

Shaw Brook Culvert Structural Impact Assessment

Project:	Christie Advanced Scanning and Imaging Centre Development		
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Subject:	Structural Impact Assessment of Proposed Works on Shaw Brook Culvert		

1 Structural Impact Assessment of Proposed Works on Shaw Brook Culvert

Manchester City Council (MCC) have advised the following in relation to the Shaw Brook Culvert and the proposed development planning conditions:

"MCC records highlight that the underground Shaw Brook culvert (1280mm x 900mm) is located within close proximity to the site (approximately 50m to the west of the site), while our records are frequently updated to ensure the highest level of accuracy, the records cannot guarantee 100% accuracy for all MCC underground assets. Therefore, we would request that the applicant informs the onsite contractor to remain observant and to take the appropriate safety precautions during excavation works. If any major unknown drainage assets are found beneath the site, then further investigation works should take place to identify the asset and MCC should be contacted immediately."

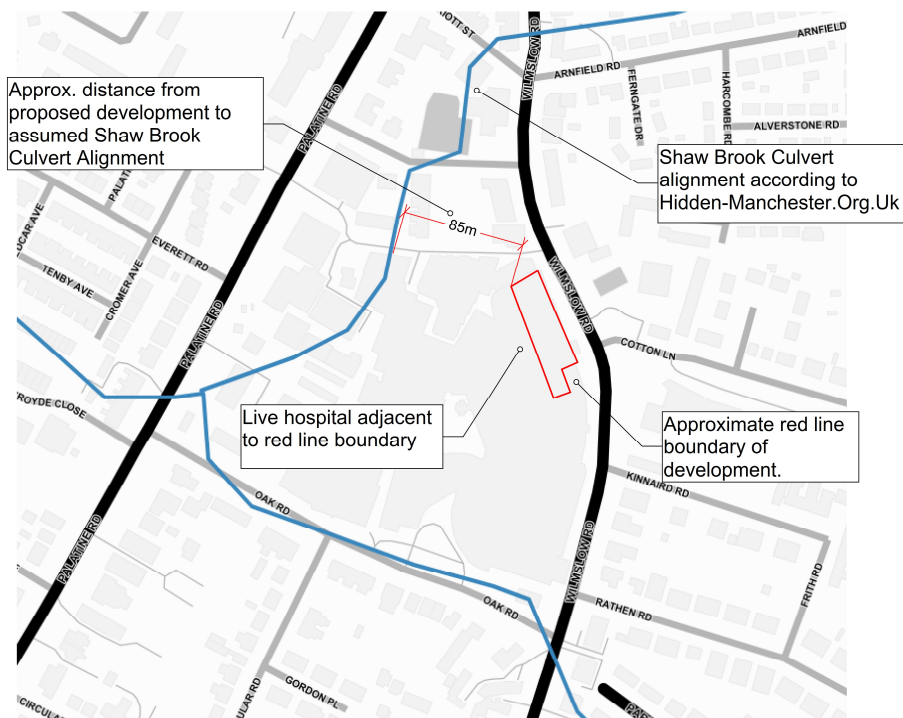
The exact alignment and setting out of the Shaw Brook Culvert is not known. MCC indicate that the culvert is 50m west of the site. Hidden-Manchester.Org.Uk shows an indicative alignment of the culvert. The proposed development red line boundary has been superimposed on this map to get an approximate distance of 85m (See Figure 1.1).

The accuracy of this map is not known however it serves as a useful source of information to help assess any potential structural impact of the development on the Shaw Brook Culvert.

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Figure 1.1: Proximity of Shaw Brook Culvert to the Development

Source: Hideen-Manchester.Org.Uk

The development seeks to demolish an existing predominantly two storey building and replace with a four storey concrete framed building. The new building is to be supported on piled foundations into the underlying sandstone strata.

The proposed piles will be in close proximity to a live hospital building. The piles will most likely be bored to limit vibration during construction. Vibration monitoring will be set up around the site to ensure that the vibration to the surrounding building is kept to within acceptable thresholds for ongoing hospital activities within the buildings between the construction site and the Shaw Brook Culvert.

The details of the monitoring and piling construction are to be developed at the next stage in coordination with the piling works specialist.

Given that the Shaw Brook Culvert is estimated to be in the region of 85m from the red line boundary of the development, the mitigation measures that will be put in place to limit vibration and damage to the live hospital between the culvert and the works area are also deemed to mitigate any risks of damaging the Shaw Brook Culvert. Details of the Shaw Brook Culvert will be included on the proposed substructure drawings and included within hazard risk assessments to ensure the Contractor is aware of the Shaw Brook Culvert and to remain vigilant during construction for unknown drainage assets.