

MWD DEMOLITION

Demolition Method Statements & Risk Assessment



DEMOLITION PLAN OF WORK:

**Bobin 24 Brynn Road
Cwmllynfell
SA9 2FJ**

Project Details:

Site Address: Former Public House building, 24 Bryn Road

Cwmllynfell SA9 2FJ

Preparation Date: 20/11/2023

Work Start Date: 07/02/2024

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PART 1

1. PREAMBLE

1.1 The work involves the demolition and removal of a fire damaged building at Bobin 24 Brynn Road, Cwmllynfell, SA9 2FJ.

1.2 Work includes:

- Site set up
 - Provision of site accommodation (mobile welfare unit)
 - Provision and erection of all necessary security fencing (Heras fencing)
 - Set up of dust control (portable water bowser)
 - Obtaining suitable water supply (water bowser)
 - Set up suitable and sufficient segregation of the demolition zone
 - Controlled demolition techniques to be employed using 360 excavator fitted with demolition attachments
- Total demolition via 360 excavator
- Work at height to be reduced by using excavator where ever possible
- Separating waste to be undertaken by excavator
- Loading of waste into bins / lorries
- All vehicles will have a vehicle marshal to watch vehicles leaving and entering the site
- Rubble / stone waste will be crushed and either left on site for client or taken away

- 1.2 Site Working Hours – Monday-•Friday, 0800 – 1730 Saturday, 0800 – 1300
Occasional weekend working.
- 1.4 Resources: 1 x Site Manager
2-3 x Demolition Operatives/Plant Operators
- 1.5 BS 6187.2011 Code of Practice (CoP) for Full or Partial Demolition:
The relevant sections of the CoP have been considered. We have planned the sequence of work.

2. SITE MANAGEMENT

2.1 The Site Management details are as follows:-•

Martin Walsh - 07816862791

2.2 The Site Manager will be present on a full-time basis and will be responsible for ensuring that work proceeds in accordance with our standard company procedures.

2.3 Should our Site Manager be absent, a competent deputy will be appointed and his name/details will be added to this document.

3.

WORK METHOD & SEQUENCE

3.1 Services

- Electric and gas needs to be terminated before demolition work begins.

****STOP POINT****

If there is any uncertainty as to the status of any incoming services, we will assume it to be live, until such a time where a competent person has conducted a test.

3.2 Dust Control

- To minimise the risk of airborne dust, a means of water suppression via hose and water bowser will be positioned in key locations. This will be applied to both rubble and plant.

3.4 Temporary Works

- No temporary works (as defined by BS 5975:2008) are currently proposed.

3.5 Site Set Up

Site Compound

- A site compound will be set up
- Heras fence panels will be erected and doubled clipped into position.
- The fencing will be suitably anchored/weighted down.
- Separate vehicle and pedestrian access route with lockable gates will be provided,
- Appropriately worded safety signage will be erected in prominent locations:
‘Danger – Demolition in Progress’

Accommodation

- An ‘Oasis’ type self-contained unit will be delivered and set up in the site compound.

3.6 Stages of Work:

There are 7 key stages of work, which are summarised below:

One | Site set up, bring to site welfare unit, water bowser, 360 excavators. Erect site fencing where needed, set up demolition warning signs, set up dust suppression devices.

Two | Commence demolition of the main structure, use 360 excavators for total demolition, no work at height. Due to the building incurring substantial fire damage, the safest method of demolition will be for 14 ton excavator, fitted with grab to demolish building. No work at height and no manual demolition, via labourers is needed.

Three | Demolish main structure to floor level, use rotating grab to demolish the building. Attach main bucket, stock pile all stone, brick and aggregates.

Four | Break up slab, foundations, surrounding surfaces that have been agreed to be removed

Five | Crush or remove waste, if crushed leave in a location client has asked for, if taken away 8 –wheel tipper lorries will transport off site. All loading out dust will be suppressed via water bowser.

Six | Leave site in the agreed way, i.e crushed stone stock piled, or to level to what has been agreed.

Seven | Remove fencing and safety signs once client has stated we can do so.

MANUAL AND MECHANICAL HANDLING

Mechanical Handling

The excavator will carryout all of the lifting.

Manual Handling

- No significant manual handling activities are planned.

COSHH

Substances or materials requiring assessment under the Control of Substances Hazardous to Health Regulations 2002 (COSHH) will be controlled according to the Assessments appended to this document.

Should any unknown hazardous substances be encountered during the work, a sample will be taken for analysis and a COSHH Assessment prepared.

The main substance that will require control measures is concrete dust (silica). This dust will be created during the demolition of the masonry. We will minimise dust emissions so far as is possible. An adequate water supply will be provided on site, which will used to provide a water spray for dust suppression.

All Lorries leaving site will be sheeted (Auto Sheet).

10. NOISE & VIBRATION

10.1 NOISE

- We will take all reasonable measures to reduce noise.
- Noise will be generated as follows:
 - o Excavator – noise produced is usually in the region of 85-90dB(A), according to the work being undertaken.
 - o Demolition of structures – mechanical breaking up of concrete will cause significant noise.
 - o Loading Operations – Use excavators to load masonry & steel into skip bins/tipper lorries.
- Exposure to our employees is most likely to occur in the following situations:
 - o Use of Abrasive Wheel – noise produced in excess of 100dB.
- PPE –• Two types of hearing protection will be used when noise levels in excess of 85db is expected:
 - o Moldex Ear Plug -•Expanding Foam insert -•SNR Value 35
 - o Invinible “J Muf” Blue -- “Ear” Defenders with headband, which can be adjusted to be worn whilst the user is wearing head protection (Safety Helmet) -•SNR Value 24
- Hearing Protection Zone: When noisy work activities are taking place, e.g. use of mechanical breakers, the site will be designated as a “*Hearing Protection Zone*” and controls will be implemented, e.g. minimising the number of workers exposed, reducing work activities where possible.

10.2 HAND/ARM VIBRATION (HAV)

- The use of hand-held vibrating tools will be minimised, so far as is possible.
- Where the use of such equipment is necessary, the equipment will be included in our HAV Assessment, which is appended to this document.
- All personnel will be provided with appropriate information in respect of HAV.
- Daily exposure times will be recorded.

11. PERSONAL PROTECTIVE EQUIPMENT

11.1 The PPE listed below will be worn by all workers:

Head Protection (BS EN 397)

At all times.

Respiratory Protective Equipment (RPE to EN 149 FFP3 OR EN140 WITH P3 FILTERS)

If and where significant quantities of dusts/mists are produced.

Safety footwear (EN ISO 20345:2007) Hi visibility clothing (EN 471)

At all times

Gloves (Reflex T or similar)

At all times

Eye protection (EN 166) –

At all times.

Hearing protection –

To be worn during mechanical demolition, or where there is a foreseeable risk of eye injury.

Other

During all noisy operations
Rule of thumb measurement – if you need to shout to be heard!
As deemed necessary (following risk assessment).

12. HYGIENE AND WELFARE

12.1 Welfare facilities will be provided for the entire demolition period, and will be located within the fenced off area.

12.2 All personnel will be instructed to use welfare facilities in the correct manner and to maintain them in a clean and hygienic condition.

12.3 Facilities will include hot/warm and cold running water, soap and hand-wipes, and facilities for persons to take meals and shelter.

15. DOCUMENTATION

15.1 The following documents will be available in our site office:

- Certificates of inspection, examination and testing of plant and equipment
- Records of inspections for work/lifting equipment etc
- Statutory signs and notices
- Demolition Plan of Work/Method Statement, Risk and other Assessments
- Service Isolation Certificates
- Other applicable documentation

16. ENVIRONMENT

16.1 Dust

- During normal demolition works -•No excessive levels of dust will be produced. Dust will be kept to an absolute minimum, by the application of controlled demolition techniques, e.g. use of hydraulic grab to lift and lower large items.
- We will apply a water spray to suppress dust – water supply to be obtained from a Bowser. The control of dust will be monitored by our Site Supervisor.

16.2 Environmental effect of noise

- To minimise noise, modern equipment will be used, fitted with standard noise reduction measures.
- Mobile plant will be maintained in accordance with manufacturer's requirements to ensure maximum efficiency.
- Noisy operations (e.g. use of disc cutters) will be kept to a minimum and

less noisy operations substituted where practicable (e.g. unbolting of fencing instead of cutting).

16.3 Fumes

- No excessive fumes will be produced.

16.4 Waste Management & Disposal

- Arisings and debris will be loaded to our skip bins/tipper lorries, and will be removed for recycling where possible.
- Waste Consignment Notes (WCNs) will be prepared for each load.
- Copies of the WCNs will be passed to our Client for inclusion in the Safety File.

17. ALTERATIONS TO METHOD STATEMENT

- 17.1 We reserve the right to alter any part of this method statement in the light of further information or a change in circumstances.
- 17.2 Any alterations or modifications to this Method Statement will be communicated to any person who may be affected by those changes.

Date.....20/11/2023.....

The information below will be included in the Site Induction and Pre-Work RAMS briefing, which be delivered to the workforce by:

HAZARD	WHO MAY BE HARMED?	CONTROL MEASURES
Uncontrolled collapse of building	Employees Subcontractors Third parties	All personnel to attend pre-work briefing. Work to be planned and carried out from the top down. Workers to be positioned a safe distance away during mechanical demolition.
Falling materials, causing injury from flying particles,	Employees Subcontractors Third parties	Buffer zones to identified and fenced off as appropriate. No structure/s to be left partially collapsed or in an unsafe condition.
Dust	Employees Subcontractors Third parties	Water dust suppression to be set up and applied to work areas. Controlled demolition techniques to be applied.
Collision with site traffic (outside site)	Third parties	Traffic movements to be controlled.

Collision with site traffic (on site)	Employees Subcontractors	Vehicle Marshalls to be in place during traffic movements on public highway to ensure safety. Reversing to be avoided/minimised. Vehicle and worker access routes to be segregated.
Slips, Trips & Falls	Employees, Subcontractors	Access routes to be kept clear of obvious hazards.
Cuts, grazes & Abrasions, inc Foot penetration Injuries from protrusions / glass / metals	Employees Subcontractors	PPE to be worn as identified in this document.
Loading / Unloading	Employees Subcontractors	Workers to be kept clear of loading areas.
Live Services	Employees Subcontractors	Confirmation of service isolation to be obtained in writing. Carry out checks.
Manual Handling	Employees Subcontractors	MH to be minimised. All workers to receive training or refresher training.

Fire	Employees Subcontractors Third parties	No smoking on site. Hot works to be planned – hot work permit system may be used.
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**** SITE SUPERVISOR -•Additional Hazards + Controls to be added below ****

Please find attached Appendix with further details.

