

			Preliminary Risk						Residual Risk				
Risk I.D	Risk Description	Proximity	Likelihood	Cost	Prog	Rating	Severity	Mitigation Measures	Likelihood	Cost	Prog	Rating	Severity
R001	Target Cost Over Budget		4	1	4	16	Severe	Ensure adequate Contingencies and Risk included in Business Case.	2	2	1	4	Material
R002	Quantities uncertainty		3	1	2	6	Material	Designs completed and quantities verified.	2	1	1	2	Tolerable
R003	Advance Direction signs need to be fixed to gantry signs. The new signs may not fit or be too big and require additional works to the gantries.		4	3	1	12	Severe	Design will replicate existing sign sizes so no additional loading on the structures. Approval sought from DfT on sign variation. Inspection of gantrys prior to finalising works costs to remove risks at installation	4	2	1	8	Severe
R006	Failing to agree Traffic Management arrangements especially with Highway England		3	1	4	12	Severe	Contractor and site team have timely meetings with BCC Highways Team. Contractor needs are discussed jointly with Highways England, BCC and Contractor where required. Road Booking made in timely manner	4	2	2	8	Severe
R007	Difficulty in Co-ordination of Service connections		3	3	3	9	Severe	Liaison with WPD and other service providers	2	1	1	2	Tolerabe
R008	Program overrun		4	1	4	16	Severe	Amend Key dates in programme, continue stakeholder engagement to ensure key milestones are	2	2	3	6	Material
R009	Impact on program of other City Centre schemes		4	4	2	16	Severe	Metro/278 schemes/HS2. TMP form submitted and accounted for in design.	3	1	2	6	Material
R010	Lack of possession of site or part of		3	3	2	9	Severe	NRSWA notices in. Attend City Centre co-ordination meeting with contractors	2	1	1	2	Tolerable
R011	Poor Client related Public Relations		1	1	1	1	Tolerable	Comms strategy meeting required. Close liaison with head of Clean Air Zone	1	1	1	1	Tolerable
R013	Environmental noise issues		4	3	2	12	Severe	May be 11pm restrictions to noisy activity. Plot on residential areas on sites. Night work to be restricted and noise mitigation to be used as required.	1	2	1	2	Tolerable
R014	This project will have insufficient funds to complete all the necessary works, due to the number of change requests and additional items not originally identified.		4	4	3	16	Severe	Value engineer solutions required to bring back scope within budget. Limit non-CAZ related items and time being billed to this project code.	2	3	3	6	Material
R017	Early warning issued by Siemens to LCC & BCC about delivery timescales		4	2	3	12	Severe	Descope any elements not required for Minimum Viable Product. Review go/no go criteria	2	2	2	4	Material
R018	Only one visit per site allowed for in the contract with Siemens. Additional visits may be required.		2	3	2	6	Material	BCC/civils contractor sign-off prior to Siemens attending site to ensure all necessary works completed - i.e. power live and tested.	2	2	2	4	Material
R019	Civils contractor being replaced and all work stopped		4	2	4	16	Severe	Alternative procurement route identified and contractors appointed	2	1	3	6	Material
R020	Insufficient lighting for cameras to correctly capture VRM's due to the number of location changes driven by original design works		2	4	2	8	Severe	Additional secondary lighting or other amendments to existing lighting would need to be made to ensure useable images. Relocate cameras back to optimal position once new civils contractor(s) in place.	2	3	2	6	Material
R021	Insufficient time to install cameras prior to start of endt o-end testing		3	1	2	6	Material	Commence testing with all available cameras and add others as they become available.	2	1	2	4	Materiae
R022	Additional contractor resource needed to install cameras		3	3	3	9	Severe	Review go-live date, review MVP.	3	2	2	6	Material
R023	COVID-19 related Government restrictions on the UK population and workforce will delay implementation and development works.		3	2	3	9	Severe	Regular dialogue with the supply chain to understand what is achievable under the circumstances.	2	1	1	2	Tolerabe
R024	Council unable to progress to Stage 2 (construction) with original contractor.		4	4	4	16	Severe	Re tendering of work, split into smaller work packages, to engage other contractors on existing frameworks.	4	1	1	4	Material
R025	Ongoing integration with the Central Clean Air Zone Service has lead to additional, originally unidentified, works		3	3	2	9	Severe	A separate programme-wide risk pot will be used to mitigate the financial impact. A further funding request has been sent to JAQU to cover anticipated additional scope.	2	2	1	4	Material
R026	Late instruction of contractors could leave to delay to 'go-live'.		4	2	4	16	Severe	The contractors have been engaged early and have mobilised	2	1	1	2	Tolerable
R027	Delay to instalment of camera will leave less time for systems integration and testing.		3	1	3	9	Severe	Work to integrate systems is underway using 'dummy data' to concurrently reduce the integration risk.	2	1	1	2	Tolerable
R028	Installation of signs may require reinforcement of gantry's/existing infrastructure.		2	3	2	6	Material	Structural surveys will be conducted, and smaller signs used where necessary in the interim.	1	1	1	1	Tolerable
R029	Additional road closures required to facilitate sign instalment and other civils works.		2	1	2	4	Material	Utilise or extend existing road closures where possible.	2	1	1	2	Tolerable
R030	Additional development activities to ensure full integration with JAQU systems, noting that the final requirements are yet to be released by JAQU to the Council.		3	2	2	6	Material	Close liaison with JAQU to get foresight of additional requirements. BCC developers to assess current requirements and highlight areas of concern.	2	1	1	2	Tolerable
R031	Increased contractor costs resulting from the COVID-19 restrictions and delays.		4	3	2	12	Severe	Contractors to develop method statements which comply with Government restrictions.	2	1	1	2	Tolerabe
R032	Project management costs incurred from additional delays.		3	3	1	9	Severe	Continue to review project management resource requirements.	2	2	1	2	Tolerable
R033	Risk of market challenge due to contract modification. .		1	2	4	4	Material	VEAT notice issued as a mitigation measure	1	2	2	2	Tolerable
R034	Delays in sign-off processes for Brum Breathes reports may lead to programme slippage. Delay to issue of PO to Contractors required to deliver the Minimum Viable Product.		3	3	3	9	Severe	Work with reviewers to ensure prompt sign off	2	3	2	6	Material
R035	Zengrab upgrade. Ensure that upgrade of existing system to accomodate the CAZ requirement meets internal user requirement.		3	3	4	12	Severe	Ensure concerns of Internal Users are addressed and quatified in Release notes. Sign off by Gateway team.	1	2	2	2	Tolerable