

<b>MS/RA ref</b>	<b>Demolition Works</b>	
<b>T23118-01</b>	<b>Risk Assessment and Method Statement</b>	

## Site Details:

<b>Contract Name:</b> Boys & Girls Club and Sports Hall Roof, Victory Road, Blackpool		<b>Contract Ref:</b> T23118	<b>Date:</b> 2 <sup>nd</sup> October 2023
<b>Activity:</b> Demolition of former Boys and Girls Club and removal of roof structure on the Sports Barn.		<b>Location:</b> Victory Road, Blackpool, FY1 3JW	<b>Prepared by:</b> Sidney Shorten (Contracts Manager)
<b>Start Date:</b> Wk Comm. ??????????	<b>Contract Period:</b> c. 4 Weeks	<b>Site Manager:</b> TBA	<b>First Issue:</b> 2 <sup>nd</sup> October 2023

## Method Statement:

### 1. Scope of Works

The works can be itemised as follows: -

- Establish welfare on site and create a 'demolition exclusion' zone around the working areas with HERAS fence panels and appropriate signage.
- Carefully remove the roof structure from the Sports Hall using scissor lifts and hand tools.
- 'Soft-Stripping' and removal of any remaining internal fixtures; fittings; chattels; lightweight partitions; ceilings; floors and floor finishes; mechanical & electrical equipment cables; conduits and pipework, and all non-hazardous waste materials from throughout the Boys & Girls Club.
- Demolition of the Boys and Girls Club.
- 'Grubbing-Up' of the buildings floor slabs and foundations.
- Removal of all arising waste from the demolition process.
- Reinststate the site, de-mobilise machines, welfare and fencing and leave it clean and tidy in preparation for permanent works.

### 2. Method

The works will commence following the procedure below, and if at any point something changes which requires amendments to the procedure, then the risk assessment should be reviewed, and the methodology rewritten.

Before the work commences all operatives will be given a site induction which will brief them in respect of the specific site risks and hazards, and all mitigating actions and controls introduced to manage significant risks. Where hazardous materials are to be used, any relevant COSHH assessments will also be explained to those who are likely to be in contact with the material.

The work activity briefing is intended to be a two-way process and all operatives are encouraged to challenge the proposed approach, particularly if they feel that a safer and more practical work method can be adopted.

Access and egress to site for all vehicles will be directly off Victory Road.

At all times careful consideration should be given to the following key elements...

- General site security, and maintenance of the temporary secure demolition boundary fencing.
- Consideration of the location of the site and the likelihood of other site users.
- Avoidance of any above and below ground 'live' services.
- Access & egress routes into site and the number and frequency of vehicle movements.
- Adequate on-site parking for contractors and visitor's vehicles, and for the delivery/removal of materials.
- Noise and dust created by the demolition works.
- The overall 'sustainability' of the project and the need to recycle as much as possible.

**SITE SETUP:**

One of the first tasks will be to establish the welfare unit and to create a demolition exclusion zone around the full site. This will be done using HERAS fencing and will segregate the works from other site users and members of the public. Health & Safety signage will be displayed around the perimeter of the site warning persons in the vicinity, such as pedestrians, and particularly children, that potentially dangerous demolition works are in progress and that all unauthorised persons should stay clear of the works and not enter the site. For those authorised to gain entry the signage will also display the requirements for PPE to be worn; namely Helmets; Safety Footwear and Hi-Vis attire.



**‘SOFT STRIP’ & ROOF DISMANTLING:**

Following on from the site setup the buildings will then be ‘soft-stripped’ internally, which will involve the removal of internal chattels; fixtures & fittings; lightweight partitions; linings; suspended ceilings; mechanical and electrical services; trunking; ducting; bracketry support, and general waste materials; ensuring that the buildings are cleared back to the main shell, so far as necessary, and ready for the structural demolition.

For the roof dismantling works we will use access equipment which will comprise Mobile Elevated Work Platforms (MEWP), thereby avoiding the need for operatives to work from any part of the structure and mitigate the risks of working at height. Our operatives will then strip the roof of the roof sheets, purlins, and skylights which will all be done using handtools.

**DEMOLITION OF SUPER-STRUCTURES:**

Following on from the soft-stripping and asbestos removal works, the structural demolition will be completed using demolition specification excavators, protected with full heavy-duty protection cages; ram & track guards, and ‘side-skirts’, and equipped with specialist attachments such as ‘selector grab’ attachments; steel shears; concrete processors, and hydraulic breakers, like the example photos below:



The structure will be ‘broken into’ with ‘selector grab’ attachments (mechanical hand), by carefully removing a section of the external wall and roof structure, and then systematically working our way into the footprint of the buildings, section by section and dismantling and segregating elements of the structures and stockpiling ready for removal from site.

Selector grab attachments allows us to de-constructed the buildings piece by piece in a ‘top-down’ method, rather than simply knocking things over, and therefore by approaching the dismantling in this way it minimises the ‘freefall’ collapse of structures; allowing only small elements of the structure to fall into the demolition drop zone.

We will generally work from within the footprint of the buildings; folding and dismantling the structure ‘inwards’; as opposed to working from around the outside perimeter, and we aim to keep as much of the external wall intact for as long as possible to help contain any noise and dust.

We do not anticipate using any ‘hot-works’ to cut steelwork, as the specialist attachments should be able to remove all the steel structure section-by-section. If any ‘hot-works’ are required, then these will be strictly controlled in line with our ‘Hot Works’ Permit system.

During the demolition works, all areas below and surrounding the structural dismantling work will be strictly kept free of all personnel. The structures will be progressively worked from one common face, and care will be taken not to de-stabilize any main structural supports out of sequence. Elements of the structure; particularly large

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structural steelwork elements, will generally be lowered to ground level where possible, as opposed to allowing large sections to 'free-fall' so as to minimise impact noise; loose material ricochet, and dust.

All waste materials arising from the soft-stripping and demolition activities will be segregated into the different waste streams and temporarily stockpiled before being placed into 'Roll On-Roll Off' skips and 'Tipper Wagons' and removed from site for recycling or sent to landfill...we always aim to recycle as much material as possible and the largest percentage of the material arising from the works will be recycled.

**REMOVAL OF SUB-STRUCTURES:** Including Floor Slab and Foundations.

Once the ground floor slabs have been cleared of the superstructure debris it will allow the slabs, foundations and redundant drainage to be broken out and removed. Our excavator fitted with a toothed bucket and hydraulic breaker will then be used to break the ground floor slab.

The ground floor slabs will be broken out and grubbed-up will be lifted and stockpiled before being loaded into HGV wagons and removed from site. The excavator will then systematically expose, excavate, and break out all the buildings foundations and all redundant drainage to a depth of 1.2 metres and stockpile the arisings ready for removal off site.

Any resulting voids created by the removal of the slabs and foundations will then be backfilled with selected demolition material.

**GENERAL HEALTH & SAFETY OVERVIEW:**

The majority of the demolition and waste collection activities will be carried out from the safety of the machine's protected cabs, and from within the cabs of 'hook-loader' HGV's, with little involvement from operatives on the ground, and therefore the interface between machinery; plant and other site operatives is minimal. However, if at any stage machines, or wagons are operating close to areas where other site operatives are present, then we will consider using a 'Banksman' to safely control the movement of plant and machinery, and to ensure the safety of site operatives; particularly during instances where vehicles need to reverse.

Control of safety in and around the demolition zone is of paramount importance, and especially when heavy machinery is dismantling and processing large volumes of material. Our excavator operators are fully trained individuals who have good visibility from the cab of the machine and via 3 external rear-view mirrors... more importantly most of our fleet of new machines have the benefit of Advanced Around View Monitoring system (AAVM).

The AAVM system is a 360° all-round virtual operating view, which displays on the cab's 8-inch cluster monitor, it also incorporates an Intelligent Moving Object Detection system (IMOD) that senses and warns the operator when objects come within working distance of the machine. This has revolutionised machine operation, making it safer than ever and ensuring that nobody can inadvertently wander into an excavator's area of operation without the machine operator being aware.

All our machine operators are suitably trained and as a minimum will have the relevant CPCS Competent Operator Certification. All site operatives will have CSCS Site Operative Certification as a minimum, and the majority of operatives and machine operators also have UKATA Category A 'Asbestos Awareness' training...those involved with the removal of asbestos containing products; also have UKATA 'Category B Non-Licensed Asbestos Work' training, and as the demolition progresses, they will be alert to the potential presence of any additional asbestos, which may have been missed during the asbestos survey works.

If at any point any works are required to be carried out at high level, then this will be carried out by hand with operatives working out of Mobile Elevated Work Platforms (MEWPs), or from lightweight alloy tower scaffolds. Those operating MEWPs will have the relevant IPAF Training Certification, and those erecting alloy towers will have the relevant PASMA Certification.

During the demolition and dismantling activities, any materials arising from the works will be carefully picked and segregated into the following categories:

- Asbestos containing materials (Hazardous Landfill) – **None on this scheme**
- General waste products (Sorted and picked via a local Recycling Centre)
- Metals –Ferrous & Non-Ferrous (Recycled via local Metal Recyclers)

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- Timber, Glass and Plastics (Recycled via a local Recycling Centre)
- Stone & Slate (Recycled via our own Stone Yard in Accrington) – **None on this scheme**
- Concrete; Blockwork; Brickwork & Macadam (Recycled via our recycling yard in Accrington)
- Vegetation and Green Waste (Landfill site for composting, where possible – **None on this scheme**)

As the work progresses, at the end of each shift, inspections by either the Site Manager, or the Foreman in charge will determine what temporary measures, or protection, if any, will have to be implemented to make the works safe until the commencement of the next shift.

On completion of the works the site will be left in a clean and tidy state; ready for the permanent works to commence, by others.

**“Exercise common sense and good housekeeping at all times”.**