A6 Manchest	ter Airport Relief Road SMBC R	tisk Register Date: 13 Novemb	er Rev: 5	Items with Stag	e 6 Impact Priced in CMSJV T	fender Risk Register																					
Ref Old Si	tatus Description of the Risk	cription and Categorisation Data			Risk Manageme	ent Data Start Date End Date Date last of Impact of Impact Reviewed	Change Status	Probability Cos	Post Mitigation Qualitative A t Time Series / Reputatio		utation Current Assessment	Probability	y Minimum Cost		Maximum Cost		Most Likely N	Maximum Time	Uncertainty	Uncertainty	Total Risk		Risk Feedback D Forecast to be Estimated Risk Transfer	Current Initial	Proposed	Uncertainty	orecast Final Risk Varian
Ref	Live	the Risk of the Risk	Category Owne	er ed Risk Manage r		of Impact of Impact Reviewed	of Residual Risk Allowance	Score Impa Scor	e Score Delay Score	Rating Rating ra	ating					(Weeks)	Time (Weeks)	(Weeks)	Risk Allowance incl Series Time Allowance	Parallel Time Allowance (Weeks)	Allowance at he Start of the Design Phase	Increase Decrease	spent on the Risk Cost Incurred	Allowance Remaining	Current A Uncertainty Allowance	llowance to be taken forward	Risk Spend
272 SMBC	Yes Delays during statutory powers sta leading to increase in preparation of	age Design phase preparation Works Costs increased works and consultation due to inflation caused b	y Programme SMBC	C Bill Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013 30/09/2014 31/10/2014	1	3 5		15 0	SMBC Risk Item for pricing	50%	£100,000.00	£150,000.00	£200,000.00	0.0	0.0	0.0	£75,000.00	0.0	£2,100,000.00			£2,100,000.00	£2,100,000.00	£2,100,000.00	£2,100,000.00 £0.00
280 SMBC	Yes Additional NR track possessions required for construction/additional	Design phase preparation Increase in SMBC paym I cost works and consultation to NR	ant Programme SMBC	C Bill Design Edwards	All changes to be identified by the change	01/10/2013 30/09/2014 31/10/2014	•				SMBC Risk Item for pricing	50%	£250,000.00	£500,000.00	£750,000.00	0.0	0.0	0.0	£250,000.00	0.0	£1,420,000.00			£1,420,000.00	£1,420,000.00	£1,420,000.00	£1,420,000.00 £0.00
	to NR possessions. Bridge 14 and SMBC issues still so separate risk required. Other bridges need furthe review with the TC negotiations. Pc will be clearer by mid August 14.	£			control procedure and challenged as part of the change approval process.		Ŧ	3 5		15 0	0																
	will be clearer by mid August 14. Yes Statutory Undertaker diversions co				All changes to be identified by the change						SMBC Risk Item for pricing			£2,000,000.00	£3,000,000.00							£162.304.1					
267 SMBC	underestimated	works and consultation activities	Undertakers	C Paul Lord Design	control procedure and challenged as part of the change approval process.	01/10/2013 30/08/2014 31/10/2014	Ť	2 5		10 0	0	20%	£1,500,000.00			0.0	0.0	0.0	£433,333.33	0.0	£1,245,637.50	£162,304.1	7 £162,304.17	£1,245,637.50	£1,083,333.33	£1,083,333.33	£1,083,333.33 £162,304.17
42 G115	Yes Delay in Works by Utility Companie Statutory Undertakers cannot delive the accepted programme of works i impacts on the main construction	ver to alone so impact om main evaluated which programme could arise Contractor to support	Statutory SMBC Undertakers	C Paul Lord Construction	Early meeting to understand and agree programme. Commence works as soon as possible to best utilise float to mitigate delay. In house capability to provide assistance or	31/10/2014					SMBC Risk Item for pricing	50%	£1,000,000.00	£2,000,000.00	£3,000,000.00	2.0	4.0	6.0	£1,000,000.00	0.0	£1,400,000.00	£400,000.0	D £400,000.00	£1,400,000.00	£1,000,000.00	£1,000,000.00	£1,000,000.00 £400,000.00
	impacts on the main construction programme.				undertake diversion works directly, where possible. Adopt early warning procedure. Consider accelerated working to mitigate dataset.			3 5	3 Series	15 9	0																
267 SMBC	Yes Protester action	Design phase preparation Programme delay and	Third Parties SMBC	C Bill Design	All changes to be identified by the change	01/10/2013 30/09/2014 31/10/2014					SMBC Risk Item for pricing	50%	£500,000.00	£1,000,000.00	£2,000,000.00	0.0	0.0	0.0	£583,333.33	0.0	£583,333.33			£583,333.33	£583,333.33	£583,333.33	£583,333.33 £0.00
202 New	Yes Increased Thickness of thin Surfaci	works and consultation activities sing Design phase preparation Scheme delayed and		Edwards	control procedure and challenged as part of the change approval process. All changes to be identified by the change	21/10/2014	+	3 5		15 0	0 SMBC Risk Item for pricing	0.00/	£250,000.00	£500,000.00	£750,000.00				£450.000.00			£500.000.00	-£500,000.00		£500,000.00		
	required along the length of the sch	heme. works and consultation budgets are compromise activities	d Development	Edwards	control procedure and challenged as part of the change approval process.	31/10/2014	↔	5 5		25 0	0	90%								0.0							
	Yes Hazel Grove to Buxton rail bridge. T bridge is to be increased in span to future proof for the removal of two r crossing points	o works and consultation rail activities	Unforeseen SMBC Works Instructed by SMBC		Maintain Ealson with Netwrok Rail to ensure only required works are progressed and adopted into the scope of the works.	01/10/2013 30/09/2014 31/10/2014	t	2 5		10 0	SMBC Risk Item for pricing	10%	£300,000.00	£600,000.00	£900,000.00	0.0	0.0	0.0	£60,000.00	0.0	£210,000.00	£210,000.00	-£210,000.00	£210,000.00	£420,000.00	£420,000.00	£420,000.00 -£210,000.0
275 SMBC	Yes Change from overbridge to rail underbridge as a result of the Public Inquiry. Bridge 8 (West Coast main	Design phase preparation Increased cost - construction and inline activities activities	Planning SMBC	C Bill Design Edwards	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013 30/09/2014 31/10/2014	t	0 0		0 0	SMBC Risk Item for pricing	0%	£0.00	£0.00	20.00	0.0	0.0	0.0	£0.00	0.0	£1,200,000.00	£900,000.0	0.000,0002	£1,200,000.00	£300,000.00	£300,000.00	£300,000.00
	Crossing) Yes Construction costs arising from unforeseen live utilities	Design phase preparation Increase cost as works and consultation Compensation Event un	Statutory SMBC fer Undertakers		All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013 30/09/2014 31/10/2014		3 5		15 0	SMBC Risk Item for pricing	50%	£405,000.00	£567,000.00	£810,000.00	0.0	0.0	0.0	£297,000.00	0.0	£297,000.00			£297,000.00	£297,000.00	£297,000.00	£297,000.00 £0.00
307 New	Yes Nesting birds delaying the start of the	the Construction start date being Programme delay and driven by the statutory additional cost incurred	Programme SMBC	C Bill Construction	All changes to be identified by the change control procedure and challenged as part of	31/10/2014		3 5			SMBC Risk Item for pricing	70%	£100,000.00	£300,000.00	£800,000.00				£280,000.00	0.0	£0.00	£280,000.00	-£280,000.00	£0.00	£280,000.00	£280,000.00	£280,000.00 -£280,000.0
279 SMBC	Yes Adverse inquiry result in terms of	Design phase preparation Increase in Design	Planning SMBC	C Bill Design	the change approval process. All changes to be identified by the change	01/10/2013 30/09/2014 31/10/2014	•	4 3		12 0	0 SMBC Risk Item for pricing	20%	£300,000.00	£600,000.00	£1,150,000.00	0.0	0.0	0.0	£136,666.67	0.0	£273,333.33			£273,333.33	£273,333.33	£273,333.33	£273,333.33 £0.00
200 1	Compulsory Purchase Order / Revi Side Road Order. Adjustments in process. Yes Design changes at Bridge 14 and 1	ised works and consultation Development costs and activities delay to programme	Listorore -	Edwards	control procedure and challenged as part of the change approval process.		ţ	2 5		10 0	0 SMBC Risk Item for pricing		£1,500,000.00	20.00	£0.00							6770.000.00	5370 000 C2				
305 New		required	Works Instructed by SMBC	Edwards	control procedure and challenged as part of the change approval process.	31/10/2014	ţ	0 0		0 0	0	0%	z 1,500,000.00	10.00					£0.00	0.0	£0.00	z.∠/U,UUU.00	£270,000.00 -£270,000.00	-1270,000.00	£0.00	£270,000.00	±540,000.00 -E540,000.0
278 SMBC	Yes Changes to the scheme as a result the CPO Public Inquiry	t of Design phase preparation Increase in Design works and consultation Development costs and delay to programme	Planning SMBC	C Bill Design Edwards	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013 30/09/2014 31/10/2014	ţ	1 5		5 0	SMBC Risk Item for pricing	5%	£500,000.00	£1,000,000.00	£2,000,000.00	0.0	0.0	0.0	£58,333.33	0.0	£816,666.67	£583,333.3	3 £583,333.33	£816,666.67	£233,333.33	£233,333.33	£233,333.33 £583,333.33
9 G026	Yes Unforeseen Statutory Undertakers diversions are required due to unchartered services being discove	Need to confirm what the Employer risk not Stats baseline cost is. There evaluated Contractor to support	Statutory SMBC Undertakers	C Construction	Close cooperation with residents, landowners and stakeholders in relation to the phasing and sequencing of the works to be	s 31/10/2014					SMBC Risk Item for pricing	10%	£500,000.00	£1,000,000.00	£2,000,000.00	2.0	4.0	6.0	£116,666.67	0.0	£466,666.67	£233,333.3	3 £233,333.33	£466,666.67	£233,333.33	£233,333.33	£233,333.33 £233,333.33
		Stats estimates due to UU to Employer with mitigation techned from F7m as SMBC			maintained. Facilitate early meetings to discuss, clarify and finalise position with respect to any of their services that require			2 5	3 Series	10 6																	
		have changed design but this adds £2m. (add 7 6 out and 2 back). Need to comfirm if the design can be absred within the planning application.			avering. All changes to be identified by the change control procedure and challenged as part of the change approval process.			2 5	3 Series	10 8																	
90 419	Yes Air Quality Management Area issue	as Employer risk not	Strategic SMBC	C Construction	 Air quality management issues are related to 	31/10/2014					SMBC Risk Item for pricing	5%	£500,000.00	£1,000,000.00	£2,000,000.00	0.0	0.0	0.0	£58,333.33	0.0	£233,333.33			6233 333 33	6333 333 33	6000 000 00	£233,333.33 £0.00
	identified after the Design Develops assessment work.	contractor to support Employer with misgation			the discharge of the planning conditions. All changes to be identified by the change	01102014		1 5		5 0	concernant real priority	5%	130,000.00	21,000,000.00	12,000,000.00	0.5	0.0	0.0	100,333.33	0.0	1233,333.33			E233,333.33	E233,333.33	1233,333.33	E233,333.33 E0.00
					control procedure and challenged as part of the change approval process.		+	1 5		5 0	U																
83 F03	Yes Additional environmental / ecologics mitigation measures required	evaluated Contractor to support	Environmental SMBC Mitigation	C Construction	Implement Carillion Morgan Sindal JV Change Control procedures. Use Contract Change Management to provide maximum efficiency is	a 31/10/2014					SMBC Risk Item for pricing	50%	£400,000.00	£800,000.00	£1,600,000.00	0.0	0.0	0.0	£466,666.67	0.0	£46,666.67	£140,000.00	-£140,000.00	£46,666.67	£186,666.67	£186,666.67	£186,666.67 -£140,000.0
		Employer with misigation			Management to provide maximum efficiency is following contractual procedures and follow value engineering principles to reduce impact on cost and programme.	t i i i i i i i i i i i i i i i i i i i	t	3 5		15 0	0																
299	Yes Wayleaves and easements cause delay to the start of the SU works	a	Statutory SMBC Undertakers	C Construction	n	31/10/2014	↔	3 3	3 Series	9 9	0	50%	£100,000.00	£300,000.00	£600,000.00				£166,666.67	0.0	£166,666.67			£166,666.67	£166,666.67	£166,666.67	£166,666.67 £0.00
264 SMBC	Yes Errors in topographical survey information	Design phase preparation Increase cost as works and consultation Compensation Event un activities the contract.	Civil Design SMBC der Development	C Bill Design Edwards	Topo survey will be carried out by Dec 14. All changes to be identified by the change	01/10/2013 30/09/2014 31/10/2014					SMBC Risk Item for pricing	20%	£100,000.00	£200,000.00	£300,000.00	0.0	0.0	0.0	£40,000.00	0.0	£160,000.00			£160,000.00	£160,000.00	£160,000.00	£160,000.00 £0.00
					control procedure and challenged as part of the change approval process.		ţ	2 3		6 0	0																
155 G097	Yes OII Pipeline estimates inaccurate. Increases from C3 - C4	Design phase preparation Employer risk not works and consultation evaluated activities Contractor to support	Statutory SMBC Undertakers	C Bill Design Edwards	Early meeting to understand scope and agree programme. Bring forward feasibility studies to Design Development. Updated C3's to be	e 01/10/2013 30/09/2014 31/10/2014 lo					SMBC Risk Item for pricing	0%	£0.00	£0.00	£0.00	0.0	0.0	0.0	£0.00	0.0	£153,333.33			£153,333.33	£153,333.33	£153,333.33	£153,333.33 £0.00
		Employer with mitigation			obtained. Content of quotes to be interrogated. Scope requirement to be confirmed.		t	0 0		0 0	0																
265 SMBC	Yes Service Provider / Contractor bank	kruptcy Design phase preparation Programme delay and works and consultation potential construction co	Supply Chain SMBC and Commercial	C Bill Design Edwards	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013 30/09/2014 31/10/2014		0 0			SMBC Risk Item for pricing	0%	£0.00	£0.00	£0.00	0.0	0.0	0.0	£0.00	0.0	£240,000.00	£120,000.0	D £120,000.00	£240,000.00	£120,000.00	£120,000.00	£120,000.00 £120,000.00
293 SMBC	Yes Construction costs arising from dea unforeseen utilities	activities increase. ad Design phase preparation Increase cost as works and consultation Compensation Event un	Issues Statutory SMBC	C Bill Design Edwards	All changes to be identified by the change control procedure and challenged as part of	01/10/2013 30/09/2014 31/10/2014	•				SMBC Risk Item for pricing	50%	£100,000.00	£200,000.00	£300,000.00	0.0	0.0	0.0	£100,000.00	0.0	£100,000.00			£100,000.00	£100,000.00	£100,000.00	£100,000.00 £0.00
305 New	Yes Changes to earthworks balance du	activities the contract.	Quantities SMBC	C Bill Construction	the change approval process.	31/10/2014	•	3 3		9 0	0 SMBC Risk Item for pricing	5%	£2,000,000.00	£2,000,000.00	£2,000,000.00				£100,000.00	0.0	£0.00	£100.000.00	-6100.000.00	£0.00	£100,000.00	£100.000.00	£100.000.00 -£100.000.0
	land procurement not achieved			Edwards	control procedure and challenged as part of the change approval process.		↔	1 5		5 0	0									0.0							
308 New	Yes Design changes at Bridge 13 and 1	13A Revised design being Additional costs incurred required	Unforeseen SMBC Works Instructed by SMBC	C Bill Construction Edwards	All changes to be identified by the change control procedure and challenged as part of the change approval process.	31/10/2014	Ţ	0 0		0 0	SMBC Risk Item for pricing	0%	£0.00	£0.00	20.00				£0.00	0.0	£0.00	£84,000.00	-£84,000.00	£0.00	£84,000.00	£84,000.00	£84,000.00 -£84,000.00
304 New	Yes Delay to the Oil Pipeline works	Failure to start on time and or Programme delay and complete on time additional cost incurred	Statutory SMBC Undertakers	C Bill Construction Edwards	All changes to be identified by the change control procedure and challenged as part of the change approval process.	31/10/2014	↔	2 4	3 Series	8 6	SMBC Risk Item for pricing	20%	£200,000.00	£400,000.00	£600,000.00	2.0	4.0	6.0	680,000.00	0.0	£0.00	£80,000.00	-£80,000.00	£0.00	£80,000.00	£80,000.00	£80,000.00 -£80,000.00
156 G039	Yes Additional requirements associated technical approvals from the Natura England	d with Design phase preparation Delays to programme al works and consultation activities	Environmental SMBC Design Development		As described in Question 8, our team have the experience and relationships liaise with Natural England during DD & KS4, and value engineer the design Accordingly. Natural	01/10/2013 30/09/2014 31/10/2014					SMBC Risk Item for pricing	20%	£180,000.00	£360,000.00	£540,000.00	2.0	4.0	6.0	£72,000.00	0.0	£8,000.00	£64,000.00	-£64,000.00	£8,000.00	£72,000.00	£72,000.00	£72,000.00 -£64,000.00
					engineer the design Accordingly. Natural England review process will be used to drive approvals process.		+	2 1	3 Series	2 6	0																
270 SMBC	Yes Additional work as a result of the Transport Assessment. Inc. addition mitigation measures	Design phase preparation Possible cost of altering works and consultation existing junctions artivities	Civil Design SMBC Development	C Bill Design Edwards	All changes to be identified by the change control procedure and challenged as part of the channe amminul process	01/10/2013 30/09/2014 31/10/2014		1 5		5 0	SMBC Risk Item for pricing	5%	£800,000.00	£1,500,000.00	£2,000,000.00	0.0	0.0	0.0	£71,666.67	0.0	£420,000.00	£348,333.3	3 £348,333.33	£420,000.00	£71,666.67	£71,666.67	£71,666.67 £348,333.3
276 SMBC	mitigation measures. Yes Additional unknown requirements associated with technical approvals	Design phase preparation Increase in Design beform works and consultation Development costs and	Third Parties SMBC	C Bill Design Edwards	the change approval process. All changes to be identified by the change control procedure and challenged as part of	01/10/2013 30/09/2014 31/10/2014		· ·			SMBC Risk Item for pricing	10%	£10,000.00	£250,000.00	£500,000.00	0.0	0.0	0.0	£25,333.33	0.0	£126,666.67	£76,000.00	£76,000.00	£126,666.67	£50,666.67	£50,666.67	£50,666.67 £76,000.00
313 New	Yes Additional unknown requirements associated with technical approval external authorities (e.g. MAG, CAF Yes Landowners not agreeing to location	on Landowner objections Additional costs incurred	Third Parties SMBC	C Bill Design	the change approval process.	31/10/2014	+	2 3		6 0	0 SMBC Risk Item for pricing	0%	£0.00	£0.00	£0.00				£0.00	0.0	£0.00	£46,666.67	-£46,666.67	£0.00	£46,666.67	£46,666.67	£46,666.67 -£46,666.67
	ecological mitigation measures out the CPO	Desim rhose menaration Innease in allowance fo	r Unforeseen SMBC	Edwards	control procedure and challenged as part of the change approval process.	01/10/2013 30/09/2014 31/10/2014	ţ	0 0		0 0	0 SMBC Risk Item for pricing	0.1	20.00	£0.00	£0.00	0.0	0.0	0.0									
200 SMBC	Yes Requirement for additional complementary measures over and above original scope	Design phase preparation Increase in allowance fo d works and consultation comp measures activities	r Unforeseen SMBC Works Instructed by SMBC	C Bill Design Edwards	All changes to be identified by the change control procedure and challenged as part of the change approval process.		ţ	0 0		0 0	0	0%	20.00	zu.uJ	10.00	0.0		3.0	£0.00	0.0	£45,333.33			145,333.33	1.45,333.33	140,333.33	£45,333.33 £0.00
285 SMBC	Yes Additional accommodation works be estimate	seyond Design phase preparation works and consultation activities	Civil Design SMBC Development	C Bill Design Edwards	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013 30/09/2014 31/10/2014	↔	2 3		6 0	SMBC Risk Item for pricing	20%	£50,000.00	£200,000.00	£400,000.00	0.0	0.0	0.0	£43,333.33	0.0	£43,333.33			£43,333.33	£43,333.33	£43,333.33	£43,333.33 £0.00
277 SMBC	Yes Additional requirements associated technical approvals from Network R	d with Design phase preparation Increase in Design Rail works and consultation Development costs and activities delay to programme	Third Parties SMBC	C Bill Design Edwards	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013 30/09/2014 31/10/2014	↔	2 3		6 0	SMBC Risk Item for pricing	20%	£100,000.00	£200,000.00	£300,000.00	0.0	0.0	0.0	£40,000.00	0.0	£140,000.00	£100,000.0	D £100,000.00	£140,000.00	£40,000.00	£40,000.00	£40,000.00 £100,000.00
269 SMBC	Yes Economic case for the scheme doe meet requirements to achieve full	es not Design phase preparation DIT Full Approval not works and consultation achieved requiring rewo	Supply Chain SMBC k and	C Bill Design Edwards	All changes to be identified by the change control procedure and challenged as part of	01/10/2013 30/09/2014 31/10/2014					SMBC Risk Item for pricing	0%	20.00	£0.00	£0.00	0.0	0.0	0.0	£0.00	0.0	£100,000.00	£75,000.00	£75,000.00	£100,000.00	£25,000.00	£25,000.00	£25,000.00 £75,000.00
	approval. Yes Aggregate tax (increase beyond inf	activities and delay to programme and increase costs.	Commercial Issues		the change approval process.		ţ	0 0		0 0	0 SMBC Risk Item for pricing		5000 00 ····	£500,000.00	£750,000.00		0.0		005		005.000				005	005 000 1	005 000 07
63 807	reggregate tax (increase beyond inf	flation) Employer risk not evaluated Contractor to support Employer with mitigation	Supply Chain SMBC and Commercial Issues	Construction	Collaborative monitoring of volatility in tax policy. If required CMS would procure materia in advance of increase and stockpile to support in mitigating this risk.	al 31/10/2014	↔	1 4		4 0	0	5%	£250,000.00	1.000,000.00	±./50,000.00	0.0	u.u	0.0	£25,000.00	0.0	£25,000.00			125,000.00	£25,000.00	£25,000.00	£25,000.00 £0.00
64 806	Yes Landfill tax (increase beyond inflation		Supply Chain SMBC and Commercial	C Construction	Collaborative monitoring of volatility in tax policy. CMS will explore exemptions and maximise material on site as current	31/10/2014					SMBC Risk Item for pricing	5%	£250,000.00	£500,000.00	£750,000.00	0.0	0.0	0.0	£25,000.00	0.0	£25,000.00			£25,000.00	£25,000.00	£25,000.00	£25,000.00 £0.00
99 0000	Yes Condition of eviding designs of	Employer with mitigation	Commercial Issues Civil Design SMBC		methodology to mitigate this risk.	01/10/2013 30/09/2014 31/10/2014	•	1 4		4 0	0 SMRC Right from for anisis-	0.551	500.000.00	£100.000.00	£200.000.00	0.0	0.0	0.0	600 000 TT		600 000			620.000	600 000 77	600 000 55	C22 222 22
22 G086	Yes Condition of existing drainage (incl and road) not serviceable for come into as required by the design. Exis network not in a sufficient/service condition or of sufficient capacity.	ection works and consultation evaluated sting activities Contractor to support	Civil Design SMBC Development	Simon	Carry out early validation surveys and advise the Authority accordingly. Carry out early condition surveys and include appropriate measurement contingency.						SMBC Risk Item for pricing	20%	£50,000.00	£100,000.00	£200,000.00	0.0	u.u	0.0	£23,333.33	0.0	£23,333.33			123,333.33	£23,333.33	£23,333.33	£23,333.33 £0.00
	condition or of sufficient capacity.				Undertake earliest jetting and CCTV surveys of existing network. Agree scope of works and mitigation measures if unacceptable with LA. Obtain survey information for A34		↔	2 2		4 0	0																
					LA. Obtain survey information for A34 outfall, Manchester Airport outfall.																						
294 SMBC	Yes Defined Cost greater than target	Design phase preparation Increased payment by works and consultation SMBC as pain share activities	Supply Chain SMBC and Commercial	Edwards	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013 30/09/2014 31/10/2014	↔	2 3		6 0	SMBC Risk Item for pricing	10%	£50,000.00	£200,000.00	£400,000.00	0.0	0.0	0.0	£21,666.67	0.0	£21,666.67			£21,666.67	£21,666.67	£21,666.67	£21,666.67 £0.00
297	Yes SU diversion works affected by resources pulled off due to the emergency works		Issues Statutory SMBC Undertakers		1	31/10/2014	↔	2 2		4 0	0	20%	£50,000.00	£100,000.00	£150,000.00				£20,000.00	0.0	£20,000.00			£20,000.00	£20,000.00	£20,000.00	£20,000.00 £0.00
151 D13	emergency works Ves LA resources unavailable for consultation and to deal with appro-	Employer risk not evaluated Contractor to support	Programme SMBC Achievability	C Construction	 Engage with LA and identify all elements requiring LA approval and hold workshops to fast track approvals. 	31/10/2014					SMBC Risk Item for pricing	5%	£50,000.00	£300,000.00	£800,000.00	0.0	0.0	0.0	£19,166.67	0.0	£19,166.67			£19,166.67	£19,166.67	£19,166.67	£19,166.67 £0.00
		Contractor to support Employer with mitigation			tast track approvals. Possible mitigation employ/fund authority approvals resource as a partner, so local authority resource/budget issues do not become an issue. (Being considered for		↔	1 3		3 0	0																
					Northern Hub) Costs less likely to change.																						

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Ref Old Stat Ref Liv	us Description of the Risk	Cause giving rise the Risk	e to Effect and Impact of the Risk	Risk Ris Category Own	k Appoint Pha ed Risk Manage r	se Risk Mitigation Plan	Start Date End Date Date I of Impact of Impact Review	ast Change St wed of Residu Risk Allows	atus Probability Ial Score ance	y Cost T Impact Im Score S	Fime Series / Reputa napct Parallel Impa score Delay Scor	tion Cost Tim ct Impact Impa e Rating Ratin	e Reputat ict Impac ng rating	on Current Assessm t	ent Probabil	ty Minimum Cos	Most Likely Co	st Maximum Cost	: Minimum Time (Weeks)	e Most Likely Time (Weeks)	Maximum Time (Weeks)	Uncertainty Risk Allowance incl Series Time Allowance	Uncertainty Parallel Time Allowance (Weeks)	Total Risk Allowance at the Start of the Design Phase	Required Increase	Allowable Decrease	Forecast to be spent on the Risk	Estimated Cost Incurred	Risk Transfer	Current Initial Allowance Remaining	Proposed Current Uncertainty Allowance	Uncertainty Allowance to be taken forward	Forecast Final Risk Risk Spend	Variance
72 G094 Yes	Design Development surveys e.g. Gl, etc result in compensation payments required for e.g. loss of crops / proper dramone	Design phase preparatio works and consultation	on Additional cost and possible delay	Civil Design SMB Development	C Bill Desig	gn Engage with landowners and agree appropriate access to minimise potential for adverse impact.	01/10/2013 30/09/2014 31/10/2	014	0	0			0	SMBC Risk Item for pricing	0%	£0.00	£0.00	£0.00	0.0	0.0	0.0	£0.00	0.0	£60,666.67		£43,333.33			£43,333.33	£60,666.67	£17,333.33	£17,333.33	£17,333.33 £43	3,333.33
300 Yes	required for e.g. loss of crops / proper damage. Design interfaces with 3rd parties des e.g. Network rail parapet extent affects utility design	tim		Statutory SMB Undertakers	C Constru	adverse impact.	31/10/2	• 014 ↔				3 0	0		5%	£100,000.00	£300,000.00	£600,000.00				£16,666.67	0.0	£66,666.67		£50,000.00			£50,000.00	£66,666.67	£16,666.67	£16,666.67	£16,666.67 £50	0,000.00
82 F05 Yes	Unterseen protected and invasive species encountered after publication ES	Design phase preparation of works and consultation activities	on Employer risk not evaluated Contractor to support	Environmental SMB Mitigation	C Bill Desig Edwards	identity any protected species as early as	to 01/10/2013 30/09/2014 31/10/2	014						SMBC Risk Item for pricing	0%	£0.00	£0.00	£0.00	0.0	0.0	0.0	£0.00	0.0	£12,500.00						£12,500.00	£12,500.00	£12,500.00	£12,500.00 £	£0.00
			Employer with mitigation.			possible, training the required insignion and interime any possible discupier. I oblig implement Carlifon Morgan Sinda V/ Chan Control possible as the Control Toronautor Control possible and the Control Management of the Control Control Management of the Control Control Control Value anglescenting principles to induce impact on cost and programme.	pp in ct	Ţ	0	o		0 0	o																					
44 A11 Yes	Final Planning Permission-Planning Conditions. Additional works arising for the discharge of the planning condition	Planning authority rom requirements for approva	Employer risk not evaluated Contractor to support Employer with mitigation.	Planning SMB	C Bill Desiy Edwards	gn Liaise with the Local Highways authorities to ensure that any planning conditions can be included in the Construction Programme with minimum delay and cost.	o 01/10/2013 30/09/2014 31/10/2 h	⁰¹⁴ ↓	0	o	0 0	0 0	0	SMBC Risk Item for pricing	0%	£0.00	£0.00	£0.00	0.0	0.0	0.0	£0.00	0.0	£157,500.00		£146,250.00			£146,250.00	£157,500.00	£11,250.00	£11,250.00	£11,250.00 £146	8,250.00
	High Court Challenge leading to programme delays.	Design phase preparatio works and consultation activities	Contractor to support Employer with mitigation.	Planning SMB	C Bill Desk Edwards	gn Seek to minimise land take requirements to mitigate field of objectors. Ensure approval process is followed correctly and all documentation is simply structured and easil followed with all benefits existenced and full amelionative measures are included to neutralise any potential negative impact	01/10/2013 30/09/2014 31/10/2	t	5	5	5 Parallel 4	25 25	20	SMBC Risk Item for pricing	80%	£1,500,000.00	£2,000,000.00	£3,000,000.00	6.0	12.0	24.0	£1,733,333.33	11.2	£8,750.00						£8,750.00	£8,750.00	£8,750.00	£8,750.00 £	£0.00
164 F11 Yes	Environment Agency Approvals:	Design phase preparatio works and consultation activities	on Delays to programma awaiting approval or re- work	Statutory SMB Consultees	C Jamie Desij Bardot	gn Early engagement and regular dalogue in agreeing proposals in principle before submitting formally. Ensure approval process is followed is correctly followed and all benefits are evidenced with all ameliorative measures to neutralise any potential negativ impact	01/10/2013 30/09/2014 31/10/2 s we	↔	2	1		2 0	o	SMBC Risk Item for pricing	20%	£20,000.00	£40,000.00	£60,000.00	0.0	0.0	0.0	£8,000.00	0.0	£8,000.00						£8,000.00	£8,000.00	£8,000.00	£8,000.00 £	£0.00
281 SMBC Yes	Local flooding problems exacerbated b the scheme or post construction disturbance of existing land drainage systems	by Design phase preparatio works and consultation activities	on Rework required, addition compensation to land owners, disruption to loca transport network.	al Civil Design Development	C Bill Desi	 All changes to be identified by the change control procedure and challenged as part of the change approval process. 	01/10/2013 30/09/2014 31/10/2	014 ↔	1	3		3 0	0	SMBC Risk Item for pricing	5%	£80,000.00	£120,000.00	£160,000.00	0.0	0.0	0.0	£6,000.00	0.0	£60,000.00		£54,000.00			£54,000.00	£60,000.00	£6,000.00	£6,000.00	£6,000.00 £54 .	4,000.00
124 G047 Yes	Additional works resulting from liaison with the Highways Agency. Signage is the only area that remains an issue.		Employer risk not evaluated Contractor to support Employer with mitigation.	Civil Design SMB Development	C Constru	ction Mitigated by our KS4 team with their experience and relationships with HA.	31/10/2	•	1	2		2 0	0	SMBC Risk Item for pricing	5%	£50,000.00	£100,000.00	£150,000.00	0.0	0.0	0.0	£5,000.00	0.0	£5,000.00						£5,000.00	£5,000.00	£5,000.00	£5,000.00 £	£0.00
	Design of clay lane access. Liability h to be Cheshire East.		I. Additional costs incurred	Civil Design SMB Development	C Bill Constru Edwards	ction All changes to be identified by the change control procedure and challenged as part of the change approval process.	. 31/10/2	014	2	2		4 0	0	SMBC Risk Item for pricing	20%	£35,000.00	£75,000.00	£130,000.00				£16,000.00	0.0	£0.00	£4,000.00				-£4,000.00	£0.00	£4,000.00	£4,000.00	£4,000.00 -E4,	.000.00
129 G037 Yes	Failure to identify / ensure that all loca access requirements are resolved / m inclusting rights of way diversions and private means of access	al net	Employer risk not evaluated Contractor to support Employer with mitigation.	Construction SMB	C Constru	circle Through our approach to Statisticader management as disacholde I collation 4, details of requirements of statisticaders with details of enguirements of statistications with details of the statisticader of the details of the statisticader of the details of the statisticader of the details of the statisticader of the ability to do this on previous ECI project (A1D2B) and expertise available through KS	5 31/10/2 of to to to bed 5 5 4.	↔	1	2		2 0	0	SMBC Risk Item for pricing	5%	£25,000.00	250,000.00	\$75,000.00	0.0	0.0	0.0	£2,500.00	0.0	£2,500.00						£2,500.00	£2,500.00	£2,500.00	£2,500.00 £	£0.00
131 G005 Yes	Foot and mouth, bird flu and other outbreaks		Employer risk not evaluated Contractor to support Employer with mitigation.	Strategic SMB	C Constru	ction We have previous separations of supporting the government (DEPRs) during the last conserts manager has expedience of the required procedures. We would support the wider project team and stakeholders in mitigating the impact, by using approved procedures to quarantime different areas, an advise on emergency strategy.	ital	↔	0	0		0 0	0	SMBC Risk Item for pricing	0%	£0.00	£0.00	£0.00	0.0	0.0	0.0	£0.00	0.0	£25,000.00		£25,000.00			£25,000.00	£25,000.00	£0.00	£0.00	£0.00 £25	,000.00
189 AD6 Yes	Changes in UK legislation or regulation e.g. waste regulations	in	Employer risk not evaluated Contractor to support Employer with mitigation.	Strategic SMB	C Constru	ction FIO - NOT TO BE ANALYSED DURING TENDER PROCESS	31/10/2	•	0	0		0 0	0	SMBC Risk Item for pricing	0%	£100,000.00	£200,000.00	£400,000.00	0.0	0.0	0.0	£0.00	0.0	£11,666.67		£11,666.67			£11,666.67	£11,666.67	£0.00	£0.00	£0.00 £11,	1,666.67
302 Yes	Value of design development CE even in Stage 6.	nts Revised design being required	Additional costs incurred	Supply Chain SMB and Commercial Issues	C Bill Constru Edwards	ction All changes to be identified by the change control procedure and challenged as part of the change approval process.	31/10/2	014 ↔	0	0		o 0	0	SMBC Risk Item for pricing	0%	£0.00	£0.00	£0.00				£0.00	0.0	£2,000,000.00			£10,000,000.00			-£8,000,000.00	-£8,000,000.00	£0.00	£10,000,000.00 -E8,00	00,000.00
312 Yes	The ex alreaft landing light that will be located in the new central reserve of t proposed works has to be lowered av week for maintenance checks. This will require traffic management, the provis of which Manchester Airport may object to.	the lety dl							5	3		15 0	0	SMBC Risk Item for pricing	90%		£150,000.00	£200,000.00	400,000.0			£105,000.00	0.0											
313 Ye	The proposed works clash with the location of an ENWL Sub-Station. The boundary fencing & arcing distances is the issue.	e is							4			0 0	0	SMBC Risk Item for pricing	70%	£75,000.00	£150,000.00	£500,000.00				£169,166.67	0.0											
314 Yes	Works into does not require LED but ultimately that's probably where the project is heading. Likely additional co of £1000/column. With 500+ columns likely additional cost of £500,000 is probable.	oat							5			0 0	0	SMBC Risk Item for pricing	100%	£400,000.00	£500,000.00	£600,000.00				£500,000.00	0.0											
Yes												0 0	0	SMBC Risk Item for pricing	0%							£0.00	0.0											
Yes												0 0 0 0	0	SMBC Risk Item for pricing	0%							£0.00 £0.00	0.0											
Yes				+				_		+		0 0 0 0	0	SMBC Risk Item for pricing	0%							£0.00 £0.00	0.0	<u> </u>	<u> </u>							<u> </u>		
Yes										+		0 0 0 0	0	SMBC Risk Item for pricing	0%							£0.00 £0.00	0.0									<u> </u>		
Yes										+		0 0		SMBC Risk Item for pricing SMBC Risk Item for pricing	0%							00.03 00.03	0.0											
Yes									_			0 0	0	SMBC Risk Item for pricing	0%							00.03 00.03	0.0											
Ye												0 0	0	SMBC Risk Item for pricing	0%							£0.00	0.0											
Yes				+					_	+			0	SMBC Disk from for pricing	0%							£0.00 £0.00	0.0											
								·								£14,830,000.00	£23,012,000.00	£37,425,000.00	400,015.0	30.0	51.0	£7,700,166.67	11.2000	£30,000,000.00	£1,778,666.67	£18,188,333.33	£10,856,000.00 (G)	£660,000.00	£16,409,666.67			£7,700,166.67 (A) £25,000.00	£21,854,500.00 £8,14	45,500.00

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(G) (A) Weekly Prelim Total £25,000.00

Parallel Time Factor = ______ Parallel Time Risk Allowance _______(B) Total residual Uncertainty Allowance = ((cost + series time) + Parallel Time Allowance) ______7783.500.00 (=(A+

500.00 (=(A+B)=C)

Risk Occurrence Allowance to go (from Risk Occurrence Report) £0.00 (D)

Total SMBC Project Residual Risk Allowance to Go E7,793,500.00 (=C+D)=(E)

Forecast Final SMBC Project Risk Expenditure SMBC Strategic Risk <u>F19,206,500.00</u> (F) Total SMBC Residual Risk Allowance <u>F27,000,000,00</u> (=E+F)