

Project: Viaduct, 325 Deansgate, Manchester (to be read in conjunction with Document Number DEA-EOC-XX-XX-RP-S-000)											
Ref	Activity/Element	Hazard	Pre-Risk Rating			Design measures taken to eliminate or reduce the hazard	Residual Risk Rating			Comment on residual risk and advice where appropriate	
			S	P	R		S	P	R		
B - Excavations and Foundations adjacent to viaduct											
B-01	Excavation adjacent to viaduct	Risk of undermining the viaduct foundations	2	2	4	Excavate trial pits to determine the extent of viaduct arch foundations	1	1	1	The Contractor has completed Trial Pits at the arch roots and the profile of foundation corbals/stepouts recorded in these locations (which allows for pile positions to be positioned clear of any corballed footings). Arch footings are founded on the underlying bedrock	
B-02	Piling adjacent to viaduct	Risk of proximity to viaduct footings	2	2	4	Pile locations to be probed (at the closest edge of the pile location) to all pile positions adjacent to the line of the arches	1	1	1	The probing of adjacent foundations mitigates risk of piles hitting existing foundation structure. The Contractor has completed probing at adjacent locations. Risk is mitigated as all probed locations were found to be clear of existing foundations	
B-03	Piling adjacent to viaduct	Excessive vibration on the viaduct during pile construction	3	2	6	Low vibration pile techniques to be adopted during pile construction	2	1	2	Contractor is adopting a rotary cored bored piled foundation solution (see piling contractors Risk Assessment)	
B-04	Piling adjacent to viaduct	Risk of causing instability to viaduct during construction	2	2	4	Piles (750mm diameter) are bored and socketed directly into underlying sandstone deposits	1	1	1	The structural load path dictates that all superstructure loads will pass directly into the piles. No imposed loading on the viaduct.	
B-05	Excavation adjacent to viaduct to construct piled raft foundation	Risk of imposed load on viaduct foundations	2	2	4	No structural load will be transfered to the viaduct foundations due to the use of 'soft' joints. Refer also to EOC Document Number DEA-EOC-XX-XX-RP-S-0001.	1	2	2	None	
Probability / Severity: 1 – Low 2 – Medium 3 – High											
Risk = Probability x Severity											
Risk: 9 – Unacceptable 6 – High 4 – Medium 3 – Low 2 – Negligible											