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D. HUGHES
DEMOLITION & EXCAVATION LTD.

CASE STUDY –

Project	Chorley New Rd Primary School
Project Address: Chorley New Rd, Horwich, Bolton, BL6 6EW	
Client	Willmott Dixon Construction Ltd.
Principal Designer	Willmott Dixon Construction Ltd.
Principal Contractor	D. Hughes Demolition & Excavation Ltd.
Nature of the Project	Demolition and site clearance of former school, including removal of all existing tarmac, paving, kerbs, slabs and foundations as specified, crushing and stockpiling all arising's, any surplus material to be removed off site.
Value	£65,000
Length of Contract	6 weeks
Start date	September 2018

Description of the works



Two structures occupied the site; the first building to be demolished was a steel framed structure covered in sheet cladding.



The steel roof and sheet cladding were removed by use of a demolition excavator fitted with a rotating grapple attachment. A waste skip was positioned as close as practicably possible to the works. The grapple attachment took hold of the roof sheets, peeling them free and placed them directly into the skip to be recycled. Removal of the steel sheet exposed the steel frame.

The steel frame was cut down using the demolition excavator fitted with a shear attachment and placed directly into the skip. As the building reduced down, the excavator continued by pushing the brick walls into the footprint folding the structure into itself.



The second building, traditionally constructed had previously been stripped of all asbestos containing material; however the Asbestos Surveyor advised to cap the floor of the undercroft with MOT Type 1 stone.



The arrows in red show the direction and point where demolition commenced.
The blue arrows demonstrate the approximate stage of the works ('bays') where demolition will cease, to allow the creation of the MOT type 1 platform within the undercroft. The width of the bays will be determined by the location of the load bearing internal walls.

The structure of the building was demolished in an even manner working from the roof downwards by mechanical means.

When the first' bay' had been completely demolished down to floor level, the timber sheets, floor and joists were lifted out by mechanical means and placed into a waste skip to be taken to a wood recycling facility.
Stone infill was then laid down to a depth of 200mm, upon which 6F2 type crushed material was applied to a depth of 600m. The excavator then moved on to the next bay working off the 'platform' created. This sequence continued across the structure.

On completion of the demolition, all suitable arising material was crushed and stockpiled for future use by the Client. All further materials were removed and disposed to licensed waste / recycling facilities.

The site was left level and tidy in readiness for the re-development by the Client