



For The Attention of Colin Brady  
Project Director  
Bilfinger Berger Siemens CAF Consortium  
9 Lochside Avenue  
Edinburgh EH12 9DJ

Our Ref: INF CORR 391

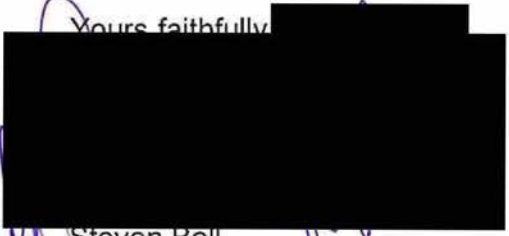
Date: 17<sup>th</sup> November 2008

Dear Sirs,

**Edinburgh Tram Network  
Infraco Progress Meeting**

Please find attached herewith the Minutes of Progress Meeting No 6 Period 8, along with our comments on Progress Report Period 8 for your information/action as required.

Yours faithfully,

  
Steven Bell  
Project Director – Edinburgh Tram

delivering transport projects

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## tie Limited

**Minutes:** Infraco Progress Meeting  
**Date:** 4 November 08  
**Time:** 1300 - 1700  
**Venue:** Ground Floor, Conference Room, Edinburgh Park

<b>Attendees:</b>	Frank McFadden	FM	tie	Colin Brady	CB	BSC
	Dennis Murray	DM	tie	Jim Donaldson	JD	BSC
	Robert Bell	RB	tie	Stefan Rotthaus	SR	BSC
	Tom Hickman	TH	tie	Matthias Hecht	MH	BSC
	Lindsay Murphy	LM	tie	Jim Cowie	JC	BSC
	Bob Cummins	BC	tie	Roland Brueckmann	RBr	BSC
	Alastair Richards	AR	Tel	Baltazar Ochoa	BO	BSC
			Jason Chandler	JCh	SDS	
			Alexjandro Urriza	AU	CAF	
<b>Apologies:</b>	Steven Bell	SB	tie	Jim Rice	JR	BSC
	Susan Clark	SC	tie	Alfred Brandenburger	AB	BSC
				Jim Noblett	JB	BSC
				Grahame Duff	GD	BSC
				Alan Dolan	AD	SDS

	WHAT	WHO	WHEN
1.	<b><u>Previous Actions</u></b>  Previous minutes and commentary was agreed by BSC.  15 actions have now closed out, with a further 5 outstanding actions to be closed out by tie. BSC to provide an update on all remaining outstanding actions.	Note	04.11.08

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	WHAT	WHO	WHEN
2.	<p><b>Executive Summary</b></p> <p>FMcF/CB agreed all issues would be discussed through each section of the report.</p>	Note	
3.	<p><b>HSQE</b></p> <p><u>Safety Management, including CDM</u></p> <p>BC advised that during tie's Executive Management site visit to Leith they were very impressed with the attitude to safety management and site tidiness of Crummock's. CB thanked BC and advised that this comments had been passed to Crummock's</p> <p><u>Accidents &amp; Incidents</u></p> <p>CB advised that a further 2 incidents had occurred since the 24 October 2008: (i) Carrick knowe Bridge – excavator (ii) Edinburgh Park Bridge - JCB</p> <p><u>Accident, Incident, Reporting Process</u></p> <p>BC briefed the above process and advised BSC of the following: - tie to be advised within 3 hrs of a serious and or significant accident/incident; tie to be advised within 24 hours on of accident/incident in not classified as series. BC advised that tie's aspiration is that tie will be aware of all accidents/incidents within a 3 hour timescale.</p> <p>FMcF to arrange meeting within next 4 weeks to discuss process with relevant parties.</p> <p><u>Inspections</u></p> <p>JN to ensure findings of BSC inspections within period along with future dates of inspections are entered within report.</p> <p><u>Quality Management</u></p> <p>DR to ensure detail of audits conducted along with findings are added to future reports.</p> <p><u>Inspections &amp; Test Plans</u></p> <p>5 out of 6 Inspections &amp; Test Plans have now been accepted with comments, with a further 5 being resubmitted by w/e 07.11.08.</p>	<p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>FMcF</p> <p>JN</p> <p>DR</p> <p>Note</p>	<p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p>

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3.	<p><b>HSQE (cont)</b></p> <p><u>Inspection &amp; Test Plans</u></p> <p>JCh outlined SDS's responsibility in how SDS undertakes the Inspection &amp; Test Plan role; however SDS is not responsible for the quality of works. Progress Report requires to outline findings on site i.e. what has been inspected and against what – reference drawings etc.</p> <p>The undertaking of this key role requires to be planned within the works with the responsibility of this being within BSC.</p> <p>RB to arrange meeting with BSC/SDS to discuss full implementation.</p> <p><u>Project Management Plan</u></p> <p>Plan to be issued within the next 2 weeks.</p> <p><u>Archaeological &amp; Heritage Mitigation Plan</u></p> <p>Plan will be returned to BSC by w/e 14.11.08.</p> <p><u>Construction Phase Project Environmental Management Plan</u></p> <p>Plan will be returned to BSC by w/e 14.11.08.</p>	<p>JCh</p> <p>BSC</p> <p>tie/BSC/SDS</p> <p>BSC</p> <p>RB</p> <p>RB</p>	<p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p>
4	<p><b>Programme</b></p> <p><u>Contract Programme Status</u></p> <p>TH requested that a CD be passed to tie with programme information.</p> <p>Infraco/Utilities programmed works being reviewed to avoid/minimise future clashes.</p> <p><u>Lookahead Programme</u></p> <p>November 2008 – January 2009 will be issued w/c 10.11.08, thereafter in 3 three month rolling blocks.</p> <p><u>Critical Impact Notices</u></p> <p>tie to verify requirement of this section within report.</p>	<p>JC</p> <p>Note</p> <p>Note</p> <p>FMcF</p>	<p>02.12.08</p> <p></p> <p></p> <p>02.12.08</p>

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4.	<p><b>Progress</b></p> <p><u>Approvals &amp; Consents</u></p> <p>Minutes of Design Meeting held on 23 October 08 to be distributed.</p> <p>BSC do not agree with tie's position that BSC's designer has failed to receive the necessary approval/consents within the respective timescales,</p> <p><u>Section 1</u></p> <p>JCh advised that SDS had now provided Scottish Water with a priority listing however concern was raised that due to W Kirber's of Scottish Water workload these priorities may not be met. RB to raise with Scottish Water.</p> <p>By Pass Road – delay currently affects 9 deliverables within the programme, 4 prior approvals still to be submitted.</p> <p><u>Sub Section 5A</u></p> <p>IFC now issued, JCh to provide detail on Russell Road Retaining Wall in respect of Sewer clash no longer being an issue.</p> <p><u>Sub Section 5C</u></p> <p>Tram stop – Gogarburn – awaiting tie change.</p> <p><u>Issues &amp; Concerns</u></p> <p>FMcF requested that the following items are identified within the document:-</p> <ul style="list-style-type: none"> <li>• Report against programme</li> <li>• What / where are the blockers</li> <li>• Concerns</li> </ul> <p><u>E&amp;M System Design</u></p> <p>EMC/.....</p>	<p>RB</p> <p>Note</p> <p>RB</p> <p>Note</p> <p>JCh</p> <p>Note</p> <p>BSC</p>	<p>02.12.07</p> <p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p>

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4.	<b>Progress</b>		
	<u>EMC</u>		
	RBr has formally asked NWR for quotation	Note	
	<u>Overhead Line Equipment</u>		
	Design		
	Letter with OCS Design Programme to be reissued to tie, however this item will be discussed at the OLE Development workshop on 17.11.08	RBr	02.12.08
	Approvals & Consents		
	FMcF advised that it is tie's view that the procurement process for E&M Design is BSC's risk.	Note	
	<u>Traction Power Supplies</u>		
	Dates now on critical path due to late submission of quotes from Scottish Power. Design conflicts with TSC's to discussed at OLE Development workshop.	Note	
<u>Traffic Light Control</u>			
Further visibility required within report for next period.	RBr	02.12.08	
<u>Trackwork</u>			
RBr to ensure Rail Wheel Back to Back Measurements are reviewed in time for CAF design process.	RBr	02.12.08	
<u>Issues &amp; Concerns</u>			
RFI's 055681 and 050016 have now been responded too.	Note		
FMcF raised concern that cast manganese had still not been procured. RBr to advise timescale of procurement	RBr	02.12.08	

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4.	<p><b>Progress</b></p> <p><u>E&amp;M System Design</u></p> <p>Issues &amp; Concerns</p> <p>Storage area for shipment of rails is Leith and not Gogar. FMcF reiterated that tie were obligated to provide land for storage, it should be noted that tie disagrees with BSC's comment 'the originally planned storage area in the depot is not available yet due to ongoing MUDFA delay in handing over area'.</p> <p>RBr to confirm date of delivery of rails.</p> <p>OCEP does not cover delivery by sea.</p> <p><u>Telecoms</u></p> <p>Formal design submission is on target to be complete by 07.11.07.</p> <p><u>Tram Design</u></p> <p>Revised proposal was issued by BSC to Alastair Richards on Friday 31 October 08, AR advised he had not received this proposal to date (04.10.08). AR advised that he had spoken to the Bus Tracker Supplier and prices are consistent with Lothian Buses.</p> <p>It is hoped that approval will be gained on 6 November 08 for Mock Up.</p> <p>tie requested that BSC integrate all elements of report to allow improved visibility.</p> <p><u>System Assurance</u></p> <p>Timeline plan to be issued within the period.</p> <p><u>Design Change Management</u></p> <p>CB advised that correspondence in respect of the above subject will be forwarded to tie in due course. CB to discuss content of letter with FMcF prior to receipt.</p> <p><u>Value Engineering</u></p> <p>Roseburn Viaduct – please refer to INF CORR 309 and 25.1.201/GC646</p>	<p>Note</p> <p>RBr</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>BSC</p> <p>BSC</p> <p>Note</p> <p>Note</p>	<p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p>

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4.	<p><b>Progress</b></p> <p><u>Value Engineering</u></p> <p>VE12 Edinburgh Park Bridge – order to be placed to meeting 1<sup>st</sup> March 09.</p> <p>tie concerned that VE is not materialising as expected – cast manganese may be a VE savings – RBr to speak with suppliers.</p> <p><u>Request for Information</u></p> <p>RB to schedule meeting with SR and relevant parties to allow all items to be closed out.</p> <p><b>Civil &amp; Building Works</b></p> <p><u>Sub Contractors</u></p> <p>General</p> <p>Formal request to sub contract works to Farrans and Crummocks has been submitted and approved by tie.</p> <p>Section 1D</p> <p>CB advised that BSC has commenced negotiations with relevant Sub Contractors on 27.10.08. It is hoped that BSC will seek approval from tie within 2 weeks.</p> <p>Section 2</p> <p>The appointment of Graham's as a sub contractor will be undertaken in due course.</p> <p>Section 6</p> <p>A formal request to sub contract works to Barr Construction has as yet to be submitted.</p> <p>BSC to ensure WPP's are submitted to NWR within correct timescales.</p> <p>JD to provide outline of fabrication plan.</p> <p>Construction</p> <p>Section 1B/.....</p>	<p>Note</p> <p>RBr</p> <p>RB</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>JD</p>	<p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p>

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4.	<p><b>Progress</b></p> <p><b>Civil &amp; Building Works</b></p> <p>Construction</p> <p>Section 1B</p> <p>RB advised that WPP's do not detail all works being undertaken i.e. street lighting, traffic lights etc. BSC to ensure WPP's detail all works.</p> <p>tie/BSC to agree scope on standard of how ongoing works are to be left during embargo period.</p> <p>FMcF requested that BSC identify areas where work could continue outwith the embargo area.</p> <p>Section 1C</p> <p>JD to confirm if correspondence has been sent to tie outlining that works within this section have now been delayed to 17 November 08.</p> <p>Section 2A</p> <p>BSC advised that the wall located at Haymarket will be secure within 3 weeks. JD will advise of any acceleration of work.</p> <p>Section 5B</p> <p>Carrick knowe Bridge – HV cable being installed 03.11.08</p> <p><b>E&amp;M Systems</b></p> <p><u>OLE</u></p> <p>BSC to explain impact where possible.</p> <p>SCADA</p> <p>Requirements from TPS etc collated\la for SCADA, preliminary design in progress – report not submitted to date (03.11.08)</p>	<p>BSC</p> <p>RB/JD</p> <p>BSC</p> <p>JD</p> <p>Note</p> <p>Note</p> <p>RBr</p> <p>Note</p>	<p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p>
5	N/A		

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6.	<p><b>Stakeholder and Third Party Issues</b></p> <p>Stakeholder management to be transferred to Project Manager's and Infraco Director within 2 weeks.</p> <p>FMcF to arrange Employers Requirement Meeting within period.</p>	<p>Note</p> <p>FMcF</p>	<p>02.12.08</p>
7.	<p><b>Commercial</b></p> <p>Action plan being formulated to resolve major commercial issues.</p> <p><u>Milestones</u></p> <p>David Gough will meet with Eric Smith/Bob Bell and will identify criteria for milestone payment on 13.11.08</p> <p>FMcF/DM to advise BSC what is being proposed in respect of prelim payments.</p> <p><u>Risks &amp; Opportunities</u></p> <p>CB advised that Alfred Bradenburger will be consortium delegate for formulation of joint Risk Registers. Initial Risk Meeting to be arranged this period.</p>	<p>GD/DM</p> <p>DG/ES</p> <p>FMcF/DM</p> <p>MH</p>	<p>Ongoing</p> <p>02.12.08</p> <p>02.12.08</p> <p>02.12.08</p>
8.	<p><b>Resources</b></p> <p>The following members of staff have now joined the organisation:-</p> <p>Brian Walker, Section Manager, BSC Douglas Ross, Quality Manager, BSC Gail Blythe, Project Manager Signalling &amp; Communications, tie</p> <p>CB still to provide staffing programme for key positions, tie now feel that the lack of management staff within BSC is having a detrimental effect on works.</p> <p>CB advised that accommodation works which are currently taking place within current compound is for Siemens staff. This facility does not include workspace for SDS.</p>	<p>CB</p>	<p>04.11.08</p>
9.	<p><b>AOB</b></p> <p><u>Design &amp; Assurance</u></p> <p>Tabular information will be provided in future reports.</p>	<p>Note</p>	

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	WHAT	WHO	WHEN
9.	<p><b>AOB</b></p> <p><b>HSE Meeting</b></p> <p>BC advised CB that the above meeting is scheduled for 1400 hours on Tuesday 03 December 08. Meeting invites will be sent in due course.</p> <p><b>Drawings</b></p> <p>Concern raised that tie Document Control are receiving drawings directly from SDS. SDS to ensure that all drawings are submitted through BSC.</p> <p><b>Date of Next Meeting</b></p> <p>Tuesday 02 December 08 at 1300 hrs, Ground Floor Conference Room, Edinburgh Park.</p>	<p><b>Note</b></p> <p><b>JCh</b></p> <p><b>Note</b></p>	<p><b>02.12.08</b></p>

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### Comments on Infraco Period 8 Report

Item No	Section	BSC Comments	Comments
1. Exec Summary	General	1 <sup>st</sup> paragraph - 27,000 hours worked, of which 10,000hrs were site hours.	Shows the imbalance between back office staff [commercial/procurement /etc] and the site personnel delivering the project.
1. Exec Summary	General	4 <sup>th</sup> paragraph includes development workshops to "produce approved designs to support procurement and construction".	tie need BSC to spell out how these fit into the wider issue of design completion and CEC approval of any design amendments from the SDS base design.
1. Exec Summary	General	6 <sup>th</sup> paragraph – significant changes to foundation works are required due to unsuitable ground conditions.	Piers 5, 6 & north abutment - excavation of soft material and replacing it with imported rock is not a significant change. Piers 3 & 4 temporary works piling – BSC need to explain why they believe there has been a significantly change to their temporary works design.
1. Exec Summary	General	6 <sup>th</sup> paragraph - Un-diverted utilities in the first work site are severely hampering progress	Delays associated with services diversions contributed to by BSC failing to action estimate request issued 2 <sup>nd</sup> July. Additionally BSC unprepared for dealing with utility disconnections, lighting, telecom etc.
1. Exec Summary	General	No comments	No mention of BSC problems i.e.: No progress on earthworks at Balgreen to Carricknowe. A8 piling problems.
2.1.2	Accidents & Incidents	No reportable incidents in the period.	1no. incident on 15/10/08 & 23/10/08, but not reported to tie until 31/10/08.
2.1.2	Accidents & Incidents	No accidents or near misses to 24/10/08.	Farrans eye injury 15/10/08. Farrans dump truck 24/10/08.
2.2.1	Quality Management	ITPs are being developed for scheduled activities.	ITP's still to be agreed with tie.
2.3.2	Environment Management - Issues	JKWeed at Viking building	BSC have not produced report on incident to Tie PM, 2 weeks since incident. Tie PM visited site to inspect, JKweed had been placed on rubble from demolished building, viewed to be more than the one skip load mentioned in period report.
3.1	Programme	2 <sup>nd</sup> last paragraph - The need to undertake redesign at South Gyle Access Bridge and hence delay its construction is currently driving the final "Tram in Revenue Service" date.	Delay partly caused by SDS ignoring tie instructions. tie to decide way forward with structure.
3.3	Design & Consents Programme Status -	2 <sup>nd</sup> paragraph - The combined effect of post V31 design programme slippages, late site possession due to presence of MUDFA etc	No recognition of late mobilisation by BSC.

Item No	Section	BSC Comments	Comments
3.5	Critical Impact Notices – CIN005 Network Rail Form C Implications - ongoing	The Murrayfield structures and Bankhead Drive Retaining Walls continue to be delayed due to unresolved design issues.	<p>Murrayfield structures and Bankhead Drive Retaining Walls – BSC looking at rationalising the SDS IFC designs, this is delaying the Form C preparation and submission.</p> <p>Baird Drive – BSC also looking to redesign this structure – [ref. look ahead programme], which is also delaying Form C preparation &amp; submission.</p> <p>Delay in preparation of Form C's is delaying approval by NR.</p> <p>Delay in preparation of WPP's for works interfacing with the railway is also delaying the works. Poor quality of the WPP submissions also delays NR approvals. BSC still lacking personnel with rail experience.</p>
4.1.2	E&M design	Design Progressing	Can BSC hold regular update meetings with Tie PM to detail BSC process for design and update on progress, not currently happening. (PM not invited if they are)
4.1.1.2	Approval & Consents – Prior approvals	Only 4 Prior Approvals left to submit	<p>This is true for original scope but there are also amendments to Prior Approvals to submit at Murrayfield Stop Retaining Walls / Roseburn Viaduct / Murrayfield Stadium Retaining Walls and at Haymarket and these are not reported on.</p> <p>Ocean Terminal batches certainly cannot be determined until finishes are agreed with Forth Ports.</p> <p>Victoria Dock Entrance Bridge IFC was granted on 31/10 ahead of schedule to allow IFC next week</p> <p>Listed Building Consents – last 3 consents were granted by the Council on Friday</p>
4.1.1.2	Approvals & Consents – sub section 1A1	Roads	Prior Approval batches 1/01a/b/c – b & c were approved on 19/9 and should have been reported as such in the report – 1/01a was approved on 31/10
4.1.1.2	Approvals & Consents – sub section 1A1 & 1A2	Roads	Claimed to be delayed by CEC comments – these were approved with comments on 18/9 – 6 and 7 days early respectively. So unless BSC can demonstrate that any of the CEC comments are unreasonable then the delay is caused by the design deficiencies not the comments.

Item No	Section	BSC Comments	Comments
4.1.1.2	Approvals & Consents – sub section 1A3	Roads	Roads – further meeting being arranged by Alasdair Sim to clarify as much as possible from the RFI on the bypass road.
4.1.1.2	Approvals & Consents – sub section 1A4	Roads	Potential change and extension of time here due to CEC change – I will investigate with CEC this week and respond. I am surprised we haven't had a letter from BSC about this yet.
4.1.1.2	Approvals & Consents – sub section 1A4	Roads	Demarcation – this is a critical issue, will soon impact on construction programme and requires focus from all of tie, BSC and CEC – meeting required this week CEC roads / CEC planning / BSC (Stefan Rotthaus) / tie (Lindsay Murphy) to thrash this out. BSC need to confirm whether there will be changes to the OLE design at the Foot of the Walk that potentially improve the situation.
4.1.1.2	Approvals & Consents – sub section 1C1	Roads	Demarcation is not yet delaying closeout report and Design Assurance Statement as SDS has not yet resolved all other CEC comments but it soon will
4.1.1.2	Approvals & Consents – sub section 1C2	Roads	CEC has requested “complete information” not “additional information”
4.1.1.2	Approvals & Consents – sub section 1C3	Roads	As with 1A1 and 1A2 unless BSC can demonstrate that any of the CEC comments are unreasonable then the delay is caused by the design deficiencies not the comments.
4.1.1.2	Approvals & Consents – sub section 1D	Roads	Comments are generally fair and delay has been caused by original CEC instruction in 2006 & by CEC changing mind over taxi rank in front of station. Approval with comments was granted on 2/10 – this is not reported by BSC.
4.1.1.2	Approvals & Consents – sub section 1D	Shandwick Place	Confirmation required from BSC that redesign work is being undertaken
4.1.1.2	Approvals & Consents – Sub-section 5A	Russell Road Retaining Wall - IFC Issued – Sewer Clash no longer an issue - Change Request is withdrawn	Clarification required on how issue was resolved.
4.1.1.2	Approvals & Consents – Sub-section 5A	Murrayfield Stadium Tramstop	Confirmation required from BSC that redesign work is being undertaken
4.1.1.2	Approvals & Consents – Sub-section 5B	RBS tramstop	Instructed on 15/10 – report does not reflect this – information appears not to have reached SDS from BSC – should not be on hold

Item No	Section	BSC Comments	Comments
4.1.1.2	Approvals & Consents – Sub-section 5B	Roads	Delay started with SDS not submitting on time and not submitting full packages. Volume of comments is as 1A1, 1A2, 1C3
4.1.1.2	Approvals & Consents – Sub-section 5C	IFC Roads, Track, Drainage, Street Lighting IFC outstanding.	IFC Track alignment issued 20/10/08.
4.1.1.2	Approvals & Consents – Sub-section 5C	Tram stop Gogarburn	Instruction to SDS issued Oct 08. DS/MP have details.
4.1.1.2	Approvals & Consents – Sub-section 5C	Roads	Actually delayed by decision to adopt junction within Edinburgh Park – this is a tie change
4.1.1.2	Approvals & Consents – Sub-section 6	Roads	SDS very late in supplying all information requested by CEC – despite repeated requests by CEC
4.1.1.2	Approvals & Consents – Sub-section 7A	Tramstop Edinburgh Airport BSC await BAA confirmation of design for covered walkway over kiosk. BAA still to confirm approval of concourse and track.	Meeting to be arranged w/c 3/11/08 to confirm. Design of kiosk walkway likely to be through BAA.
4.1.2.6	Trackwork	Issues & Concerns – 4 <sup>th</sup> paragraph	RFI 055681 Track stiffness replied on 14/10
4.1.2.6	Trackwork	Issues & Concerns – 5 <sup>th</sup> paragraph	RFI 050016 Change Track forms FRI replied to on 29/08 I would suggest the RFI numbers do not match the RFI. RFI set to Klaus Dieker on the 30/09 asking for the meeting requested on the reply.
4.1.6	Value Engineering - Civils & Building	BSC have challenged the validity of tie's instruction to deliver the VE saving on Roseburn Viaduct as detailed in Schedule 4. Given that the SRU agreement requires amendment to the design, we have progressed the outline design to the point that a change order to accommodate the SRU requirements could be actioned if issued by tie.	BSC should have instructed SDS to progress the VE design following the meeting on 03/10/08.
4.2.1.1	Civil & Building Works - Procurement – Subcontractors : Section 2A & 5A (part)	Until such times as we have concluded our subcontract discussions with Grahams we are proceeding with the employment of labour only Subcontractor's to progress the works.	Works at Haymarket Viaduct progressing very slowly due to a lack of experienced Section Manager to carry out forward planning. Delaying design & construction of the Verity House Access will result in further delays to the structure, as piers 1 & the west abutment cannot be started until the Verity House Access is in place.

Item No	Section	BSC Comments	Comments
4.2.1.1	Civil & Building Works - Procurement – Subcontractors : Section 5A (part), 5B & 5C (part)	To secure possessions, Steel Foundations were employed to install temporary sheet piling at Edinburgh Park Bridge. Negotiations with a Preferred subcontractor is ongoing.	Construction of the Edinburgh Park structure has been delayed by the ongoing discussions with the preferred contractor. Blinding to pier 5, 6 & north abutment completed w/e 26/09/08, no further work to the structure carried out to date apart from the temporary sheet piling to piers 3 & 4.
4.2.1.1	Civil & Building Works - Sub Contractors - Section 6	We are currently finalising the terms and conditions of the full sub contractor order for Barr Ltd for the construction of the depot. In the meantime Barr Ltd will progress any area of the depot which is considered to be critical to our progress, at risk pending IFC design, and assuming that access is made available.  A formal request tie to sub contract the works to Barr Ltd has been submitted to tie and a response is awaited.	No mention of progress with structural steelwork fabrication. As discussed I believe this has not commenced due to large numbers of Barr Steel TQ.
4.2.1.2	Procurement - Materials	Procurement of precast beams, bearing and other major materials are progressing.	Actual status of orders to be clarified.
4.2.2.1	Construction – Section 2A Haymarket to Roseburn Jn	Haymarket Viaduct – piers 2 & 3 wall shutters are due to be erected following with the walls scheduled to be cast on Monday 3rd November 2007.	Pour date is 05/11/08.
4.2.2.1	Construction – Section 2A Haymarket to Roseburn Jn	Abutment redesign is with CEC for technical approval and the temporary works design will be complete by 1st Nov.  Actual progress – 20%	Temporary works design for pier 4 & east abutment is now due w/c 03/11/08.  Progress slippage is due to lack of forward planning & delay in completing SI to allow Tony Gee to prepare their temporary works design. Tony Gee also doing all the temporary works design for the project, therefore this will cause delays due to lack of resources & the number of temporary works designs required in the immediate future.



Item No	Section	BSC Comments	Comments
4.2.2.1	Construction - Section 5A Roseburn Junction to Balgreen Rd	Baird Drive Retaining Wall - Site Clearance has been completed. Site Clearance to Murrayfield Retaining wall has continued.	Baird Drive Retaining Wall – Tree stumps remain to be removed.  No work carried out at Murrayfield during the period.
4.2.2.1	Construction - Section 5A Roseburn Junction to Balgreen Rd	Murrayfield Stadium Underpass – Following assessment of further GI, SDS are proceeding with ground improvement design for Murrayfield Retaining Walls.	Details of ground improvements required. What are the benefits to the project?
4.2.2.1	Construction -Section 5B Balgreen Rd to Edinburgh Park Central	Carrick Knowe Bridge - Haul road and piling platform to the South abutment completed during the disruptive possession of the 26th Oct.	Work on the haul road & piling platform continued w/e 31/10/08. Possession 02-03 Nov. 08 abandoned due to WPP & Form C not being submitted to NR for approval on time. Quality of WPP poor due to lack of experienced rail personnel preparing WPP's.
4.2.2.1	Construction -Section 5B Balgreen Rd to Edinburgh Park Central	Edinburgh Park Station Bridge – Site Access works been completed. Unforeseen ground conditions resulted in the re-design of Temporary Works. Additional excavation to a suitable formation and the import of structural fills has been necessary. This delayed the Form C submission by 3 weeks	Form C submission delayed due to late appointment of Tony Gee. Tony Gee also carrying out Temporary works design for a number of structures, which is stretching their resources.
4.2.2.1	Construction -Section 5B Balgreen Rd to Edinburgh Park Central	Edinburgh Park Station Bridge - Sheet piling to piers 3 and 4 adjacent to the railway completed in possessions.	Sheet piling to piers 3 & 4 should be completed during a possession 02-03 Nov. 08, subject to no further plant break-downs.
4.2.2.1	Construction -Section 5B Balgreen Rd to Edinburgh Park Central	Unforeseen ground conditions resulted in the re-design of Temporary Works	The only issue BSC raises re the above is the further site investigations required at Edinburgh Park due to unforeseen ground conditions which in itself is a valid reason but does not highlight the following issues, <ul style="list-style-type: none"> <li>• Why BSC have as yet not submitted a High Risk WPP to NWR within the specified time scale</li> <li>• BSC did not make full use of a booked distributive possession at Carrick Knowe some 5 days long with only 2 days used to form a haul road, all of which could have been undertaken without a possession</li> <li>• Late appointment of their temporary works contractor some Mid July</li> <li>• BSC started their own GI prior to the appointment of Tony Gee it had to be done again due to the quality of information produced by BSC</li> </ul>

Item No	Section	BSC Comments	Comments
4.2.2.1	Construction -Section 5B Balgreen Rd to Edinburgh Park Central	Unforeseen ground conditions resulted in the re-design of Temporary Works	<ul style="list-style-type: none"> <li>After TIE issued a instruction to BSC to proceed at risk on Russell Rd back on 18/05 we are still awaiting a WPP from BSC on GI at the rear of the existing bridge</li> </ul> <p>Within the industry one of the main KPIs is usage of disruptive possessions and to be in the situation where we underutilized a 5 day blockade would not be seen in a positive light with the view taken that it would be poor planning on BSC part. The issue of the GI would also be seen as poor planning as the disruptive possessions are all booked at t -74 weeks the contractor is expected to work back from the T date and plan accordingly. All the possession dates were provided to BSC back in November 2008</p>
4.2.2.1	Construction -Section 5B Balgreen Rd to Edinburgh Park Central	Edinburgh Park Station Bridge - Actual Progress – 1%	Blinding to pier 5, 6 & north abutment completed w/e 26/09/08, no further work to the structure carried out to date apart from the temporary sheet piling to piers 3 & 4. This is due to BSC's ongoing discussions with the preferred subcontractor and a lack of in-house resources to manage labour only subcontractors.
4.2.2.1	Construction - Sub Contractors - Section 5C Edinburgh Park Central to Gogarburn	Section 5C - A8 Underpass – Diversion of existing services is complete for Phase 1. Alternative pedestrian diversion has been established. Piling commenced on 15 October 08 and is scheduled for Phase 1 completion on 6 November.	Delays at A8 underpass since 22/10 due to non compliant pile cage issues i.e. diameter of pile cage, number of links and depth of piles.
4.2.2.1	Construction - Section 5C Edinburgh Park Central to Gogarburn	Gyle Centre Tram Stop Retaining Wall – These works remain on hold awaiting MUDFA completion. Infraco works were due to start 01 August 2008 (V34) but are delayed dependent on Completion of the MUDFA Work.	BSC do not have a package contractor onboard and do not have the resources in-house to deliver this structure themselves.
4.2.2.1	Construction – Sub Contractor – Section 6A Depot	Section 6A - Barr are scheduled to take possession of site 3/11/08.	Even with problems related to 800 water main Infraco have access to construct drainage tie in manhole for temporary and permanent drainage works
4.2.2.1	Construction – Sub Contractor – Section 7A Gogarburn to Edinburgh Airport	Section 7 A- 2 <sup>nd</sup> paragraph : Progress Section 7 are 2.5 weeks behind programme. Late IFC issues, archaeological dig, spoil removal and sewer diversion.	No mention of BSC staff resource issues that have delayed progression of sewer diversion works in particular. BSC have provided an alternative solution VE to problem of sewer diversion and through lack of co-ordinated D&C management diversion has been delayed. tie instruction issued July 08.

Item No	Section	BSC Comments	Comments
4.2.2.1	Construction – General	3 <sup>rd</sup> paragraph – The scope of sewer diversion works at Gogarburn Bridge has yet to be resolved. SDS has provided backup information regarding the assumptions made in reaching the current design.	Assumption made that this is not relating to the Gogarburn Bridge diversion which is a 300mm pipe 1m below ground level and is unlikely to require a specialist contractor. Please note Farrans have carried out extensive works for SW during various framework initiatives
4.2.1.2	Procurement - Materials	Procurement of precast beams, bearing and other major materials are Progressing.	Actual status of orders to be clarified.
4.2.1.3	Long Lead Procurement Management	Design issues preventing us issuing an order for the supply of the precast concrete beams to Edinburgh Park have now been resolved and an order is now placed.	Who has order been placed with for the Edinburgh Park Bridge precast concrete beams? What is the planned delivery date? Has trial erection of the beams [particularly for the span over the railway 3-4]) been included in the order? What is the status of the order for the Carrick Knowe Bridge beams?
4.3.7	HV LV Supplies	Quotes for Ingliston P&R, Gogar Depot and Haymarket to be received 29 <sup>th</sup> October	Quotes have not yet been received for Ingliston and Depot; these are now 2 months later than SP promised.  Quotes for these are now on critical path.
6	Stakeholder and Third Party Issues	Planning proposals for Section 1D have been developed to enable public/stakeholder communication prior to commencement in January 09. BSC are attending the monthly Project Stakeholder Consortium Committee meetings and attended the Tram Board to brief executives on current proposals.	Very little commentary relating to stakeholder issues. In Section 5C I have had complaints from residents regarding blocked access to Gogar Castle Road. I also have a weekly meeting with Gogar Cabinetmakers to address concerns regarding increased traffic to access road. No mention of Network Rail management issues
8	Resources	Organisation	BSC's lack of experienced Section Manager is hampering forward planning. Lack of package contractors is delaying progression of the works.

Item No	Section	BSC Comments	Comments
10.2	4 Month Look Ahead Programme	Haymarket Viaduct – Piers 2 & 3 100% complete.	The walls of piers 2 & 3 are due to be poured 05/11/08, therefore not 100% complete.
10.2	4 Month Look Ahead Programme	Russell Road Under Bridge – Form C submission date 22/09/08.	Form C submission date on the Form C schedule issued by BSC on 28/10/08 is 08/12/08.
10.2	4 Month Look Ahead Programme	Murrayfield Stadium Underpass [S21C] – Form C submission date 16/09/08.	Form C submission date on the Form C schedule issued by BSC on 28/10/08 is 08/12/08.
10.2	4 Month Look Ahead Programme	Carrick Knowe Bridge – South abutment 10% complete.	Construction of the structure has not commenced.
10.2	4 month look ahead programme – A11970	TM installed 100% north bound Leith Walk	This activity is only circa 85% as section opposite Manderston Street has been omitted to allow ongoing Mudfa works. Tie believe a modified scheme can be installed which will allow progress on the north side currently persuading BSC to implement.
10.2	4 month look ahead programme – A11990	Installed kerbing 0% complete	Currently installation of approximately 70% of the repositioned kerbing has been completed on from Ch100 to Ch350 on the west side of Leith Walk.

