

DEMOLITION & MAKING GOOD METHODOLOGY FOR THE REMOVAL OF OUTBUILDINGS AND ASSOCIATED CONCRETE PLINTHS AT SPECTRUM UNIT F

There are 4 number single storey outbuildings to the west and north elevations to be removed as well as some small concrete bunds and plinths. [See photos below]



Drawing **SBP-LAW-XX-00-DR-A-041301 [rev P02]** highlights in red the full extent of the structures to be demolished that exist outside of the main building. Drawing **SBP-LAW-XX-XX-DR-A-042001 [rev P02]** shows the proposed demolition to the elevations.

DEMO OF MAIN STRUCTURES:

Using MEWPS for high level access, the guttering, drains and flashings will be stripped first by removing any fixings such as screws, bolts and rivets using battery operated hand tools.

Any external electrical furniture (lights, CCTV cameras, etc) will be isolated from the power supply before being unbolted and disconnected from the structure.

The roof sheets will be disconnected and detached one by one before being lifted carefully and lowered to ground ready to be placed into a skip. Hand tools will be employed to safely separate the sheets from one another. There should be no need for the use of burning equipment.

The doors to the buildings to the west will be removed by unscrewing the hinges and manually lifting the door out of the frame.

Once the roof is completely removed the side sheets and any remaining flashings will be removed following the same principal as the roof, by removing each sheet individually. The sheets will be of manageable weight for one person to move, however a two man tandem lift will be operated to avoid any potential over exertion.

The steelwork frame will then be unbolted beam by beam and again each component safely lowered to ground before being moved to a skip. Working in a top down manner, the steelwork will be dismantled, until only the columns remain. The columns will be supported individually using slings and chains attached to an excavator or telehandler to take the weight. They will be unbolted at the base plate and then safely lowered using the appropriate plant, before being removed to a skip.

DEMO OF CONCRETE BUNDS AND PLINTHS / REINSATEMENT OF HARD LANDSCAPE:

An exclusion zone will be set up around the areas of concrete removal.

Large excavators with breakers and other suitable attachments such as peckers and buckets will be used to break out the bunds and slabs. Where necessary cuts to the structures will be made using large floor saws to enable easy separation of the concrete to be removed from the ground. Only trained and competent personnel will operate all plant and machinery. During any cutting or breaking of concrete suitable damping down techniques will be employed to reduce dust. Appropriate RPE will be mandatory for all persons carrying out the works.

The concrete is to be crushed on site in a segregated area.

Once the concrete is broken out any remaining or protruding reinforcement will be cut out by trained operatives using cutting saws.

The ground can then be prepared for reinstatement. If necessary, the ground will be excavated to an appropriate formation level. MOT will then be placed and compacted to the structural engineer's design. If required CBR testing will be completed to determine the ground strength.

Shuttering pans will then be placed by joiners ready for the concrete to be poured.

Concrete including any necessary reinforcement will be placed to the structural engineer's design. The concrete will be allowed to cure for a minimum of 48 hours before the shuttering can be stripped and removed. A further 7 day period will be observed before any vehicles are allowed to travel on the reinstated areas.

MAKING GOOD THE EXTERNAL CLADDING AND FACADES:

Once the concrete has reached structural strength the facades can be made good. MEWPS will now be able to traverse across the concrete.

Drawing **SBP-LAW-XX-XX-DR-A-062001 [rev P02]** shows the proposed GA elevations.

The lower section of the facades [to approximately 2400mm high] is constructed of traditional brick and block cavity wall. A bricklayer will make good any external facing brickwork and pointing. Mortar and bricks will be chosen to match the existing structure. It is envisaged this will be only minor cosmetic works in isolated areas.

The upper section of the facades is made up of Plasticol-coated steel sheets. New sheets will be procured to the designed RAL colour.

The old top sheets will be stripped where required as per the demolition of the outbuildings removing one sheet at a time. Where large penetrations and damages have occurred these top sheets will also be removed.

Using MEWPS for access new top sheets will be installed by trained personnel following the manufacturers guidance.