Ground investigation report to be made available.	Architect, Structural Engineer, Contractor
09	General demolition risks: <u>Injury to workers</u> from live services, manual handling, falling materials, uncontrolled collapse, dust.	Services to be disconnected and confirmed by licensed persons. Items to be checked before manual lifting. PPE use at all times – dust protection? Structural stability of existing to be assessed?	Architect, Contractor
10	Noise: Construction within confined space – risk of hearing injury to construction workers.	Impossible to avoid. Programme very noisy work out of normal working hours/when few personnel on site, as much as possible.	Architect, Contractor, Client

11	Steelwork: Cutting/welding/drilling/painting: Especially at height.	Avoid: Factory prepare all steelwork, accurately cut to size. Design bolted connections, use pre-drill holes, prime off-site. Design for assembly on ground and to have fewer but larger lifts.	Architect, Structural Engineer, Contractor
12	Steelwork: erection. Method of erection – on site crane location? Working at height.	Site management issue: Contractor to prepare a method statement for erection of steelwork. Safe working platforms required. Place steelwork straight from delivery lorry?	Architect, Structural Engineer, Contractor
13	Cladding to external walls/roof /ceiling – Working at height, risk of falling: wind lift, manhandling large panels. Fall from height during construction/maintenance.	Site management issue. Provide safe working platforms. Keep areas below clear and avoid other work operations at low level at the same time. Use mechanical fixings to minimise time spent at high level. Method statement required. Minimise working at height: pre-fabricated panels to minimise site cutting, drilling etc. Routine maintenance not required. Roof panels to be capable of withstanding man's weight – use non-fragile materials. Harness anchors to be provided? – consider signage	Architect, Contractor
14	Cleaning at high level: risk of falling	Design feature. Client to use specialist cleaners with specialist equipment on routine maintenance contract. Cherry picker? Mobile tower? Fixing anchors for ladders?	Architect, Contractor Client

15	High level light fittings: Lamp replacement – risk of falling	Electrical consultant to consider life-cycles. Client to implement routine lamp replacement programme using e.g. mobile towers.	Architect, Electrical consultant, Client
16	Surface coatings: Hazardous substances, e.g. solvents	Avoid where possible. Avoid spray painting if possible.	Architect, Contractor
17	Main plant: Manhandling	Avoid, if possible. M&E Consultants to design units that can be easily manhandled and replaced by disassembly.	Architect, M&E Cons.