

**Bilfinger Berger – Siemens – CAF Consortium : Edinburgh Tram Network
Meeting Notes**

Subject	General Issues	Location	Project Office
Date	11/1/10	Time	
Attendees	Representing	Attendees	Representing
Frank McFadden Colin Neil	Tie Tie	Martin Foerder Colin Brady	BSC BSC
Distribution	Attendees Bob Bell Alfred Brandenburger Kevin Russell	Miguel Berrozpe Klaus Dieker J Donaldson	

	Weekly review of open issues, Tie-BSC	Action by	Date due	Open/ Closed
032	<p>Vibration Mitigation Tie advised that validity of change not excluded in principle.</p> <p>Siemens will provide cost estimates for plain line and S&C (as discussed McFadden/Berrozpe). (post meeting note – BSC will produce design and construction estimates for civil scope when trackform design is available)</p>	<p>Note</p> <p>MBe</p> <p>CBr</p>	<p>asap</p> <p>asap</p>	<p>Open</p> <p>Open</p>
071	<p>Earthworks Estimate Further discussions G Conway/ M. Paterson, in progress</p> <p>Drainage design, section 5B. BSC restated their design basis and interpretation of Scottish Water discharge requirements that have led to attenuation capacity being provided, in letter no 4250, tabled in meeting</p> <p>Tie advised that SW have now confirmed that multiple discharges, each up to the previously advised limit, into the same drain run, are acceptable. Letter to be forwarded to BSC.</p> <p>BSC reiterate that this is a change of design criteria and require an instruction to revise the design. A design change estimate will be produced.</p> <p>Tie advise that depth of drainage (>5m) at Bankhead stop area is also a major issue. BSC to review and respond.</p>	<p>Note</p> <p>Note</p> <p>FMcF</p> <p>FMcF CBr</p> <p>CBr</p>	<p>ongoing</p> <p>asap</p> <p>ongoing ongoing</p> <p>ongoing</p>	<p>Open</p> <p>Open</p> <p>Open</p> <p>Open Open</p> <p>Open</p>

	Weekly review of open issues, Tie-BSC	Action by	Date due	Open/ Closed
101	Gogar Landfill design Design validated in w/c 14/12/09. BSC finalising costings for ballasted track and lateral restraint beams, for a workshop with Tie in 4 th week of December.	CBr	ongoing	Open
103	DKE DKE report issued. Siemens/CAF examining detailed DKE, including analysis of speed, at clashes, to determine if derogation is feasible.	MBe	asap	Open
105	Network Rail Corridor Retaining Walls (post meeting note) (i) BSC undertaking GI on embankment at Baird Drive in w/c 11/1/10, weather permitting (ii) BSC have been advised by Scotrail that the siding cannot be closed, but that a T4 work regime is possible. Further discussion Section Manager/Tie Project Manager required	JDo JDo	ongoing ongoing	Open Open
119	ECS Services (i) SDS "wrap up" deal for outstanding ECS disputed payments now clarified	SDS		Closed
129	MUDFA Programme information (outstanding since 14/9/09) – latest available information will be sent to BSC this week.	FMcF	ongoing	Open
135	MX Strings Accuracy (note correction to previous note) BSC will produce additional cross sections at and pinch points etc, if required to avoid repeat of Princes Street kerblines issues.	JDo	ongoing	Open
141	Systems Integration Plan Further to advice in Period Progress Meeting that SIP was still under preparation, BSC advise date of issue will be in January 2010.	MBe	asap	Open
142	Wanderers Club BSC have resolved design approval status/internal dimensions			

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	Weekly review of open issues, Tie-BSC	Action by	Date due	Open/ Closed
	<p>inconsistencies. Issue of designer claim for additional instruction to be resolved</p> <p>Decision to commence external works only, if economic, has been resolved by site team.</p>	<p>CBr</p> <p>Note</p>	ongoing	Open
143	<p>Shallow Track Slab</p> <p>Tie visited LUAS extensions in Dublin to examine trackform on 14/12/09.</p> <p>Tie intend to instruct BSC to develop shallow depth trackform design alternative, similar to Dublin pattern.</p>	<p>Note</p> <p>Note</p>		
144	<p>South Gyle Access Bridge</p> <p>TM identified by SDS is not feasible as proposed. Tie intend to procure trial hole works (by others) in next 2-3 weeks.</p>	<p>FMcF/ RBe</p>	ongoing	Open
150	<p>Tower Place Bridge</p> <p>BSC have received verbal advice that that amendment of the IFC design to show steps will be approvable by CEC and FPA.</p> <ul style="list-style-type: none"> • Construction licence issued by FPA, • Written confirmation to be issued by Tie 	<p>RBe</p>	Ongoing	<p>Closed</p> <p>Open</p>
151	<p>Forth Ports Design</p> <p>BSC to produce status on design and approval of all disputed designs in FPA area, confirming compliance or otherwise with Contract and Third party approval obligations. Will be issued in January 2010.</p>	<p>CBr</p>	ongoing	Open
152	<p>Gogar Interchange</p> <p>BSC to responded to Tie request for BSC participation in detailed construction methodology/planning of Gogar Interchange as follows :-</p> <p>(i) Design is required before detailed construction planning is possible</p> <p>(ii) BSC willing to undertake construction planning/methodology/programme integration on basis of reimbursement of demonstrable cost. Tie to issue suitable Change Order, capped at £50,000</p>	<p>FMcF</p>	Ongoing	Open

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	Siemens will seek confirmation that S&C procurement is to continue on present basis pending any instructions to the contrary from Tie.	MBe	ongoing	Open
156	OSSA Programme. MUDFA and TM details to be incorporated and programme to be developed further by BSC before issue of soft copy to Tie	MFo	ongoing	Open
157	Shallow Depth Trackform at Obstructions BSC confirmed that SDS design is being developed and will fully address condition of structures (eg Leith Walk railway bridge). Known structures being considered, need to add shallow 500mm gas main at Jane Street. Design cost estimates required Provisions for advance survey/structural inspection to be made to avoid Crawley Tunnel type delay Confirm design of trackform in Haymarket area takes account of cellars etc.	Note CBr CBr CBr CBr	Ongoing Ongoing Ongoing Ongoing	Open Open Open Open
158	Trackform Changes Tie tabled a schedule of possible trackform changes for consideration (below). BSC to review and respond	MFo/MBe	Ongoing	Open
159	Scottish Gas 1500 mm Main at Lindsay Road Scottish Gas require visibility of and dialogue about construction and temporary works methodology adjacent to 150mm cast iron gas main at Lindsay Road. BSC to contact Scottish Gas asap.	JDo	Ongoing	Open
160	Flash Reports Normal submission of Flash Reports to recommence immediately	JDo	asap	Open
161	Princes Street Open issues BSc to clarify position on :- MX strings/Survey issue with south pavement OLE foundation bolt length remedials additional drainage requirements	JDo	asap	Open

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	Weekly review of open issues, Tie-BSC	Action by	Date due	Open/ Closed
	either in monthly report or correspondence.			
162	OLE Foundations in Depot BSC to confirm status of OLE foundation design and construction in Depot.	JDo	asap	Open
163	Russell Road Retaining Wall – Land Requirements BSC confirmed that plots 97 and 102 are required up to the LOD line, but plots 96 and 101 are not required. Tie confirmed that proposed partial demolition of building on plot 97, from gable to next portal frame, is preferred. BSC to produce estimate on this basis, for instruction.	Note JDo	Ongoing	Open
164	Risk Management Tie requires more engagement with BSC on risk management. BSC expressed concern that proposals in Tie letter 2983/MH will simply result in additional work for no benefit. BSC to review internally and respond.	MFo/MBe	Ongoing	Open

ETN Proposed Trackform Changes as of 08/01/10

Proposed Trackform Change: Direct Fix to Ballasted

From	To	Length (m)	Location	Plan App Req	Third/Party App Req	Comments
200253	200727	477m	Haymarket Yds to Russell Rd Bridge	No	No	
51000	51490	490m	Russell Rd Bridge to Murrayfield Halt	No	No	
530966	531645	678m	A8 to depot	No	No	60m in Rheda City open at tram Stop with the remainder in ballast rather than direct fix

Proposed Trackform Change: Rheda City Green to Ballasted

From	To	Length (m)	Location	Plan App Req	Third/Party App Req	Comments
524193	524486	293m	Toe of North Ramp Edinburgh Park Bridge to End of Section 5B	No	No	
534554	530406	406m	Start of 5C to Ped crossing 5th side lochside Ave	No	No	
530445	530591	145m	Ped crossing lochside Ave 5th side to south side Ped Crossing south Gyle Broadway	No	No	
530678	530735	145m	North Ped Crossing south Gyle Broadway to Ped crossing at Gyle Center Stop	No	No	
530801	530966	165m	Gyle Tram Stop to South side of A8	No	No	
531652	531829	177m	Gyle Tram Stop to South side of A8	Yes	No	Planning approved due to future proofing but other section on 7 have been future proofed but are in on ballast.