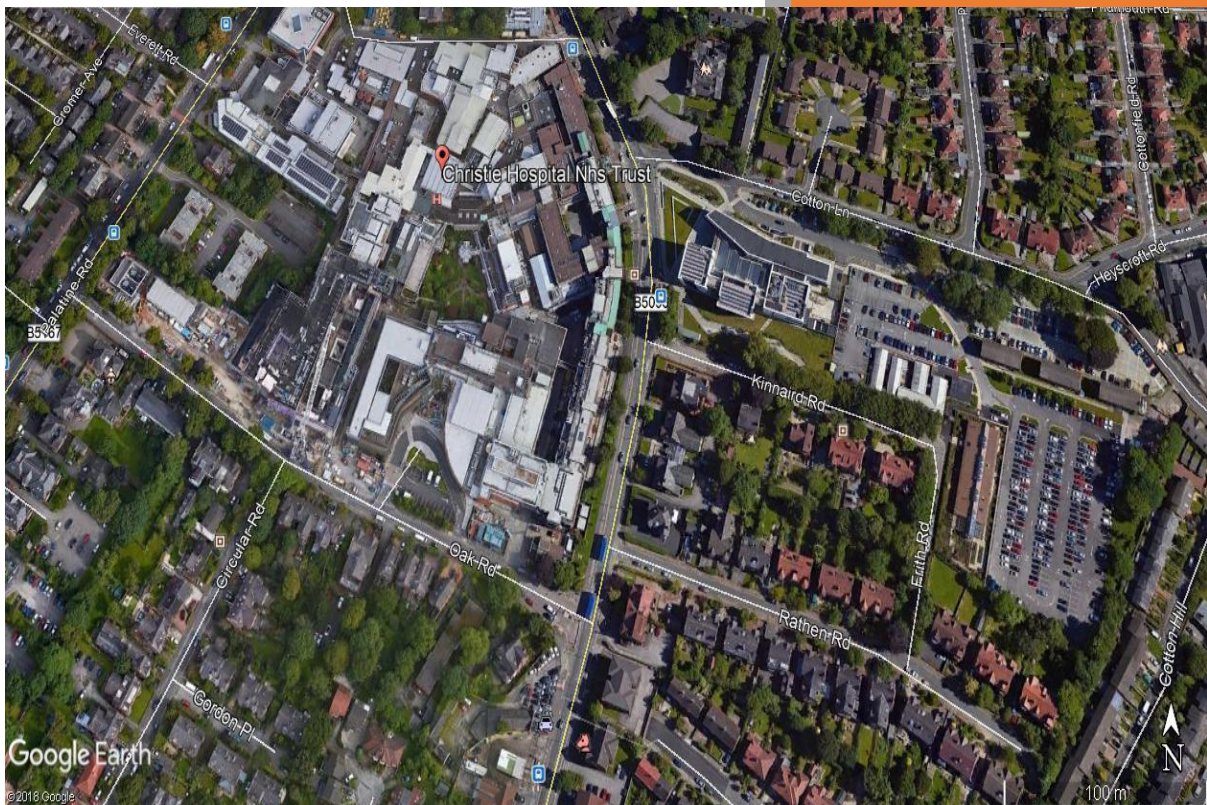


BRADLEY DEMOLITION



The Christie
NHS Foundation Trust

Christies NHS - OUTLINE METHOD STATEMENT



CLIENT:

The Christie NHS Foundation Trust

PROJECT:

Cotton Lane Withington M20 4UX
Blocks B & C

DOCUMENT AUTHOR:

Michael Degnan – H&S Co-ordinator
michael@bradleydemo.co.uk

METHOD STATEMENT Rev 1

Date: 15/10/2019

BRADLEY DEMOLITION LTD

Bradley House
Kent Street
Preston
PR1 1PE

TEL: 01772 280256

enq@bradleydemo.co.uk

www.bradley-group.co.uk



BRADLEY DEMOLITION

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1. Document Status			
Prepared By:	Role:	Date:	
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Accepted for implementation. Work may proceed as planned			
Not Accepted for implementation. Re-submission required			

Document History

Review Date:	Review No:	Page No:	Comments/ Amendments	Initials:
03/10/2019	1	All	Initial Issue	M.D

2. Project Details	
Project Address:	Block B & C The Christie Staff Car Park; Cotton Lane Withington M20 4UX
Client:  The Christie NHS Foundation Trust Department 23, Wilmslow Road, M20 4BX	Name: Mackayla Colwell, Address for Communications: Mackayla.colwell@christie.nhs.uk
Principle Contractor:  BRADLEY DEMOLITION	Bradley Demolition. The Yard, Kent Street. Preston. PR1 1PE Project Manager: TBC Eng@bradleydemo.co.uk Tel: 01772 280256 01942 833666

METHOD STATEMENT FORM	
Date:	15/10/19
Revision:	1
Title:	Outline Demolition Method Statement

Description of works:

The demolition project is of the former Nurses accommodation blocks B&C set to the East edge of the Christies Hospital complex. It is centre to car parks North, South & West for visitors, with St Cuthberts RC primary School just beyond the North car parking area, the Maggie Centre to the Southwest and residential properties to the East of the Project. It will require strict control measures to deconstruct safely the two storey buildings by mechanical means in phases in a top down, one structural element at a time sequence, within the footprint of the building down to ground level, keeping structural stability preventing premature collapse, process all demolition arising and remove all waste from site.

Key Risks:

- Pre-mature structural collapse
- Falling Debris
- Damage to the adjacent environment
- Plant & Vehicle Movements
- General Public
- Dust
- Noise

Reference Documents –

1. BDL SOP – 002 - Site Set Up and Maintenance
2. BDL SOP – 003 - Heras Fencing
3. BDL SOP – 012 – Banksman
4. BDL SOP – 005 - Mobile Plant
5. BDL SOP – 035 - Manual Handling and Lifting & Risk Assessment

Location & Surrounding Area

North	Carpark Area, Cotton Ln, St Cuthberts Primary School
South	Carpark Area, Maggie Centre
East	Agricultural elements Trees etc, Residential area
West	Complex Access Rd and Carpark Area



Duration of works	8 Weeks
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Working Hours:

Site Working Hours

Weekdays: 07:30 to 18:00 TBC

Saturdays: 08:30 to 14:00 To be agreed with the Client (NHS) with reasonable notice prior commencing

Sunday: No

Night work: No

3. Project Arrangements

Welfare:

Provided by Bradley Demolition.

Washing & Drying room	✓
Drinking Water & Cups	✓
Toilets	✓
Canteen seating, Microwave & Kettle facilities	✓
First Aid Box will in the Site Office	✓

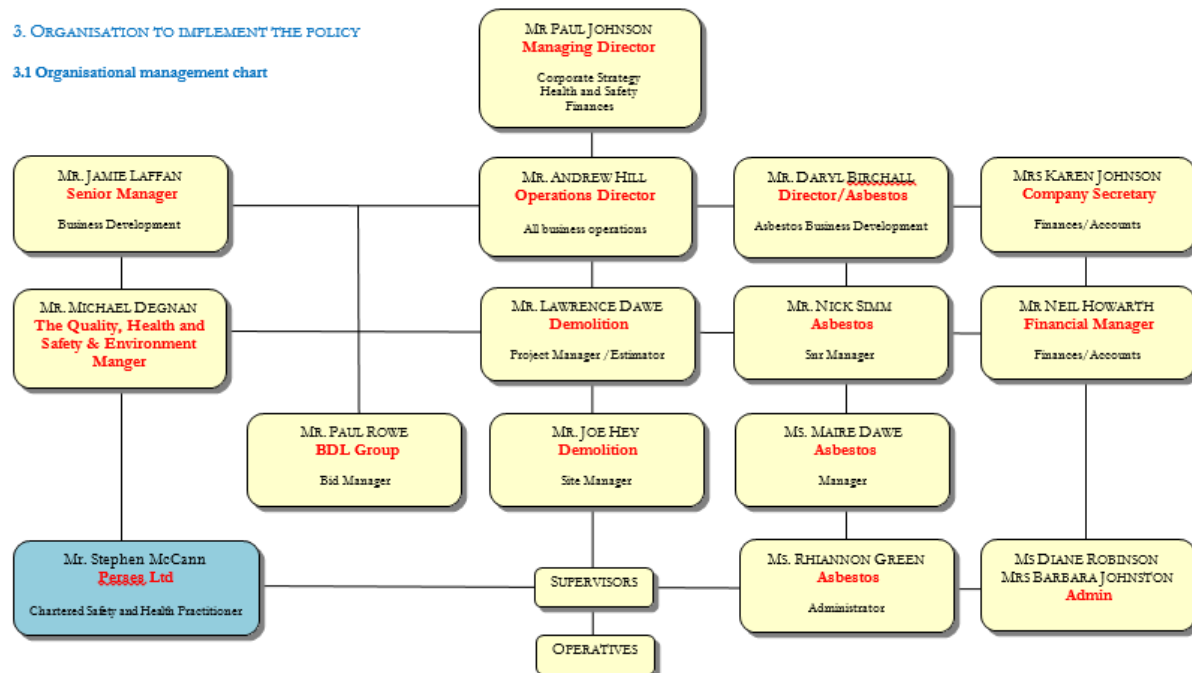
Site Management:

Bradleys will deploy highly experienced and competent Demolition site team that will include Site Supervisor CCDO Gold card, CCDO/CPCS Demolition Operatives and Plant Operators with years of experience of safe demolition of multi storey buildings.

The CCDO Site Supervisor will oversee the day to day running of the works, including all the necessary paperwork and the safe completion of the demolition project. They will be assisted throughout the project by the Operations Director and HSEQ Manager.

3. ORGANISATION TO IMPLEMENT THE POLICY

3.1 Organisational management chart



Arrival:

Upon arrival to site, contact Bradley Site Manager, and attend the NHS trust induction and BDL site induction within site office. All Welfare provisions and emergency procedures will be detailed within this induction. Bradley supervisor will then deliver the site specific plan of work and risk assessment to operatives. All equipment and vehicles will be stored/parked in line with the traffic management plan provided BDL.

Access & Egress

Pedestrian access/egress and Vehicle and delivery access will be from Cottons Ln, Northwest of the Project. Vehicles must adhere to the 5mph speed limit. (See marked up plan) (Note: Delivery Access Times restricted, to be booked in advance with Client)

KEY NOTE: Access to Site – Access via Main Car park. Drop off at back entrance only authorised for 1 machine drop off / pickup on a Sunday or Saturday morning. NO PARKING ON SITE.

Services

All services are to be isolated by the Client Christies NHS Foundation Trust from the mains at the site boundary by an approved competent contractor and certificates of isolation must be submitted to Bradley Demolition Management and Site Supervisor prior to Demolition works. Temporary water supply has been provided in Block A by the Client this will require monitor.

Environmental

Asbestos

Asbestos Containing material identified in the Acorn R&D Surveys will be removed by Bradley Licensed Asbestos Removal Dept. prior to demolition. (Plan of Work submitted separately)

The R&D survey must be consulted and reviewed continually prior to any works commencing.

Asbestos materials have been identified within the building structure and there is no interface with enabling works at this stage. However where doubt may arise then work must **STOP** immediately, inform your supervisor, segregate the area with barrier system and signage and restrict access to the area.

Dust Control Strategy:

Water Supply located at Block A provided by the Client; Christies NHS

Any dust generated during the works will be suppressed using water. This will be achieved using hoses connected to the mains water operated by competent operatives. Motofogs, Plant intergrated water suppression systems and Pressure Sprayers operated from MEWPs will be utilized to suppress any dust generated. IBC water tanks will be filled with water and positioned a safe distance away from the work face. Once connected the motofog, pressure sprayer will allow water to be targeted directly at any source of dust. Supervision to monitor the works and ensure that any potential dust is suppressed at source.

Dust protection screens will be erected & applied when necessary to protect the public, adjacent buildings.

Hand held low pressure sprayers filled with water will be applied during small hand demolition work i.e. soft stripping.

MEWP Operated by experienced competent IPAF trained operatives.

Noise Reduction Strategy:

Bradleys will approach noise with a sympathetic attitude, that utilize equipment such as rotating Selecta grabs, Shear steel cutting equipment and concrete pulverisers over noisy equipment as breakers

All plant, tools and equipment shall be maintained regularly to ensure that they are fit for purpose and working efficiently. Noise levels will be monitored during the works to ensure that they remain at a satisfactory level. If noise levels elevate above 85 decibels then all workers must wear appropriate PPE (Ear protection EN 352-1).

Noise levels outside the site boundary will also be monitored, if unacceptable levels are found then a revised method must be adopted or additional control measure implemented. All noise level readings will be documented in the onsite file.

Previous works of this nature have been carried out and have had noise assessments produced. A table summary of these results is shown below for reference.

Anticipated Noise Levels:

Activity	Noise produced at Source	Noise produced at site boundary minimum 20 metres
1, Background noise levels.	50-60 dB (A)	50-60 dB (A)
2, Traffic passing on roads.	Average 69dB(A)	Average 69dB(A)
3, Mechanical Demolition with breaker attachment.	97 dB (A)	77 dB (A)
4, Mechanical Demolition with shear attachment.	89 dB (A)	69 dB (A)
5, Mechanical Demolition with pulveriser attachment.	86 dB (A)	66 dB (A)
6, Mechanical Demolition with rotating grab attachment.	84 dB (A)	64 dB(A)
7, Mechanical Demolition with bucket attachment.	81 dB(A)	61 dB(A)

"The above noise levels will be adhered to during the demolition of the structures on the Site."

Waste:

Waste materials will be removed from site in accordance with current legislation and Bradley's upper tier waste carriers license

All waste will be segregated at source, put in to the correct temporary waste stream stockpiles as the demolition works progress, loaded in to designated skip wagons.

Waste will be cleared from site daily, preventing build up and leading to further hazards.

Asbestos waste will be packaged and transported to the designated lockable skip and removed from site to the licensed landfill site in accordance with CAR2012

All general waste will be sent to reputable transfer stations for recycling.

Masonry & Hard core will be sent to reputable companies to be crushed and recycled for further use.

Manual Handling

Works to be undertaken in a logical sequence to avoid manual-handling operations so far as is reasonably practicable and where appropriate materials to be handled by mechanical means or lifting Aids

Where necessary a manual handling risk assessment to be carried out and recorded by a competent person.

Routes to be planned, size and weight to be assessed and the number of competent persons required to carry out the task. Ensure suitable rest periods and rotation of the tasks preventing fatigue. **(Reference Doc - BDL SOP – 035 - Manual Handling and Lifting)(Manual Handling R/A)**

Setting up Zones:

Suitable Site Boundary Exclusion Zone will be set up around the work areas as the demolition sequence requires using Heras fencing 2m x 3m, double clipped with triangular sections at periodic intervals to ensure stability of the fencing, with **Client Specific** Debris Netting applied. **Specification: Heavy duty commercial fire retardant windbreak white heras fencing netting. (Doc Reference: BDL - SOP - 003)**

Barriers/Panels will be transported safely following designated predetermined routes to be agreed prior, by mechanical means to the areas of installation, reducing the need for manual handling. However a minimum of two operatives will work together when lifting panels in to position and installing the fence lines.

Two Operatives will safely lift the panels in to position, placed in to the feet, and panel will be double clipped using suitable hand tools and secured with triangles set every two panels. It is important to check any hazards along access routes and all movement will involve a minimum of two operatives.

Debris Netting will be applied as per manufacturer's instructions. Using tie wraps connected through the designed openings in the netting and fixed to the Heras fencing.

Warning signs will then be attached, these will consist of:

- Danger demolition in progress
- Danger demolition exclusion zone
- Danger drop zone.
- Danger Asbestos

All BDL fencing will be monitored regularly by Operatives and kept in good order including signage.

Vehicle Marshalls/Banksman:

Competent trained operatives acting as Vehicle marshals will be placed at strategic prominent positions externally around the site access points, escorting and monitoring vehicles movements in and out of site, ensuring safe access, preventing interfacing with pedestrians and other vehicles.

KEY NOTE: Banksman/Vehicle Marshalls will maintain a clear line of sight visual and verbal communication with plant/vehicle operators during operations when necessary.

Traffic Marshals/Banksman will where necessary engage with the public in a polite and professional manner to redirect the public around and away from the works.

Internal Site Operations - Banksman will remain vigilant and keep a visual on the structure and report any unsafe situations that may arise and notify their supervisor immediately of the situation for whom will act with appropriate remedial action.

Banksmen to monitor and to be in attendance during plant/vehicle movements internally when moving from one demolition zone to another.

Operators to ensure that banksmen are a safe distance away and not within the designated exclusion zone.

Banksmen to be in contact with Supervisors & Operators verbally, visually with the plant/vehicle operators and where necessary using two way radios. They will monitor and prevent un-authorised entry into the zones and that all plant movements are carried out without incident.

The location and size of work zones to be established each day and briefed to all personnel during the daily briefing.

Emergency Arrangements

As per Bradley induction:

Evacuation assembly/Muster Point as per Bradley induction.

All site personnel will report to the muster point if safe to do so.

A suitable first aid box will be made available.

It will be held in the site welfare cabin.

Principal Contractor BDL will supply qualified first aid representatives.

In the unlikely event that there is a premature collapse of the structure: (See emergency evacuation plan)

During the course of the works communication will be maintained through good clear verbal instruction with use of two way radios when necessary especially during emergency procedures from supervisor to operatives.

Accident Procedure

If an accident occurs the Site Supervisor will follow Bradley Demolition Ltd emergency arrangements site procedures, as set out within site induction.

Inform BDL H&S representative immediately.

All accidents will be thoroughly investigated by the BDL Site & H&S representatives. They will assess the degree of competence adopted, as to whether the incident is likely to re-occur if the methods adopted continue to be used.

Bradley Demolition Ltd safety consultant will be informed of the incident and will undertake an investigation where required and report sent to HSE.

Emergency Procedures

- Means of raising the alarm: As per Bradley's induction emergency procedures. In addition Bradley competent operative will use an air klaxon which will be blown for approx. 5 seconds repeatedly alerting others in the work area, however they must also alert others and follow the Site Emergency Evacuation Procedure as set out in the Bradley's site induction and where necessary use Two way radios and wait at the muster point for further instruction.
- No Hot Works. (Hot works - cutting steel or metal using cutting discs or Gas Axe cutting where sparks are omitted) envisaged at this stage. However hot works carried out under

a BDL hot works Permit regime. Fire Watch will be continual throughout the works process and one hour after the works are completed.

- In the unlikely event that there is a premature collapse of the structure:

Assessment of Significant Risks:

Pre-mature Structural collapse:

- The Two Storey Structure will be deconstructed by mechanical means, removing operatives from the hazard zones, in a phased sequence one structural sections at a time in a top down manner as per this method statement. Works to progress in slow methodical manner allowing the site team to continually assess the structure and apply any changes and controls measures when necessary following consultation with all the relevant parties.

Removal of Masonry/Concrete Materials.

- Dust to be suppressed at the work face (Source) i.e. damped down via suppression from Integral Machine suppression system, MOTOFOGS and Pressure Sprayers placed at strategic positions around the work area. Debris netting or Dust protection screens to be established at key locations

Injury to unauthorised Personnel:

- Fencing provided by Principal Contractor. Exclusion Zone Fencing, Safety signage and Debris netting where appropriate to be erected around the works by BDL. BDL Supervisor and appointed persons to check integrity on a daily basis;
- BDL operatives to monitor entry and exit into exclusion zone works area;

Bradley managed plant/vehicle manoeuvres:

- Plant to have 360° vision;
- Integral rear view camera and mirrors to be present, working, clean and maintained
- Plant to be operated by a competent driver, trained to CPCS/NPORS
- Plant to be guided by a trained Vehicle Marshals/banksman;
- Plant to be regularly maintained.

Risk of fall:

- No work at height envisaged during the mechanical demolition phase.
- All works at height to have to be in accordance with legislation and to conform with the risk assessment;
- Compliant access equipment to be used from competent hire firm.

Fall of materials:

- Exclusion zones / designated drop zones around immediate work area to be controlled at all times.
- Mechanical demolition carried out in a logical top down sequence surrounded by suitable fenced off exclusion zones with appropriate signage, preventing entry to the hazard zone (Debris Zone)

Also, the following topics of concern are included in the attached Risk Assessment:

Trespass by unauthorised personnel	Access and egress
Interaction with residents and public	Plant operations & movements
Physical Activities	Working at Height
Manual Handling	Health Hazards
Mechanical Demolition	Premature collapse
Pulverising Dense Concrete	Using hydraulic breaker
Hot cutting	Fires & Explosions
Storage of materials	refuelling of plant
Waste collection	first Aid

Additional Control Measures:

- All operatives and visitors will be required to sign on and off site daily with BRADLEY SITE TEAM, in addition to this, all visitors to the project will be escorted by a competent person;
- An induction and Method statement briefings, toolbox talks is to be given by Bradley's Site Manager in accordance with Bradley Demolition Ltd company policy prior to commencing work on site;
- After completion operatives are then to put on PPE as required and transfer all necessary equipment to the working area.
- All power tools to be used are to be either 110V or cordless. Where a generator is to be used for 110V power and must be earthed either by the integral generator earthing system or earth spike to the ground.
- All plant operatives will be CCDO/CPCS registered and will have copies of their certificate with them for inspection;
- During the site induction all personnel will be made aware of Bradley Demolition Ltd Site Rules, Accident Reporting and Site Emergency procedures.

- Operatives will be required to confirm they have received the induction, method and risk assessments.

Additional Controls Cont.

- Statement briefings by signature and a copy of this will be kept in the Site file.
- All areas of work will be supervised at all times.
- The Supervisor to constantly assess the ability of each operative with regards to their Skills, Knowledge, Ability, Training & Experience and their ability to complete the work in a safe manner without incurring risks to himself or third parties.
- The Supervisor will be in possession of a set of documents relating to the sequence of work.
- As each new area of work is approached, the site supervisor will communicate with the site operatives in respect of the works to be executed, in which areas they are to be executed and, most importantly the factor of risk likely to be encountered during each specific operation.

PPE

Bradley Demolition Ltd will issue all Bradley site personnel with standard personal protective equipment.

Key Note:

Rigger boots are not permitted on Site.

Safety wear will generally comprise of the following:

Hard hats, Cat 5 hand protection, footwear against risk of penetration and impact, high visibility vests, safety glasses to protect against airborne particles during soft strip and cutting operations along with hearing protection where required.

All personnel will be issued with the necessary PPE for the task in hand and must wear it at all times.

PPE Compliance Codes

Safety Helmet EN397:1999 5/A 1:2000 	v	Hi-Vis Clothing class 2 warning clothing EN147 	v	Ear Protection EN352-1 	v	Gloves high resistance construction EN388 Factor 3543 	v	Respirators P3 Sundstrom Sr100 ps x 20	v
				Safety Boots EN345 	v			Dust Masks ffP3 filter	
White coverall CAT 3 Type 5/6 EN 1073-2		Fire retardant Coveralls EN11612 EN11611 For Hot Works		Eye Protection EN166 class F & Class B impact 	v	Visor / shield EN175		Safety Harness & Lanyard EN 361:2002 & EN 358:1999	
						Gauntlet EN 388 Cat 2, 3124			

* RPE nasal / oral P3 protection to be worn when necessary

*All operatives must be FACE FITTED and CLEAN SHAVEN before wearing and using half mask

4. Scope of Works

The demolition scope is as per agreement with Client, One Manchester & Bradley which in summary comprises:

1. Induction process as set out by the NHS Trust & P.C. Bradley Demolition.
2. Bradley Contracts Manager will then deliver the site specific Plan of Work and risk assessment.
3. Bradley to take delivery of Plant & Equipment.
4. Establish Exclusion & Drop Zones around the work areas as per sequence.
5. Establish position of Vehicle Marshals/Banksman.
6. Sub-contractor to establish and erect the scaffolds.
7. Asbestos removal.

8. Set up Water Dust suppression systems.
9. Demolition of two storey building in a phased sequence, one building at a time.
10. Removal of waste of site.
11. Apply remedial works to ground concrete slab as per Client requirements.
12. Safely Decant & demobilise site

5. Methodology

All works will be carried out in accordance with British Standards and current legislation. Bradleys Site team will be constantly assessing the works and liaise with the Bradley Management and incorporate any changes to the Sequence of works or Method Statement that is required and re-issue a signed Statement Daily Tasks & Risks will be briefed and documented in the daily Task Briefing site form and filed in the Site File.

Project RAMs to be developed, approved and submitted prior to the tasks commencing, (Including the, Removal of Clients Debris, Mechanical Demolition etc) Asbestos Removal Plans of Work will be submitted separately (BDL Asbestos Dept)

Loose Furnishings/Debris

- All the loose furniture/furnishings/debris will be transported TO THE DROP ZONE (See DROP ZONE PROCEDURE) using suitable wheelbarrows/boogies to the designated drop zone.
- All furnishings that is too big or bulky/awkward will be dismantled using hand tools into smaller manageable sizes. (Manual Handling risk assessment may be required to be completed by competent persons on site).

Mechanical Demolition

Description

The Scope is to demolish the two storey building in a top down manner within the structural elements, ensuring structural stability at all times while protecting the workforce, adjacent features & public (Sequence may change due to additional information). The building

consist of a 2 storey traditional built structure with flat roof, masonry brick & block walls, glass window infills, concrete floors and masonry infill panels, remove waste from site

Pre-demolition Checks

- All Site employees inducted in to the RAMs & Daily task briefing prior to commencing.
- Service Disconnection certs.
- Licensable ACMs, issue 4 stage clearance certs to BDL office & site.
- Non Licensable ACMs, issue visual/background/Air monitoring tests to BDL office & site.
- Check the structures for voids, basements, ducts, cellars etc that may endanger plant movements above.
- Inspect the buildings for un-authorized entry.
- Assess the structural elements i.e structural walls, roof supports, stair cores etc for damage.
- Apply appropriate PPE for all tasks.
- Exclusion/Drop Zones and Access Routes, including appropriate lighting and signage are suitably established and secured around the work areas.
- Means of communication established, checked and maintained
- Banksman positioned at strategic positions around the project
- Plant & equipment are inspected and in good working order including the Crane and Lifting equipment.
- Means of suitable water dust suppression have been established and ready.
- Selection of the appropriate sized machine with attachment for sequencing and starting position.

Deliveries

- Delivery access initially will be via Cotton Lane down through the carpark and then on to the demolition site
- Delivery Times: 08:30 -17:00pm Mon – Fri & Sat 08:30 – 14:00pm
- Competent demolition supervisor to access the immediate area where the demolition machine is to be tracked off. (Holding Area)
- Where protective measures for footpath or roads may be required operatives will apply timber sheets.
- Fill out manual handling Risk Assessment for this. (Form in site file).
- Ensure low loader machine will fit through entrance.
- If not, machine will be off loaded in the area outside the entrance, and tracked through onto site.
- Competent and trained low loader driver from reputable service provider to arrive at the site entrance with the demolition excavator safely affixed to low loaders bed.
- Ensure safety items such as flashing beacons and reversing siren are working.
- Driver to stop engine and apply handbrake/dead man before exiting vehicle to liaise with the supervisor.
- Pedestrians / non-essential operatives will be temporarily stopped by banksmen. Banksmen will stand in safe positions as stated by low loader driver and supervisor.
- If necessary, for a short duration, banksmen may temporarily need to stop traffic, if when unloading the vehicle, highways are encroached upon by the movement of the plant.
- Banksmen will stop traffic for the time that the machine is unloaded from the low loader frame.
- Trained banksmen will use clear hand signals and verbal instruction to control traffic.
- Any ramps or materials used in offloading the plant will be supplied by the competent haulier company.
- Trained and competent driver will be experienced with methods of loading and offloading plant and equipment using step frame ramps to the rear, and 'side off' loading from larger low loaders.
- When offloading the machine from the side or rear of the carriage, trained and competent driver will use the '3 points of contact' method.
- Ensure low loader bed is as clear as possible before moving.
- Offloading from the side of the trailer will occur by the competent operative moving the bucket attached to the dipper arm onto the ground at the side of the low loader.
- This will support the weight of the machine as it tracks off.
- The machine will track forward on the frame and then turn the machine tracks to track off the side of the low loader.
- The machine will track off, onto the ground level.
- The machine driver will then slew the dipper arm and bucket off 180o and plant it down again to support the plant movement.
- Operator will move the tracks again and move the machine completely off the low loader to ground level.
- The machine will then track into site through the entrance.

Demolition Sequence

- Mechanical demolition sequence will commence on Block C, and proceed through to Phase B once all pre demolition checks have been completed area by area. Dig up, remove concrete floor slab & grub up foundations.
- All Mechanical Demolition to be carried out in accordance with this outline Method Statement and the Daily Briefing as the works progress.
- All works carried out by suitably competent, trained Operators/Operatives.
- All plant & equipment used during the works must be inspected by competent person before the start of the shift. These inspections must be documented in the onsite plant inspection folder. Any faults or damage must be reported to supervision immediately. Do not use any plant if any faults or damage are present.
- All buildings will be identified and will have suitable exclusion zones set up around them using Chapter 8 barriers & block & mesh heras fencing double clipped together with the correct signage, preventing un-authorised access to these areas.
- Set up and apply appropriate water dust suppression to the demolition face when necessary.
- A thorough inspection of all buildings must take place to ensure no unauthorised access has been gained. This will be completed by both supervision and plant operators.
- Mechanical Demolition will be carried out using suitable certified 360 Excavators fitted with compatible attachments suitable to the specific task being carried out.
- Demolition will occur with the machines working in a top down manner, working through the non-structural 1st and then the structural elements 2nd. Working through the buildings footprint, working one structural section up to the next, clearing the waste periodically, ensuring structural stability of the remaining building at all times.
- The competent CPCS Plant Operator will 1st position his excavator with rotating attachments to the East side Gable End Block C point ready to commence and follow the sequence Phase by Phase. (See Appendix Mechanical Demo Sequence plan)
- Competent operatives will assess each element of the structure and chose the correct attachment to process the demolition works.
- Where materials, i.e Roof sections, Masonry walls, timber frames and window sections can be peeled away safely operators will use the rotating grab.

- Masonry walls can be pushed in to the building footprint or peeled away in to the debris drop zone if safe to do so using either of the attachments.
- Structural concrete will be accessed and crushed using the pulveriser attachment. Concrete may require weakening if necessary using the hammer attachment.
- Concrete staircase will be pulverised in a top down manner. Concrete floor slabs and beams will be crushed using the pulveriser attachment working in a top down side to side manner ensuring structural stability of the remaining building.
- Where there may be some steel elements hidden within the structure, all steel work will be accessed, cut & pieced down in a logical sequence top down/side to side, using the rotating shear cutting attachment. Steel columns will be cut as close to the ground level as possible.
- All waste materials will be segregated and be placed in temporary stockpiles until loaded in to designated skips/wagons when appropriate.
- 1st peeling away the roof section using the most suitable attachment one section at a time.
- 2nd peel away and remove window sections using the rotating grab and place in stockpiled
- 3rd Peel away or knock in to the footprint the external masonry walls exposing the structural elements of the building.
- Demolish the structural elements in a top down/side to side manner through the buildings footprint, working one structural element section up to the next. Ensuring stability of the remaining sections.
- 4th Demolish the structural walls down to the next floor level in a top down/side to side manner through the buildings footprint, working one structural element section up to the next. Ensuring stability of the remaining sections.
- 5th Demolish the concrete floor slab using the pulveriser side to side manner. Concrete floor to retain 3 sides of contact as the process progresses through the buildings footprint. Working one structural element section at a time. Ensuring stability of the remaining sections.
- Repeat the process until safe demolition of the structure is complete.
- Waste will be segregated and loaded in to the designated skips.
- Hard core waste, masonry and clean concrete will segregated ready for removal of site.

- Concrete slabs & Footings
- Description
 - To break and dig up in sequence the hard standing ground level using the machine with attachments, processing the waste ready for crushing and backfill the excavation immediately during the process.
 - Bradley Supervisor to complete the permit to dig (Site File)
 - Prior to removing the slab or foundations the Bradley competent trained person will CAT Scan the area using a cable avoidance tool and Genny and issue a Bradley Demolition Permit to dig.
- Considerations:
 - Services! Establish proximity of any live services.
 - Voids! Establish proximity of any sub voids.
 - Form exclusion zone around slab.
 - Apply signage / tape / bollards / barriers if no banksman and other trades on site.
 - Operatives competent in the use of demolition machine may require to track onto the floor slab.
 - The banksman will be standing in a position away from the work area but will have clear sight of the work being accessed.
 - Operative will apply the machine attachment to the concrete floor slab corner. He will begin the lifting and breaking process and will track backwards. May be on the slab, progressing through to the rear.

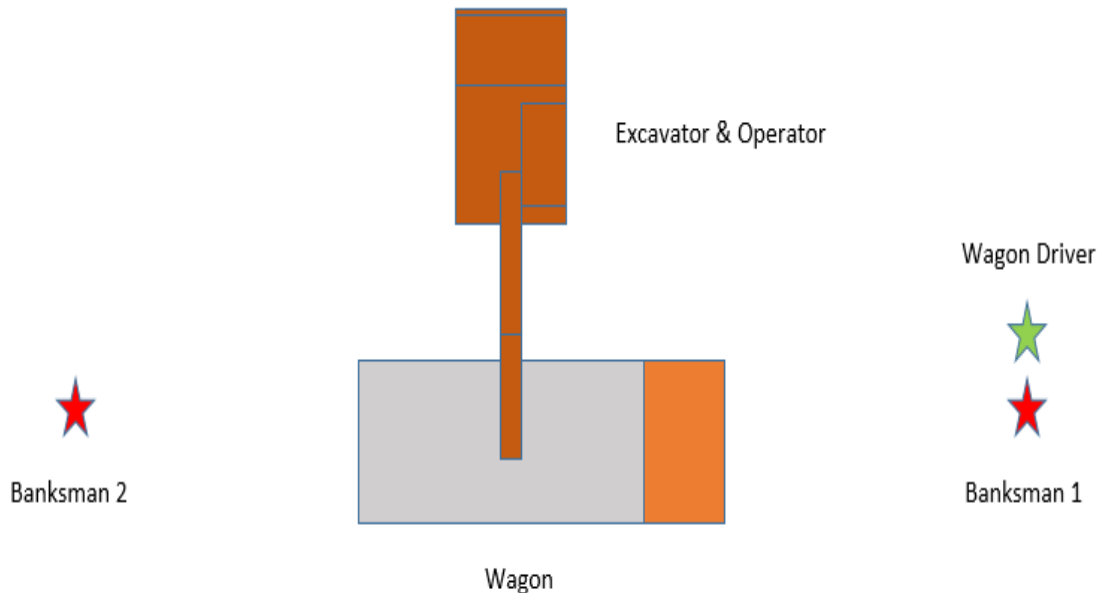
Sequence

- Concrete will be removed in broken sections at a time.
- Bucket attachment may be used to access under the corner of the slab, this will then be lifted and a piece of the slab will break away from the remaining slab section.
- Sections may be required to be pecked through using a suitable breaker attachment. The bucket will lift sections of slab and will break and dislodge from the remaining ground floor slab.
- Demolition scope may be wet down with hoses, where dust levels rise from activity. Supervisor / controller to assess.
- As broken sections are displaced, footings will be exposed. These will be dug up and debris will be set down.
- The competent operator will track backwards on the intact slab in the demolition machine in order to access more slab.
- The process of lifting and breaking will be repeated.
- Debris will be removed by the demolition excavator machine. Debris will be loaded by buckets and then placed in the short term stock pile within the EZ.
- All demolition machine movement will be banksed or segregated from main EZ.
- Debris set down for munching process. Broken pieces of slab further munched into smaller sections for crushing activity later on in programme.
- Excavations to be back filled, battered back or have edge protection / fencing / warning signs applied where necessary.

Loading skips/wagons

- Once the waste has been safely transported to the designated stockpile area, excavators will segregate and process the waste ready for removal from site.
- Banksman will monitor operations, no waste is to be released from the stockpile whilst personnel are inside the zone.
- Wagons will then enter the site via Cotton Lane Entrance and then into the Demolition site exclusion Zone. Banksman will assist the wagon driver and ensure safe entry is gained.
- Ensure the wagon is stationary with engine off and in position before loading the wagon. Wagon/skip to be loaded in a careful methodical manner.
- Ensure banksman can see both the plant driver and the other side of the wagon where debris has the potential to fall off.
- The skip will then be dropped into the designated demolition exclusion zone.
- Once safe to do so the excavator can begin to load the wagon/skip using the grab attachment. Excavators will only be operated trained and competent personnel.
- Any dust generated will be suppressed using high pressure sprayers and hose pipes.
- Once loading is finished the wagon/skip can be taken off site. The wagon will exit site via the carpark and out on to Cotton Lane.
- It is important that stockpiled waste does not become a fire hazard.
- Stockpiles must be maintained and not allowed to 'build up'.
- No operative at any time will be allowed within 5m of the slewing distance of the excavator.
- This process will be repeated throughout the Demolition phase until completion.
- Note: Sequence may change due to Site requirements.
- Wagon to be loaded in a careful methodical manner. Ensure both banksman can see both the plant driver and the other side of the wagon where debris has the potential to fall off.
- The skip/wagon will then be dropped into the designated demolition exclusion zone.

- Once communicated by the banksman 1 that it is safe to do so the excavator can begin to load the skip/wagon using the grab attachment. Excavators will only be operated trained and competent personnel.



- Note: Sequence may change due to Site requirements.**

6. Reference Documents

Legislation and codes of practices

All work will be carried out in accordance with current legislation, with particular regard to the following.

- Health & Safety at Work Act 1974
- Confined Spaces Regulations 1997
- The (COSHH) Control of Substances Hazardous to Health Regulations 2002
- Construction (Design & Management) Regulations 2015
- The Management of Health & Safety at Work Regulations 1999
- Personal Protective Equipment at Work Regulations 1992
- The Construction (Head Protection) Regulations 1989
- The Health & Safety (Safety Signs & Signals) Regulations 1996
- Control of Noise at Works Regulations 2005

- The Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013 (RIDDOR)
- The Provision & Use of Work Equipment Regulations 1998
- The Manual Handling Operations Regulations 1992
- The Work at Height Regulations 2005
- The Control of Vibration at Work Regulations 2005

References

BS 6178: Code of Practice for Demolition
 BS 5975: Code of Practice for Temporary Works Procedures
 HSG150: Health and Safety in Construction 3rd Edition
 BS EN 397: Industrial Safety Helmets
 BS EN 166: Personal Eye Protection
 BS 5228: Noise and Vibration control on construction and open site
 BS EN 420: Protective gloves; General requirements
 EN 345: Steel Toed Safety Boots
 EN 471: High Visibility Vest Class 2, as a minimum

7. Employees signing sheet

Method Statement: Demolition Works

Rev: 1

Briefing given by: Site Manager/ Supervisor.

WE, THE UNDERSIGNED, HAVE READ AND FULLY UNDERSTAND THIS PLAN OF WORK.
 ANY QUERIES, PROBLEMS OR AREAS NOT UNDERSTOOD HAVE BEEN DISCUSSED AND
 CLARIFIED WITH THE SITE SUPERVISOR AND/OR DEMOLITION MANAGER/HEAD OFFICE
 AS APPROPRIATE PRIOR TO SIGNING BELOW.

Name	Signed	Date

Prepared By	Role	Date	Signature
Michael Degnan	H&S Co-ordinator	15/10/2019	
Reviewed By	Role	Date	Signature

8. Appendix/Drawings

SITE PLAN



DEMOLITION PHASE PLAN



