



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

Our Ref: INF CORR 506

Date: 11th December 2008

Dear Sirs,

**Edinburgh Tram Network - Infraco  
Infraco Progress Meeting**

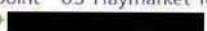

Please find attached herewith Minutes of Progress Meeting No 8 Period 9, along with our comments on Progress Report Period 9 for your information/action as required.

Yours faithfully,

  
Steven Bell  
Project Director - Edinburgh Tram

delivering transport projects

tie limited

Citypoint 65 Haymarket Terrace Edinburgh EH12 5HD  
tel: +  fax +  web [www.tie.ltd.uk](http://www.tie.ltd.uk)

Registered in Scotland No: 230949 at: City Chambers, High Street, Edinburgh EH1 1YJ

CEC00423799\_0001





## tie Limited

**Minutes:** Infraco Progress Meeting  
**Date:** 02 December 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
	Colin Kerr	CK	tie	Jim Cowie	JC	BSC
	Bob Cummins	BC	tie	Roland Brueckmann	RBr	BSC
	Alastair Richards	AR	Tel	Baltazar Ochoa	BO	BSC
	Steven Bell (part)	SB	tie	Jim Noblett	JN	BSC
			Douglas Ross	DR	BSC	
			Jason Chandler	JCh	SDS	
<b>Apologies:</b>	Susan Clark	SC	tie	Alfred Brandenburger	AB	BSC
				Grahame Duff	GD	BSC
				Alan Dolan	AD	SDS
				Alexjandro Urriza	AU	CAF

	WHAT	WHO	WHEN
1.	<u>Previous Actions</u>  Previous minutes and commentary was agreed by BSC.  24 actions have now been closed out, with a further 3 outstanding actions to be closed out by tie. BSC to provide an update on all remaining outstanding actions.	Note	02.12.08

DOC.NO.	VERSION	STATUS	DATE	SHEET
INFRACO PROGRESS MEETING NO 8	1	Approved	02 December 08	1



	WHAT	WHO	WHEN
2.	<b>Executive Summary</b>  FMcF/CB agreed all issues would be discussed through each section of the report.	Note	
3.	<b>HSQE</b>  Format of report to be reviewed and agreed by JN/BC prior to submission. <u>Safety Management, including CDM</u>  Construction Phase Health & Safety Plan Rev 3 to be submitted by BSC following review and updates to include new roles and responsibilities and Work Package Contractor's Plans.  <u>Accidents &amp; Incidents</u>  Following incident at Leith Walk, BSC to ensure BAM Rail competencies are in line with UK Legislation.  The following workshops have been arranged by BSC to address any Safety Management concerns:-  <ul style="list-style-type: none"> <li>▪ Briefing of BSC Procedures</li> <li>▪ Consultation with workforce where concerns are raised</li> </ul> Outline plan to be provided on any Safety Management concerns raised.  Joint forum on Safety/Risk Issues to be arranged for week commencing 05.01.09. Representatives from tie/BSC/Barrs/Farrans/Expanded.  Joint Safety Management Meeting arranged for 12.12.08, representatives from tie/BSC/Carillion will be in attendance.  Number of Safety Issues presented in report to be reviewed by JN.	JN/BC  Note  Note  Note  JN BC  Note  JN	27.1.09
	<u>Inspections &amp; Test Plans</u>  5 ITP's have been 'accepted with comments' and will be re-submitted in new agreed format form of ITP to tie with comments having been addressed.  Construction Support Site Visit Inspection report still to be received by tie. DR to ensure submission.  Inspection and Test Plan Register to be forwarded to Bob Cummins.	Note  DR  DR	  27.1.09  27.1.09

DOC.NO.	VERSION	STATUS	DATE	SHEET
INFRACO PROGRESS MEETING NO 8	1	Approved	02 December 08	2



	WHAT	WHO	WHEN
3.	<p><b>HSQE (cont)</b></p> <p><u>NCR's</u></p> <p>NCR's to be raised for a procedural breach only.</p> <p><u>Audits</u></p> <p>Design Assurance audit to be carried out on 05.12.08. CB to advise JCh.</p> <p>Full report on audit undertaken on MacKenzie Construction to be submitted in due course.</p> <p>Audit to be undertaken on Expanded, week commencing 08.12.08.</p> <p><u>Environment</u></p> <p>Environmental Management</p> <p>Revised Construction Phase Project Environmental Management Plan was resubmitted by BSC w/c 6.10.08. No formal acceptance received to date. SEPA briefing to Project Managers to be undertaken.</p> <p>Deliverables</p> <p><u>Archaeological &amp; Heritage Mitigation Plan</u></p> <p>Formal acceptance of Plan to be provided by tie w/e 05.12.08</p> <p><u>Risk</u></p> <p>Identification of risk for next period to be shown in report.</p>	<p>Note</p> <p>CB</p> <p>JR</p> <p>JR</p> <p>BSC/tie</p> <p>RB</p> <p>BSC</p>	<p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p>
4	<p><b>Programme</b></p> <p><u>Contract Programme</u></p> <p>Delay in Scottish Water approvals and comments from CEC on Roads and Drainage still outstanding. JD advised that if information had an impact on drainage works then civil works would not commence.</p> <p>Feedback received from Scottish Water was that the information being submitted by SDS was not of the quality required.</p> <p>SR/JCh to arrange meeting with Scottish Water representative to ensure solution to current difficulties are met. RB to facilitate meeting.</p>	<p>Note</p> <p>Note</p> <p>SR/JCh</p>	<p>27.1.09</p>

DOC.NO.	VERSION	STATUS	DATE	SHEET
INFRACO PROGRESS MEETING NO 8	1	Approved	02 December 08	3



	WHAT	WHO	WHEN
4.	<p><b>Programme</b></p> <p>FMcF/DM to provide comments on programme V26 – V31</p>	FMcF/DM	27.1.09
5.	<p><b>Progress</b></p> <p><i>Engineering</i></p> <p><u>Production of Design</u></p> <p>SR to provide tracker and graphical information of design packages within next period report.</p> <p><u>Approvals and Consents</u></p> <p>Appendix 10.9.1 to be forwarded to all attendees for information.</p> <p>Integrated Design Workshops are currently being held by BSC, it was felt invites for these meetings should be extended to tie and CEC where upon a final decision could be made prior to this information being provided at Development Workshops. SR to review.</p> <p>Proposals or minutes have not been received re Track form workshop to date. Proposals to be stated clearly on correspondence.</p> <p>Information still to be provided re Integration of EMC and stray current. Proposals to be stated clearly on correspondence.</p> <p><u>Issues and Concerns</u></p> <p>Three estimates had been sent to tie week commencing 24.11.09, to date these have not been received. Further copies to be provided. Two estimates to be sent to tie week ending 05.12.08</p> <p>BSC to close out all design issues pre novation. Process agreed between DM/BO for issues arising following novation agreement. DM to provide a detailed report on issues.</p> <p>JD/RB to review Leith Walk Drawings and provide a report on any issues/concerns they may have.</p> <p>BSC do not agree with tie's position that BSC has failed to receive the necessary approval/consents in respect of Scottish Water within the respective timescales.</p>	<p>SR</p> <p>SR</p> <p>BSC</p> <p>BSC</p> <p>BO</p> <p>CB DM</p> <p>JD/RB</p> <p>Note</p>	<p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p>

DOC.NO.	VERSION	STATUS	DATE	SHEET
INFRACO PROGRESS MEETING NO 8	1	Approved	02 December 08	4



	WHAT	WHO	WHEN
5.	<p><b>Progress</b></p> <p><i>Engineering</i></p> <p><u>Issues &amp; Concerns</u></p> <p>Correspondence sent by CEC to SDS re Demarcation between Tramway and Roadway has not been received to date.</p> <p>FMcF advised that the wishes the Design Issues Meeting to be reinstated. RB/SR to discuss.</p> <p>Technical &amp; Engineering Meeting to be reinstated.</p> <p><b>EMC</b></p> <p><u>Design</u></p> <p>OLE sectioning of depot and mainline was clarified, formation confirmation still required from tie</p> <p>Formal clarification required on submission timescales i.e. 10 business days – where is this stated in contract.</p> <p><i>Trackwork</i></p> <p><u>Design</u></p> <p>Basis of Design Report to be issued to tie within the next 1 – 2 weeks.</p> <p><i>Depot Workshop Equipment</i></p> <p><u>Approvals &amp; Consents</u></p> <p>Under Floor Wheel Lathe Design submitted in October has not been received by tie. RBr to resubmit</p> <p><i>Signalling</i></p> <p><u>Design</u></p> <p>Two copies to discs to be provided to tie by BSC Document Control.</p>	<p>Note</p> <p>RB/SR</p> <p>CB/TG</p> <p>DM</p> <p>RBr</p> <p>RBr</p> <p>RBr</p> <p>RBr</p>	<p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p>

DOC.NO.	VERSION	STATUS	DATE	SHEET
INFRACO PROGRESS MEETING NO 8	1	Approved	02 December 08	5



	WHAT	WHO	WHEN
5.	<p><b>Progress</b></p> <p><i>HV/LV Power Supplies</i></p> <p><u>Design</u></p> <p>RBr to ensure documents from Scottish Power has been received to allow acceleration of process.</p> <p><i>Tram Design</i></p> <p>Tram to go on public display within first half of 2009.</p> <p><i>System Assurance</i></p> <p>High level programme of System Assurance to be compiled.</p> <p>HMRI will require a full approval process to be undertaken with evidence captured within the Inspection &amp; Test Plans.</p> <p>WPP's to be resubmitted prior to the 19<sup>th</sup> December 08.</p> <p>Strategy Document to be approved by Stray Current Working Party.</p> <p><i>Design Change Management</i></p> <p>Document of how designs are modified/integrated to be compiled and provided to tie.</p> <p><i>Value Engineering</i></p> <p>DM/BO to discuss VE saving on Roseburn Viaduct and advise outcome at next meeting.</p> <p>FMcF did not agree with statement 'which will limit achievable VE savings' - please refer to 2<sup>nd</sup> paragraph of 4.1.6 within Progress Report.</p> <p><i>Civil &amp; Building Works</i></p> <p>Sub Contractors</p> <p>Section 1A</p> <p>This section has now been split into three areas, 1A1 Newhaven to Ocean Terminal; 1A2 Ocean Terminal to Bernard Street and 1A3 Bernard Street to Foot of the Walk.</p>	<p>RBr</p> <p>Note</p> <p>BSC</p> <p>BSC</p> <p>BSC</p> <p>BSC/tie</p> <p>RBr</p> <p>DM/BO</p> <p>Note</p> <p>Note</p>	<p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p>

DOC.NO.	VERSION	STATUS	DATE	SHEET
INFRACO PROGRESS MEETING NO 8	1	Approved	02 December 08	6





	WHAT	WHO	WHEN
5.	<p><b>Progress</b></p> <p><b>Civil &amp; Building Works</b></p> <p><u>Sub Contractors</u></p> <p>Section 1A</p> <p>CB advised that a further two sub contractors may be employed to undertake these works.</p> <p>Section 1B</p> <p>Works to be undertaken by Crummocks. DM requested a copy of Crummocks Terms and Conditions prior to commencement of works.</p> <p>Section 2 A and 5A</p> <p>Formal request to be submitted to tie week commencing 04.12.08 re sub contracting works to Grahams</p> <p>Section 5A</p> <p>Edinburgh Park Bridge works to be undertaken by Expanded.</p> <p><b>Long Lead Procurement Management</b></p> <p>RBr advised that BSC had secured delivery slots for the supply of beams for Edinburgh Park. Forum to note that this will protect the programme.</p> <p>'The cost impact of such delay is outside our control and will be the subject of further discussion to tie.' FMcF asked for this comment to be withdrawn from the report, CB agreed to withdraw this statement.</p> <p><b>Construction</b></p> <p>Trial holes to commence at Lindsay Retaining Wall on 15.12.08 for 1 week.</p> <p>Full discussion was undertaken on issues relating to IFC drawings re Forth Ports. <i>Post Meeting Note:- Meeting arranged for 15.12.08 at 1400 hours with tie/BSC/SDS/CEC to discuss Forth Ports.</i></p> <p>Hazard Information has now been passed to BSC for their information.</p> <p>Possibility of undertaking track and pavement work at same time to be investigated.</p>	<p>Note</p> <p>BSC</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>FMcF</p>	<p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p>

DOC.NO.	VERSION	STATUS	DATE	SHEET
INFRACO PROGRESS MEETING NO 8	1	Approved	02 December 08	7



	WHAT	WHO	WHEN
5.	<p><b>Progress</b></p> <p><b>Construction</b></p> <p><u>Section 2A Haymarket to Roseburn Junction</u></p> <p>Haymarket Station Viaduct</p> <p>Detailed programme to be provided by BSC. BSC advised that traffic management will be withdrawn from this area by 19.12.08.</p> <p><u>Section 5A – Roseburn Junction to Balgreen Road</u></p> <p>Programme to be updated in respect of works undertaken at Murrayfield.</p> <p><u>Section 6 - Depot</u></p> <p>To date BSC have not undertaken works instructed at depot for removal of muck.</p> <p><b>E&amp;M Systems</b></p> <p><u>OLE</u></p> <p>RBr advised that the area at Leith will be secured and fenced off.</p> <p><u>BAM Rail</u></p> <p>RBr to ensure BAM Rail employees have the necessary certification/competencies for working and the operation of machinery in accordance with UK standards.</p> <p>BSC to advise how the management of BAM Rail will be undertaken.</p> <p><b>TRW (Trackwork)</b></p> <p>Wheel Back to Back Wheel Rail measurement of 1384mm to be part of proposal from Consortium.</p> <p>BSC to demonstrate the maintainability of cast manganese crossings.</p>	<p>JC</p> <p>JC</p> <p>JD</p> <p>Note</p> <p>Note</p> <p>RBr</p> <p>RBr</p> <p>BSC</p> <p>BSC</p>	<p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p></p> <p></p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p> <p>27.1.09</p>

DOC NO.	VERSION	STATUS	DATE	SHEET
INFRACO PROGRESS MEETING NO 8	1	Approved	02 December 08	8



	WHAT	WHO	WHEN
5	<p><b>Progress</b></p> <p><i>Testing, Commissioning and Start Up</i></p> <p>Integrated commissioning plan to be compiled.</p>	BSC	27.1.09
6	<p><b>Traffic Management</b></p> <p>Section 5 of the report currently not used is to be utilised for Traffic Management. Report to show any conflicts/issues.</p>	BSC	27.1.09
7.	<p><b>Commercial</b></p> <p>Milestones for EMC and Immunisation has now been agreed</p>	Note	
8.	<p><b>AOB</b></p> <p><u>Organisation Chart</u></p> <p>Revised Organisation Chart showing Section Manager's and recruitment plan to be forwarded to FMcF.</p> <p><u>Management of Resource</u></p> <p>Separate discussion to be held between FMcF/CB re above topic</p> <p><u>Date of Next Meeting</u></p> <p>Tuesday 27 January 09 at 1300 hrs, Ground Floor Conference Room</p>	<p>CB</p> <p>FMcF/CB</p> <p>Note</p>	<p>27.1.09</p> <p>27.1.09</p>

DOC.NO.	VERSION	STATUS	DATE	SHEET
INFRACO PROGRESS MEETING NO 8	1	Approved	02 December 08	9



### Comments on Infraco Period 9 Report

Paragraph	Section Name	BSC Comments	tie Comments
1	Executive Summary – 2 <sup>nd</sup> paragraph	Works being planned & managed using the 12 week look ahead programme.	12 week look ahead programme to be issued to tie. When looking for the update to this programme in section 10.3 BSC report states “Not available for this report” Therefore no evidence they are planning or managing their programme of works if they cannot provide this documentation.
1	Executive Summary, 3 <sup>rd</sup> paragraph	Minimal progress on issue of civil IFC design packages particularly those required for trackwork in sections 1 and 7. Efforts to resolve outstanding issues in technical meetings haven’t been successful since issues are largely commercial.	Clear that some issues have been held up by commercial issues. Commercial colleagues will wish to comment more but tie has made several proposals to unlock this situation without an equally positive response from BSC. Other issues are not commercial and BSC has not shown any inclination to meet to resolve issues – all being driven by tie. Specific examples include bat lighting, closure of roads issues.
1	Executive Summary, 4 <sup>th</sup> para	System engineering design & procurement in progress.	Welcome progress but visibility of this work is limited and no programme has been shared with tie. Essential that it is given tie’s responsibilities in relation to approvals.
1	Executive Summary - 5 <sup>th</sup> paragraph	Resolution of communication systems requirements is necessary	Who is to resolve – Siemens, CAF, tie ??? PM SCC not aware of this issue.
1	Executive Summary – 6 <sup>th</sup> paragraph	Limited construction works have been progressed in sections 1B, 2A, 5A, 5B, 5C and 7, but are all impacted by external issues which require resolution through the change process.	Not true – some items may require a change, but a lot of the issues can be resolved by BSC, e.g. package contractors not in place for section 2A & 5A. Grahams now due to start on 2A in Jan 2009. Expanded mobilised at Edinburgh park Bridge w/c 24/11/08, however the blinding to Piers 5, 6 & north abutment was completed in Sept. 08 – BSC did not have in-house resources to progress the structure while negotiating with Expanded. Contractor for Carrick Knowe Bridge still not in place. Temporary works design at Haymarket Viaduct very slow, which is delaying construction of the structure. Initial solution developed by Tony Gee, now being amended due to build ability issues [Tony Gee not a recognised temporary works designer].  Temporary works Forms C’s to date have only been submitted/approved for Edinburgh Park Bridge & Carrick Knowe Bridge.

### Comments on Infracore Period 9 Report

Paragraph	Section Name	BSC Comments	tie Comments
1	Executive Summary – 6 <sup>th</sup> paragraph	Limited construction works have been progressed in sections 1B, 2A, 5A, 5B, 5C and 7, but are all impacted by external issues which require resolution through the change process.	<p>BSC currently redesigning the retaining walls at Murrayfield &amp; Baird Drive to reduce the extent of the temporary works, therefore not in a position to start these structures. Roseburn Street Viaduct – BSC late progressing this VE exercise. WPP's continue to be inadequate and submitted last minute, e.g. submitted on Friday for start on Monday.</p> <p>Programmes for the structures are still in draft, site teams not doing any formal short-term planning [2/4 week programmes], which is reflected in documentation being rushed through last minute.</p> <p>No comments on internal issues i.e. suspension of works at A8 due to piling construction/design problems or no SEPA car licences/registrations in place causing delay on Section 7 or no agreement reached with BARR commercially to move available material from Depot.</p> <p>Insufficient Resources: BSC currently using 2no. Section Managers to manage all works from Princes Street to Edinburgh Airport.</p>
2.1.2	Health & Safety		No mention of the RIDDOR where office worker slipped down stairs and fractured shoulder. (After 21.11.08, reported as a RIDDOR on Tuesday 25.11.08)
2.2.1	Quality Management – 2 <sup>nd</sup> Paragraph	SDS's role within the ITP's has now been clarified and agreed between all parties and SDS have revised the weekly "Construction Support Site Visit Inspection" reporting format in accordance with tie's comments.	SDS weekly inspection reports currently not being submitted to BSC/tie.
2.2.2	NCR's	1 Ncr raised in the period	<p>There has been three</p> <ul style="list-style-type: none"> <li>• Edinburgh Park (Site Security) 27/10</li> <li>• Carrick Knowe (Site Security) 12/11</li> <li>• South Leith (Unsafe Working) 20/11</li> </ul> <p>With all of the above no close out plan from BSC</p>

### Comments on Infraco Period 9 Report

Paragraph	Section Name	BSC Comments	tie Comments
2.3.1	Environmental Management		BSC have not raised issue of SEPA CAR licences not being in place for the structures at watercourses. This is a project wide issue with immediate impact on Gogarburn Bridge.
3.5	Critical Impact Notices	CIN005 – Network Rail Form C Implications – Ongoing The Murrayfield structures and Bankhead [?] [Baird] Drive Retaining Walls continue to be delayed due to unresolved design issues.	BSC currently redesigning the Murrayfield and Baird Drive retaining walls to reduce the temporary works required [remove SSP's], which is delaying submission of the Form C's. Tony Gee doing all temporary works design on the project, may not have sufficient resources to meet programme.
4.	Progress	No section	There is no section for Stray Current progress. They could identify progress with soil resistivity testing and the resulting report. They could identify that they had submitted a simulation study report based on pessimistic assumptions and that they are now updating that with actual data to reflect a closer view of the real tram network.
4.	Progress	No section	There is no section for Systems Assurance. They could have stated in that section that they have progressed a base lining and rationalisation of the Hazard Log and that there was still some work to be done. They could also state that they are producing a System Safety Assurance Plan
4	Progress	No section	Design - I would have expected to see some form of progress in relation to integration of a competent design process (e.g. How are they ensuring that the Haymarket Viaduct earthing & bonding design issue is being addressed elsewhere). There should be some indication as to their progress in reviewing IFC drawings so that they can be constructed.
4.1.1.1	Production of Design	No IFC packages were received in this period.	Not correct. Victoria Dock Entrance Bridge IFC on 12/11
4.1.1.1	Production of Design	BSC design is ongoing.	Programme required and visibility of impact on approvals.
4.1.1.2	Approvals and consents	Parties (BSC, CEC, Tie) agreed.... Infraco proposal to Plane and overlay is not feasible.	My understanding is this can be achieved in some areas but further investigation is required. SDS stated they were not willing to act on the report provided. ( cross check With BB) No mention of SEPA issue above or update on SW consents approvals particularly at Depot
4.1.1.3	Issues and Concerns	Meeting held with tie on 23 Oct & 13 Nov. 08 to close out the issues .....	Meeting arranged 26/11/08 to progress close-out of issues, but BSC/SDS did not turn up.

### Comments on Infraco Period 9 Report

Paragraph	Section Name	BSC Comments	tie Comments
4.1.1.3	Issues and Concerns	Meeting held with tie on 23 Oct & 13 Nov. 08 to close out the issues .....	<p>There has been no discussion/consultation on cancelling these meetings and setting up alternative forums. We would have expected to be consulted on any change to this forum. BSC did not appear for the meeting on 27-11-08.</p> <p>BSC need to propose a practical and effective alternative. BSC also need to take responsibility for managing design and show commitment to issue resolution instead of waging a war of correspondence.</p>
4.1.1.3	Issues and Concerns	Meeting held with tie on 23 Oct & 13 Nov. 08 to close out the issues .....	A number of attempts were made to close out the Parapet issue at Tower Place Bridge, however to date, despite several requests, BSC/SDS have not provided the additional information requested by tie to support their claim for a change.
4.1.1.3	Issues and Concerns	Technical issues remain unresolved	<p>Airport Tramstop and Kiosk: Final clarification on design scope outside LOD to be issued 5/12/08.</p> <p>New Ingliston Limited (NIL) tie instruction to be issued 2/12/08.</p>
4.1.1.3	Issues and Concerns	Pedestrian Crossing Standards	BSC needs to describe the work to be done and justify any difference between that and the original scope. Without visibility of their design completion programme and activities tie cannot assess whether they are entitled to a change.
4.1.1.3	Issues and Concerns	Scottish Water consent	BSC has not demonstrated what actions they are taking to achieve closure and has not responded to our letter pointing out their duties in relation to that item. tie continues to support SDS in trying to get these consents but we need to see more from BSC so we can work together effectively to get a good result.
4.1.1.3	Issues and Concerns	Ocean Terminal / Forth Ports	tie does need to conclude arrangements with Forth Ports and it is not helpful that Forth Ports are regularly adding new requirements to the design. As a result the scope is not fixed. On the other hand we need SDS to produce drawings for the Forth Ports Agreement that will allow us to close down the issues.



### Comments on Infraco Period 9 Report

Paragraph	Section Name	BSC Comments	tie Comments
4.1.1.3	Issues and Concerns	Airport Tram Stop & Kiosk	Primarily held up by commercial issues. tie continues to press for resolution of outstanding issues. Lack of design does not help us resolve utilities issues that will get MUDFA off the site in time for BSC.
4.1.1.3	Issues and Concerns	New Ingliston Ltd	Draft notice of change produced – under review – aim to issue next week.
4.1.1.3	Issues and Concerns	Demarcation	I am pressing CEC for a decision – I was promised sight of a letter this week but that has not been delivered.
4.1.2.1	EMC	Immunisation test in Nottingham took place in mid November and results are currently under review	Progress section 4.1.2.1 EMC is light on deliverables. They state that a trial was done at Nottingham but not that tests were also carried out in Edinburgh to establish conductivity on NR rails and soil resistivity tests in the NR zone. Additionally they don't mention that they have delivered the EMC Management Plan and EMC Strategy for NR Assets. They could also state that they have conducted a Preliminary Hazard Analysis in relation to NR Immunisation and that a report was pending.
4.1.2.2	OLE – approvals & consents	Proposed combined OLE/lighting poles – formal submission for acceptance to be made week ending 28/11	(a) don't think this has arrived yet (b) this is not in line with the Prior Approval process as discussed at the OLE workshop. To be taken up further at further OLE workshop on 3/12
4.1.4	System Assurance	Statement of process for assurance	Statement very general – appears fine as far as it goes but much more specific proposals needed
4.1.6	Value Engineering – Civil & Building Works	Instructions from tie to progress re-assessment of other design to cost-Value-Engineering opportunities have been actioned and estimate / programme information will be provided as soon as possible.	tie have previously requested that tie PM's be included in VE exercises, but this has not happened to date. When are estimates / programmes going to be provided?
4.2.1.3	Long lead Procurement Management	Programme changes at Edinburgh Park Bridge and the need to co-ordinate revised delivery dates and requirements have prevented us issuing and order for the supply of the precast beams to Edinburgh Park.	Clarify statement. What is status of order for beams for Edinburgh Park Bridge & Carrick Knowe bridge? Edinburgh Park & Carrick Knowe delayed because of delay in getting Package Contractor onboard. No mention of Depot structural steelwork procurement at Depot. Is this in manufacture or are design queries still outstanding.
4.3.2	Construction		No update on section 5C, 6 or 7. As discussed BSC have key issues at A8 Underpass Phase 1 which is due to commence 1/12/08 and Section 7 where no SEPA approvals at in place.

## Comments on Infraco Period 9 Report

Paragraph	Section Name	BSC Comments	tie Comments
4.3.2	Construction		Section 6 also has excavated material available to be transported by road to Carricknowe / Balgreen. SW have agreed relaxation to exclusion zone.
4.3.2	Construction:- Edinburgh Park to South Gyle	No Comment from BSC	No reason stated as to why sub base works have stopped at the rear of office
4.3.2.1.2	Section 1B – Foot of Leith to McDonald Road – CH100 – 350		<p>Some services/ Utility issues have/ will further contribute to delays, namely Thus ducts &amp; chambers, fire hydrant covers &amp; valves. Gully drainage &amp; connections have just surfaced as an issue, the material utilised by CUS for the reinstatements they carried out does not conform to the required standard and the workmanship is very poor. Additional works to rectify the situation will be required when post embargo.</p> <p>The designs of the track ductwork and drainage have not yet been progressed to IFC status and BSC are not in a position at this time to complete the roadworks within area 1B. Additionally BSC have not progressed the testing required by SDS to confirm the road make up. This will require further works post embargo as BSC have progressed on their pricing assumption that 450 overall road make up was all that was required</p> <p>Crummock are reporting they are currently 28 days behind their works programme.</p>
4.3.2.1.5	Section 2A : Haymarket Viaduct	Revised abutment design [temporary / permanent] has been received and construction has recommenced.	Temporary works details now due w/c 01/12/08. Amended permanent works details for Pier 4 & East abutment still outstanding. BSC not progressing works in an efficient manner as they are waiting to handover to Grahams Jan 09.
4.3.2.1.5	Section 2A: Verity House	No IFC drainage drawings	WPP still being revised by BSC to obtain NR approval to start work on access road.
4.3.2.1.5	Section 2A: Haymarket – Roseburn Track Work	No IFC Drainage Drawings	It seem this is another excuse for not starting in the section in the last report they reported 2 manholes had been found which was causing the delay but this seem to have disappeared also the site clearance was complete which is not the case. I would suggest the real reason for not starting is awaiting the appointment of Grahams

### Comments on Infraco Period 9 Report

Paragraph	Section Name	BSC Comments	tie Comments
4.3.2.1.6	Section 5A: Russell Road Bridge	Currently 23 weeks behind programme .....	Works delayed by lack of Form C submission and approvals and lack of package contractor to carry out the works.
4.3.2.1.6	Section 5A: Russell Road Retaining Walls W3 & W4	Site clearance & demolition have been completed.	Site clearance commenced w/c 24/11/08, demolition is not completed. Demolitions and site clearance are not complete, Redpath McLean Building still to be demolished
4.3.2.16	Section 5A: Murrayfield Tram stop retaining wall	Demolition has been completed	<ul style="list-style-type: none"> <li>- JB Mclean 'lean to' has to be demolished, section manager has advised that this will be started 5<sup>th</sup> January, new Fire escape to be erected for this.</li> <li>- National Car Rental fuel tank is to be removed; this is due to commence early Jan09 also. We are awaiting BSC agreement that this is in their original scope of works as they have requested a change order for this.</li> <li>- The site clearance in this section commenced Monday 24<sup>th</sup> Nov. BSC has an action to assist resolve outstanding issue over demolition of extra buildings. Once site clearance is complete BSC are to set out and prove the build ability of the retaining wall for this section.</li> </ul>
4.3.2.1.6	Section 5A: Murrayfield Underpass	On hold pending resolution of the revised design for the Murrayfield Retaining Walls.	The underpass needs to be constructed before the retaining walls are tied into the structure. Underpass not started because package contractor not starting until Jan. 09. Sewer & power cable need to be diverted before structure can start.
4.3.2.1.6	Section 5A: Water of Leith Bridge	Steel fabrication ongoing.	QA audit of fabrication to be arranged.
4.3.2.1.6	Section 5A: Baird Drive	Site clearance to completed.	Tree stumps still to be removed.
4.3.2.1.7	Section 5B: Carrick Knowe Bridge		Works to the structure delayed due to lack of package contractor, insufficient BSC resources to progress the works in-house, late submission & poor quality WPP's and late submission of Form c for temporary works piling.
4.3.3	TWR (Trackwork)	No comment from BSC	A way forward needs to be agreed with BSC on the security at Leith South they have now located cabins and a security guard on site but as yet no Security Fencing Siemens view is that TIE has to arrange the erection of the Fencing
4.5	Testing, Commissioning & Start Up	No comments	Section 4.5 States that there is nothing to report in terms of Testing Commissioning and Start-up, however there must be some activity in the preparation of Validation & Verification Plans, Installation Test Plans etc. For instance they could have identified that the associated test plan/WPP for the Nottingham and Edinburgh tests were submitted.

## Comments on Infraco Period 9 Report

Paragraph	Section Name	BSC Comments	tie Comments
6	Stakeholder & third party issues (Network Rail)	No Comment from BSC	Due to BSC not having in place for the October Disruptive Possessions Form Cs & WPP for Carrick Know temporary works the works have been pushed back to Christmas. This means that in 2009 the only disruptive possessions booked at the moment which cover the 4 roads are at Christmas 2009. There are 3 nr 54 hrs disruptives in September 2009 on the E&G with 8 hr RoTR slots on the North Lines I would suggest this BSC should use these to lift in the Bridge Beams but to meet NWR planning timescales the planning for this needs to start early in the new year as NWR have a new set of planning timescales for disruptive possessions that have a high risk of effecting the operational railway..
	<b>Contract Programme</b>	Haymarket Viaduct – programme items 1139 & 498	Progress report shows East Abutment 60% complete approx, excavation for base slab only started 26/11/08. Pier 4 shown as 75% complete approx – only 75% of base slab completed to date.
		Edinburgh Park Station Bridge – programme items 13150, 13170, 13180, 13190 & 13200.	Progress report shows 40-50% approx of Piers 3, 4, 5, 6 & north abutment complete. To date only blinding placed to pier 5, 6 & north abutment.
	<b>Procurement Schedule</b>	Reinforced Earth Retaining Walls	Order still not placed with suppliers.
		Precast beams	Order still not placed with suppliers of PC beams.
		Earthworks – Section 5	Order still not placed with package contractor.
		Groundworks – Section 5	BSC proposing to use Gallagher Groundworks.
	<b>tie Instructions &amp; Value Engineering</b>	Ref. 10 – Water of Leith Bridge	Comments appear to suggest that redesign of foundation is not happening yet as BSC are waiting on SDS costs.