Demolition of Grange Lane Junior School
Cornwall Road Ashby Scunthorpe Lincolnshire

Description of Works.

To demolish a former junior school property off Cornwall Road Ashby Scunthorpe.

Scope of Works

The existing primary school comprises of one building and thus demolition works will be one phase, following construction of the new facility and decant from the old.

The site perimeter will be securely fenced and the new school will be separated from the demolition area. Protected designated walkways will be provided and appropriate signs erected. A traffic management plan will be developed and displayed.

Scaffold to create working platforms and protective fans to the demolition works will be erected by a specialist scaffolding contractor as deemed necessary (separate RAMS will be produced for these works).

A soft strip by hand to remove internal fixtures and fittings, roof structure and gables, including chimney stacks will be undertaken. Materials will be segregated as works proceed.

A 360° excavator will demolish the remainder of the buildings to ground level with further picking and separation of materials being carried out. Concrete and brick being separated, due to the restricted nature of the site crushing of materials on site will not take place, as with other arising's from the works it will be loaded onto 6/8 wheeler lorries for disposal off site at a licensed waste transfer facility, where further sorting and recycling will take place.

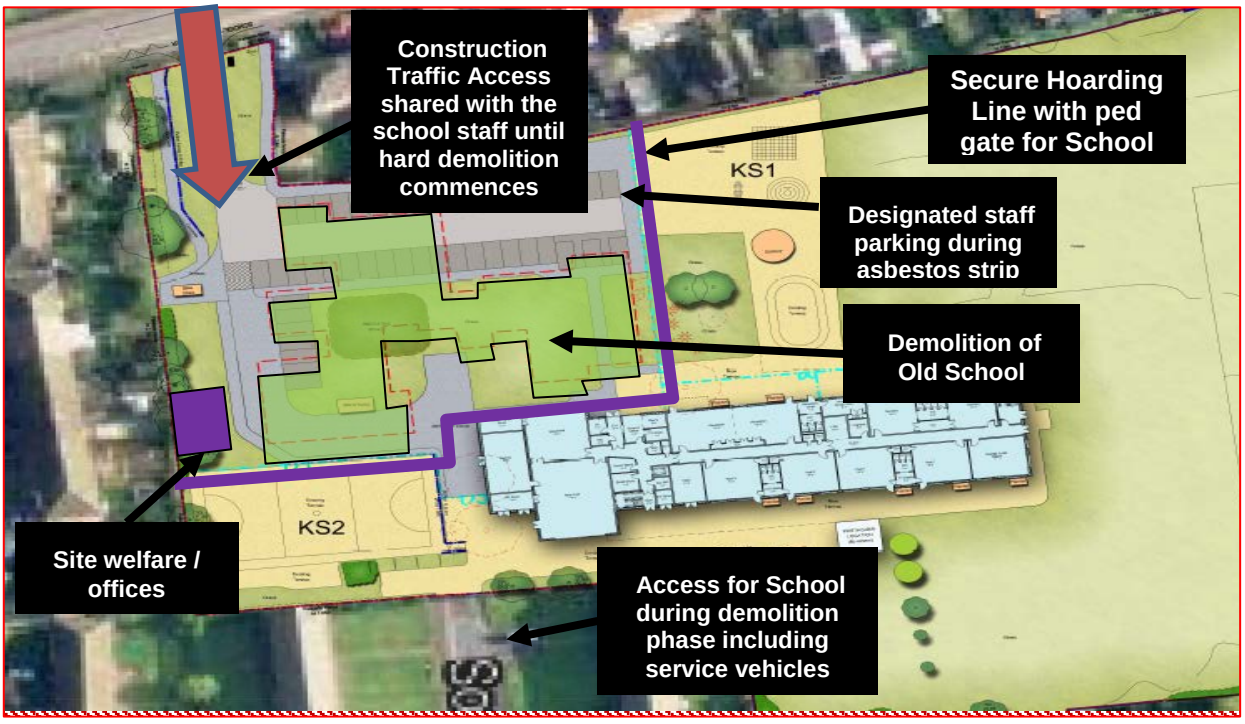
Existing hard play areas will be grubbed up and removed from site however the existing car park will remain.

Site Location and Environment

The site is situated on the outskirts of Scunthorpe in the district of Ashby, the site is well contained with a large play field to one side housing backing onto the school on the North and West boundary's with the new school to the South.

Access/Egress

Access to the site will via the existing school driveway, movement of vehicles on and off the site will be managed by the demolition subcontractor by way of accredited banks men.



Emergency Procedures/A & E Hospital/Accident Reporting

Emergency procedures, accident reporting will be detailed in the Construction Phase health and safety Plan. First aid cover will be provided and the direction to the nearest A&E will be displayed in the site welfare facilities. The latter information being briefed at the site inductions.

Plant and Labour for the Works

A dedicated Site Supervisor will be appointed to manage the works.

Demolition Supervisor: TBC
Demolition Operatives: TBC
Plant Operators: TBC

21 Ton 360° excavator (tracked)
18 Ton 360° excavator (wheeled)

Attachments: Selector grab, selection of buckets.

8 Wheeled roll on/roll off vehicle. 20, 30, 40m³ skips
8/6 Wheeled tipper Lorries.
Fencing for the works.
Scaffolding (scaffold Method Statement/Risk Assessment to be provided 2-weeks prior to start of the works).
Site welfare cabin.

Where required plant and deliveries will be assisted by a banksman as described in the safe system of works.

Documentation

The following documents will be available in our site office:

Company safety policy
Pre-construction health and safety pack
Method statement/risk assessment
Copies of operatives licences (CPCS etc)
Certificates of inspection and thorough examination for plant.
Statutory inspections for scaffolding and lifting appliances
Employer's liability insurance certificate
Service plans and drawings, asbestos register and relevant clearance certificates.

Working at Height

Scaffolding to be erected by approved Scaffold Company (scaffold contractors method statement/risk assessment to be issued 2-week prior to works commencing.)

Personal Protective Equipment

Mandatory PPE, Hard hats, safety boots, gloves and hi-visibility clothing.
Task specific PPE: refer to risk assessment.

COSHH Assessments

Diesel lubricants etc: Fuel deliveries made daily by bowser operated by trained driver. COSHH assessment available from operator.

Site Safety Induction – Employees

Safety inductions will be given by the Site Supervisor to all demolition personnel, referring to all appropriate information. A record of all inductions received will be maintained.

Site Safety Induction – Visitors

Safety inductions will be given by site supervisor regarding emergency procedures, first aid and PPE requirements. Visitors will be escorted by site supervisor or other responsible person.

Training in Works Methods

All persons working on site will be made aware of the contents of this method statement and risk assessment and instructed to work according to its requirements. All operatives will have a relevant CSCS card and will have asbestos awareness training and manual handling training, plant operators will have a relevant CPCS card.

Hygiene and Welfare

On site welfare and hygiene facilities to be provided for the duration of the works.

Manual Handling

All operatives to have undertaken manual handling training.

Site Security/Fencing

Site to be fenced off using Heras type anti climb fencing and double clipped. Access will via Flixborough Road temporary vehicular gates will be erected and controlled. Pedestrian walk ways within the site area will be formed and maintained, appropriate signs will be displayed.

Work Method

Preliminary Works:

The Site Supervisor will ensure that all preliminary works have been carried out before the commencement of the demolition. These include: Service disconnections – written confirmation obtained that all relevant services have been disconnected.
All asbestos has been removed from the work areas and air clearance certs have been issued.
Scaffold has been constructed as specified and has been checked and certificated, scaf-tags in place.

Site Set Up

The site will be fenced off using Herras type anti climb barriers. The works will be overseen by Banksman as interaction with pedestrians will be possible during this phase. The fencing will encompass the whole works area.

Lockable gates will be provided at the access on the works area. All appropriate signage will be affixed to fencing and gates, anchor points may be affixed to structures to maintain stability to fencing during the works.

Welfare facilities will be delivered to site and placed in an agreed position. The unit will be self –contained with heating, hot water, shower and toilet facilities.

Scaffold Erection

Scaffold sub-contractor will deliver materials required for the works to site using the entrance off Cronwall Road.

The Scaffold sub-contractors will receive a site induction from the Site Supervisor, but will be working to their own approved method statement and risk assessment during these works.
On completion, the statutory documentation will be provided and a current Scaf Tag will be affixed in a prominent position.
Daily scaffold inspections will be undertaken by a competent person during the demolition works.

Soft Strip of Internal Fixtures and Fittings

Demolition operatives using hand held tools will remove and dispose of all soft strip items, placing into skips provided for disposal off site. A designated walkway will be used and kept clear at all times. Operatives will co-ordinate the strip and removal to ensure that each activity does not interfere with other works. Fencing off or exclusion zones may be used in areas of soft strip.

Removal of Roof Structures

Working off the scaffold platforms and from inside the upper floor of the building, demolition operatives using hand held tools will remove the roof covering from the roof structure to expose the timber frame work. The materials will be placed directly into skips placed adjacent to the scaffold or brought down internally via the stairway and placed in skips as previous.
When roof covering has been removed the wooden roof structure will be dismantled by hand, leaving any structural or supporting timbers in place.

Demolition of High Level Brick Work, Gables, Chinmeys etc.

Working off the scaffold platforms and from inside the, Demolition Operatives using hand held tools and pneumatic tools will demolish high level brick structures.
The brick work will be removed as the works progress to prevent over load of the scaffold or the internal floors. The material will be disposed of down scaffold chutes directly into skips for removal off site or through a hole in the upper floors, protected by a scaffold guard rail and a secure exclusion area below.

During the demolition of the high level brick work, structural or supporting timbers will be removed whilst maintaining the stability of the structure during the demolition works.

Demolition of Remaining Structure to Ground and Basement Level

The scaffold sub-contractor will dismantle and remove off-site the scaffolding to the property, as described in their method statement/risk assessment.

A 360° excavator, wheeled or tracked, will be delivered to site via the site entrance on Cornwall Road Road. The 360° excavator will position on site to begin the mechanical demolition of the remaining structure of the building.

Banksmen will be placed in prominent positions around the site. A water suppression unit or hose will be set up to control dust and dampen the demolition material during the works.

Working progressively from the southern side of the site the 360° machine using the selector grab attachment will work down the external and internal brickwork removing structural and supporting timbers/lintels during the process. All timber structures will be placed into skips provided and removed off site. This process will continue until the building is demolished to ground level.

Excavation and Removal of Brickwork and Concrete from the Building

The 360° excavator will be fitted with a bucket attachment. The excavator will form a level working platform on the demolition material. Banksmen will be positioned in prominent positions. Water suppression will be provided as previously described.

Using the excavator the brick and concrete rubble will be separated and removed to a stock pile.

Once a suitable amount of concrete and brick rubble has been produced HGV tipper Lorries and or bulkers will arrive on site in accordance with the traffic management plan provided. A Banksman will reverse the vehicles into site, when the vehicle is in position the 360° excavator will load into the body of the vehicle with the material. Water suppression will be used if required during the process. When the vehicle is fully loaded the tipper operator will sheet the load using the automatic sheeting system fitted to the vehicle. The vehicle will be checked to ensure the load is secure before leaving site and disposing of the load. This process will continue until all brickwork and concrete materials from the structure have been removed off site. All materials removed from site will be undertaken by a recognised licenced contractor with waste transfer notes being obtained and recorded.

Removal of Foundations and Basement

The Site Supervisor will assess the foundations and basement area as regards the removal of any structure that may be supporting or retaining the existing roadways, pavements and services in-line with the existing service plans.

On instruction from the Project Manager, the Supervisor will oversee the removal process on what structures need to be removed or retained.

The 360° excavator using the bucket attachment will excavate foundations and basement as indicated or marked for removal.

If some structures are required to be left in-situ or are difficult to excavate, the 360° excavator will be fitted with a hydraulic breaker attachment that will break out the structures to be removed under the guidance of the Supervisor.

On completion of the excavating and breaking out of the foundations and basement the material will be removed off site as previous. Any subsequent drops, falls and voids will be made safe by contouring the excavations to 45 degrees or providing adequate edge protection barriers, until the void is filled.

Removal of Tanks

Any existing fuel storage tanks will be drained by the client prior to being cleaned, removed and cut up for disposal air testing to be carried if required prior to the tank being cut.

Completion/Signing Off

On completion the site will be left in a tidy and safe condition. The site will be signed of and all plant and equipment will be removed off site.

Environmental Strategy and Waste Management

Our aim is to recycle and re-use demolition materials to reduce disposal costs and reduce the need to use new or raw materials, adding to the sustainability of the supply chain and the environment.

We aim to reduce the impact on the environment by aspiring to zero or minimal waste into landfill. The strategy is based on the Demolition ICE Protocol and BREEAM guidelines. We endeavour to recycle the majority of our waste via recognised demolition and waste management contractors.