

TECHNICAL MEMORANDUM

Project: Renaissance Project				Project No:		L20081			
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Subject: Renaissance Project – Structural Method Statement for Victoria Bridge LBC – Rev C

If you do not receive all pages, or some are unclear, please advise immediately

1 INTRODUCTION

This Structural Method Statement is regarding the proposed ground anchor installation works to be undertaken for the Renaissance Project in Manchester in proximity to the Grade II Listed Victoria Street Bridge.

The works include the installation of ground anchors following the demolition of the existing basement to enable construction of the new basement and retaining wall for the proposed Residential Tower structure.

Behind the existing basement wall is the Victoria bridge wing wall, the installation of the anchors through this wall require coring through however this will be avoided as anchors will only be installed where the wing wall is not present.

This should be read in conjunction with the provided Architectural Drawings

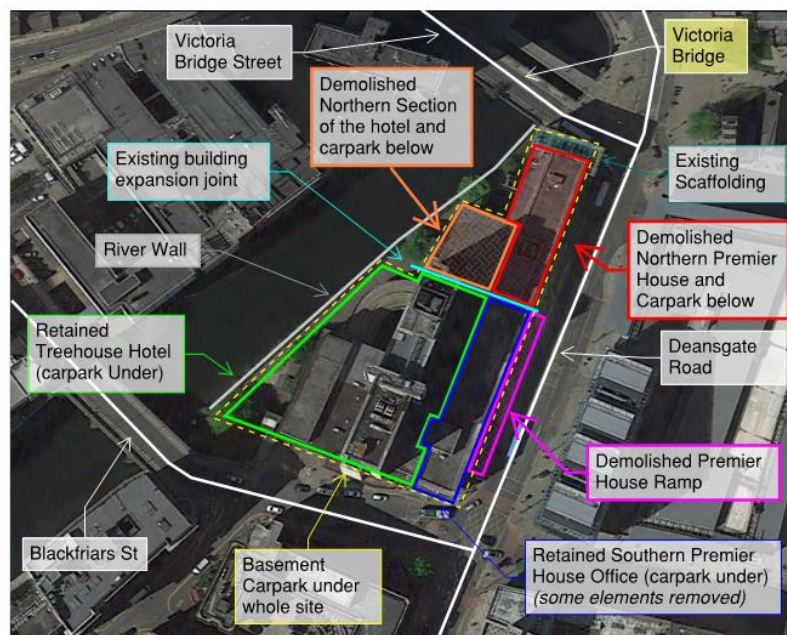


Figure 1: Plan of Existing Site and Description of Demolition (Google Earth 2018)

2 EXISTING STRUCTURE

The existing carpark structure consists of a two-level reinforced concrete retaining wall with attached slabs and columns. The retaining wall extends close to the river wall line, terminating just before in-line with the existing Victoria Bridge Stone Abutment Walls.

In the permanent design this existing basement retaining wall will remain, with new structure constructed in front of it.

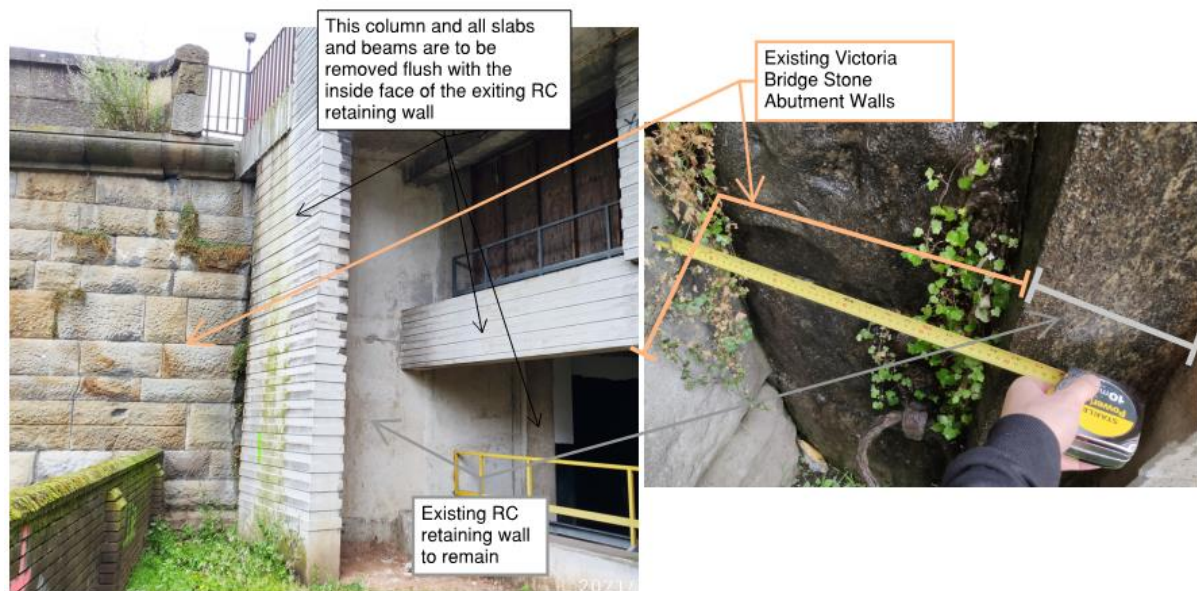


Figure 2: Existing Structure and Existing RC wall to be retained

The reinforced carpark structure, including slabs, beams and column thickenings attached to the retaining wall are to be cut flush to the inside face of the wall and removed.

This will be undertaken using a ground anchors embedded behind the wall to limit movement of the wall retaining Victoria Bridge Street.

3 GROUND ANCHOR INSTALLATION

Diamond core drilling will be carried out through the existing basement wall but not at the location where the Victoria bridge wing wall is present behind. Works will be regularly paused to enable inspection of the bore hole via an endoscope.

Following completion of coring through the basement wall, ground anchors are to be installed through the cored holes. These anchors will be embedded deep into the soil behind the wing wall beneath Victoria bridge street and have no further impact on the wing wall.

Following investigation the wing wall has been identified at location 1 noted in figure 3. No wall is present at location 2. Therefore no ground anchors will be installed at point 1, 3 or 4 to avoid penetrating through the wing wall. Ground anchors will be provided elsewhere along the perimeter as the extent of the wing wall has now been proven.

Refer to Figure 3 on the next page.

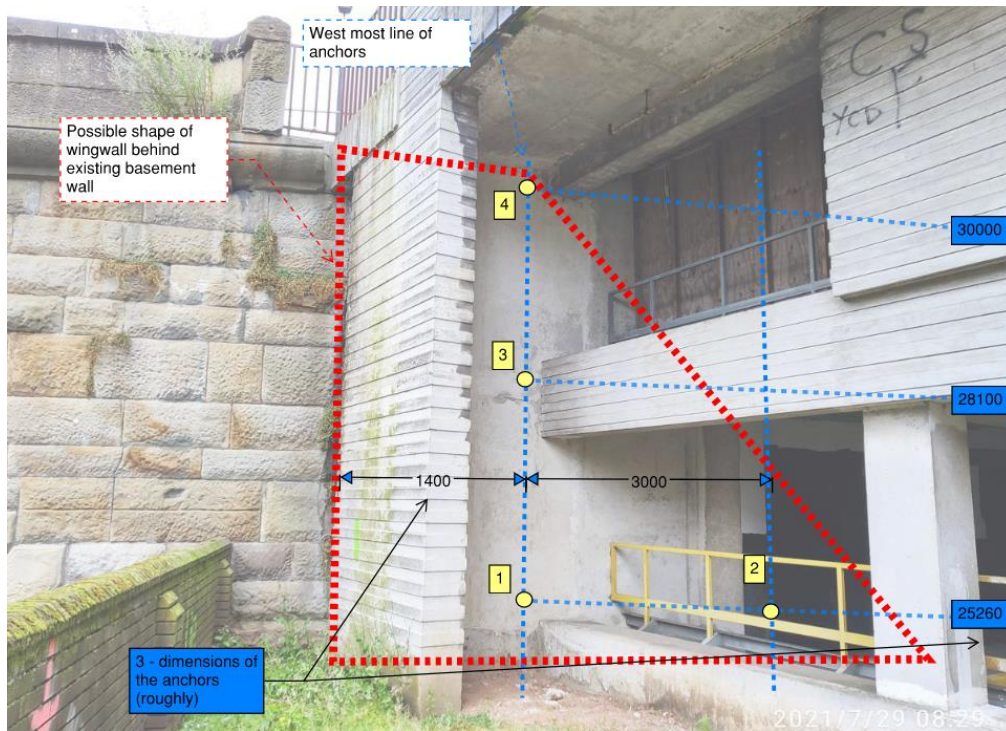


Figure 3: Proposed Anchor Location and Existing Structure

4 NEW STRUCTURE

In proximity to Victoria Bridge a new concrete retaining wall will be constructed in-front of the retained concrete retaining wall. This new retaining wall's riverside most edge will be flush with the edge of the existing concrete wall so as to ensure visibility of the listed bridge. Once constructed this will enable the ground anchors to be disconnected and core holes through the existing walls will be patched and made good then hidden behind the new basement wall limiting any potential visible impact when viewed facing the Victoria Bridge.