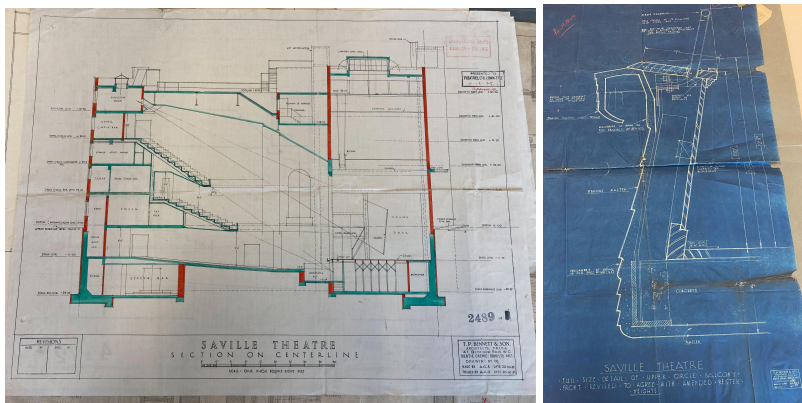


Waste Stream - Recycling

Structural Concrete - Potential for recycling on-site/off-site

Existing drawings show structural concrete slabs, retaining walls and footings. The structural concrete floor slab has been estimated to be approximately 155mm thick based on existing drawings with downturn beams to the floor slabs. There is little potential for reuse of any of the larger concrete elements in their current form e.g floor slabs as methods for doing so are not well established in industry practice.

The concrete frame elements can be segregated and crushed for reuse as hard core, fill or in landscaping or used as recycled aggregate in new concrete without leaving the demolition site. Very little concrete waste therefore tends to go to landfill. Material Index has designated the structural concrete for recycling on-site where it can be crushed on site and used for aggregate in new construction.



Existing Drawings_TP Bennett & Son.

Left: Existing Saville Theatre building section. Right: Existing Slab and balcony detail.



Existing Drawings_TP Bennett & Son.

Concrete foundations and retaining to the basement levels are shown in original detailed plan drawings.

External Metalwork & Concrete Encased Structural Steel - Waste Stream, Recycling

Existing drawings show concrete encased steel beams and columns. While contemporary construction methodology allows for reuse through ease of disassembly, the structural steel in this project is unlikely suitable for reuse, MI has designated the material to be recycled where possible. There are methods to separate steel from encased concrete but for this route to be pursued further testing during deconstruction will need to be undertaken.

There is also some external metalwork such as balustrades and access ladders. Rough estimates for steel and metalwork quantities have been made, however. further information is required to produce accurate quantities of structural steel arising in the Deconstruction Phase.



Existing Drawings_TP Bennett & Son. Exterior_Credit: Material Index

Left: Existing drawings showing structural steel cast in concrete. Right: External metalwork.