

"4 Infraco Default" (a)(iv) On-Street Trackform Design and Integration - Failure to obtain necessary Consents

- 1.1 Clause 19 Consents and Traffic Regulation Orders
- 1.1.1 Clause 19.3 of the Infraco Contract provides:-
 - 19.3 The Infraco shall obtain and maintain all Design Stage Consents, Construction and Maintenance Stage Consents and Temporary Traffic Regulation Orders (required after the Service Commencement Date) required for the performance and completion of the Infraco Works.
- 1.1.2 **Design Stage Consents** are defined in Schedule Part 1 as "... the Consents (in respect of Design produced by SDS Provider or Infraco Design) listed in Table A below and any further consents that the SDS Provider is responsible for obtaining under the SDS Agreement ...". Table A includes the following consent requirements in respect of trackform design (see extract below):-

Category	Туре	Approval Body
Construction	Discharge Consents to the extent related to design of the permanent works	SEPA
	Technical Approval	CEC Bridges/CEC Roads
	Building Warrant	CEC Building Standards

- 1.1.3 The CEC Roads Authority Technical Approval consents in respect of the on-street track / road details have yet to be obtained by the Infraco. The CEC letter dated 1 February 2011 (Doc01: ref. SS1.40/AR) provides a useful summary to outline the CEC position concerning the non-approval of the Infraco submissions. It is relevant to include a bullet-point list of the key points raised therein:
 - i) Page 1 paragraph 2: ".. it was the integration of this track system into the road construction which needed to be approved. A fundamental part of this integration would be the interface between the rails and the adjacent road and the compaction of materials between the rails"
 - ii) Page 1 Paragraph 4 confirmed that "... What has not been provided is clear justification where ... alternative construction details are required. In particular it is not clear why an alternative design is needed for locations with high numbers of turning buses, if this was not factored in the original design, how is it fit for purpose?"
- 1.1.4 CEC also set out the following requirements for the Infraco submissions:-

- i) Clear justification which would explain when either of the proposed enhanced designs would be required, the extents of these areas and an outline of the benefits of these designs in comparison to the track surfacing design installed on Princes Street.
- ii) Details of the failures in Princes Street and the specific reasons why each length of track is requiring remedial measures.
- iii) Details of why areas, where neither programme nor weather has been a constraint, are showing further failure.
- iv) Information relating to construction methods (compaction of materials) for each cross-section (previously requested by CEC on 15 November 2010).
- v) The Council would also request examples of where these on-street track designs have been installed elsewhere and details of their performance.
- 1.1.5 In conclusion CEC stated "As the asphalt surfaced cross section has been installed in Princes Street, with the evident defects, the Council is not able to close out this Informative or give Technical Approval to the Track design until the above concerns have been resolved to our satisfaction". That approval remains outstanding. The matters which require to be addressed are matters for which the Infraco is responsible.

1.2 Permit to commence works

- 1.2.1 The absence of third party approval / consent is also preventing the issue of a Permit to Commence Works in the on-street section(s). Section 3.4 of Schedule Part 3 "Code of Construction Practice and Code of Maintenance Practice" refers. Clause 3.4.1 provides:-
 - 3.4.1 The Infraco shall comply with tie's system for controlling access to undertake work activities, which shall require the Infraco to obtain an approved permit to commence works from tie ("Permit to Commence Works") for each Work Site and agreed scope of construction works.
- 1.2.2 In respect of specific requirements which Infraco are required to satisfy under this section of the Infraco Contract, clause 3.4.4 of Schedule Part 3 provides:-
 - 3.4.4 Each Permit to Commence Form shall identify the necessary licences, third party approvals and notifications that have been obtained / granted to enable the works to be undertaken, together with the specific control measures that require to be implemented under the Infraco's safety management system.

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[&]quot;Work Site" is defined in Schedule Part 1 as "any work site within any part of the Infraco Works"

- 1.2.3 tie's letter ref INF CORR 5133 dated 24 May 2010 (Doc04) sets out in detail tie's contemporaneous position regarding the issue of Permits to Commence Works (PTCW). That correspondence was issued following exchange of tie letter ref. INF CORR 4736 dated 8 April 2010 (Doc02) and Infraco letter ref. 25.1.201/DG/5564 dated 29 April 2010 (Doc03).
- 1.2.4 It is clear from the Contract extracts above that third party approvals are an express requirement of the PTCW process. "Third party approvals" however is not a defined term in the Infraco Contract; nor is "third party". "Approval Body" is however defined at Schedule Part 1².

"Approval Bodies" means any government agency or department, official or public statutory person, utilities, planning authorities, roads authorities, HMRI, HSE, Independent Competent Persons, BAA/EAL, Network Rail, SEPA, SNH, ORR, Historic Scotland, CAA and any other third parties who are to issue or provide Consents which may be required for the design, construction, installation, testing, commissioning, completion, opening, operation, maintenance, use or modification of the Edinburgh Tram Network;

- 1.2.S Clause 8.2 of Schedule Part 14 Part A also provides some further guidance in relation to "third party approvals". This states:-
 - 8.2 For the avoidance of doubt, this information is supplementary to information required to be produced by the Infraco in order to satisfy the approval requirements of and Consents from other third parties and Approval Bodies. These include those required for.
 - 8.2.1 CEC in its capacity as planning authority;
 - 8.2.2 CEC in its capacity as roads authority;
- 1.2.6 In this respect, tie is correct in our opinion to refuse relevant PTCW's absent the necessary third party approvals. As noted above those approvals remain outstanding.

Page 3

² See also Table A in Schedule Part 1 under Design Stage Consents. Third column refers to "Approval Body".

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Martin Foerder Project Director Date

01 February 2011

BSC

Your ref

ETN(BSC)CEC=TD&ABC#058025

9 Lochside Avenue Edinburgh Park EDINBURGH

Our ref

SS1.40/AR

EDINBURGH EH12 9DJ

Dear Martin

EDINBURGH TRAM NETWORK INFRACO CONTRACT TECHNICAL INFORMATIVE 6 TRACK DETAILS

I refer to our letter of the 15 December 2010 (SS1.40/AR), your presentation of the 2 December and subsequent letter dated the 3 December 2010 enclosing details to close the Track Form Informative.

The Council's approval of the Track Form was discussed at this meeting on the 2 December 2010 and it was acknowledged that it was the integration of this track system into the road construction which needed to be approved. A fundamental part of this integration would be the interface between the rails and the adjacent road and the compaction of materials between the rails.

A presentation was given at this meeting by Siemens and this presentation material forms part of your submission. This presentation gave an introduction to RHEDA and the track and pavement design that has been constructed in Princes Street. It also gave details of the nature of deterioration on Princes Street, proposed reasons for these defects and stated that this design is fit for purpose.

Your submission included alternative Track Designs that have been proposed for areas which have "very high wheel turning forces" and a "design enhancement" for other on-street sections. What has not been provided is clear justification where these alternative construction details are required. In particular it is not clear why an alternative design is needed for locations with high numbers of

Dave Anderson, Director, City Development

Transport, City Chambers, High Street, Edinburgh EH1 1YJ



turning buses, if this was not factored in the original design, how is it fit for purpose? What the Council would require is clear justification which would explain when either of these enhanced designs would be required, the extents of these areas and an outline of the benefits of these designs in comparison to the track surfacing design installed on Princes Street.

The general reasons given for the defects on Princes Street are related to programme pressure and adverse weather. However, what has not been provided is a correlation between the areas where failures have occurred and the specific reasons for these failures.

The Council therefore require to see details of the failures in Princes Street and the specific reasons why each length of track is requiring remedial measures.

I note that work has been carried out on Princes Street when neither programme nor weather has been a constraint and these repairs have not resolved the evident defects, with further repair work being required. The Council would also require details of why these areas are showing further failure.

Your submission states that the surfacing layers are selected from Appendix 7/1; however as the track bed and the concrete slab are fixed in your design it is only the top 173 mm which is selected from Appendix 7/1. Considering this track support, what I would consider is crucial to this track design is adequate compaction of materials around the track. Specific details of the construction methods for each cross section were requested in our letter of the 15 November 2010, these have not been provided. I still require that information.

The Council would also request examples of where these on-street track designs have been installed elsewhere and details of their performance.

As the asphalt surfaced cross section has been installed in Princes Street, with the evident defects, the Council is not able to close out this Informative or give Technical Approval to the Track design until the above concerns have been resolved to our satisfaction.

I trust that the above is in order but if you require any further information, please contact Andy Conway on

Yours sincerely

Marshall Poulton Head of Transport

Cc Steven Bell tie Itd

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For the attention of Martin Foerder - Project Director Bilfinger Berger - Siemens - CAF Consortium 9 Lochside Avenue Edinburgh Park Edinburgh EH12 9DJ Our Ref: INF CORR 4736

Date: 8 April 2010

Dear Sir,

Edinburgh Tram Project Infraco Infraco Contract – 1D On-Street Works - Haymarket

Further to our letter 4660 dated 2 April 2010, we refer to your letters dated 30 March 2010 – 25.1.201/DG/5237 and dated 31 March 2010 – 25.1.201/DG/5236. Your attention is drawn to our letter 4648 dated 1 April 2010, which will inform you of some of the contractual foundation on which we rely and we will not repeat this here. We also take cognisance of the fact that the meaning of your letter dated 31 March 2010 (reference 25.1.201/KDR/5208) is obscure. Where interface with the public and/or public safety is concerned it is essential for us to ensure that you intend to work with due expedition and in a manner which minimises the impact on the public.

In this context we take account of your letter 2 referred to in our letter 4648, in particular the asserted "process for delivering these works (in the absence of the OSSA)" you make on the second page:

"Plane off original wearing course, conduct further ground investigation and testing under instruction from tie. Obtain selection of final design from SDS under instruction from tie and agree. Receive Change Order from tie. Recommence construction progress. This process would be repeated for each working area between Haymarket Terrace and the top of Leith Walk".

In the absence of any declaration by Infraco to the contrary, we assume that you intend this statement to be a condition applying to any Method Statement submitted by you for approval or approved. Based on this statement alone, we have a sound reason for refusing to issue a Permit to Commence Works. In the case of On-street works, we would expect that you will agree, in the interests of due expedition, that any tie Change may well be the subject to an instruction issued in accordance with Clause 80.13 and pursuant to Clause 34.1. However we will issue the appropriate instruction if and when a tie Change occurs.

Notwithstanding the foregoing, you should note that pursuant to the Infraco Agreement we are not obliged to issue such a permit on the basis that you have satisfied certain conditions. We refute any assertion that we have failed in any obligation, implied or expressed, to issue a Permit to Commence Works.

Citypoint Offices, 65 Haymarket Terrace, Edinburgh, EH12 SHD

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We consider that before we issue a Permit to Commence Works you should have satisfied us that your Method Statements comply with the terms of the Infraco Contract. Pursuant to Schedule Part 14, you have submitted a method statement and risk assessment for a *Package of Work to Section 1D*". Pursuant to Clause 18, Infraco are entitled to exclusive licence to enter onto any land, worksite or area of the public road which they need to occupy solely for the purposes of executing the package. We confirm that you are able to obtain such possession for the purposes of carrying out substantial packages of work at Haymarket. Contrary to what you assert, the state of utility diversion has no bearing on our refusal to issue a Permit to Commence Work at Haymarket.

We confirm that subject to us issuing Permit(s) to Commence Work:

- subject to agreed traffic management, you could be immediately licensed to take exclusive possession between Chainage 1120 and Chainage 0000, (north side only)
- subject to agreed traffic management, we expect that you could be licensed to take exclusive possession between Chainage 1120 and Chainage 0000, (remainder of site)
- subject to agreed traffic management we expect that you could be licensed to take exclusive possession between Chainage 900 and Chainage 400 on 12 April 2010; and
- subject to agreed traffic management we expect that you could be licensed to take exclusive possession between Chainage 900 and Chainage 1120 on 4 June 2010.

Each could be regarded as a "works package" and be subject to separate method statements and permits.

We also confirm that in the event that it is necessary for us to require you to give access to third parties we will issue the appropriate instruction which will give rise to a Compensation Event.

In deciding whether and when we should issue any relevant Permit to Commence Works we will require the following Deliverables specific to each Works Package to our satisfaction:

- Complete and approved integrated construction drawings issued as IFC;
- The Residual Risk Register;
- Your Risk Assessment;
- A Method Statement/ WPP;
- Health and Safety Plan;
- · A programme, and
- Details of your resource and logistics plan and programme.

In order that you do not cause further unnecessary delay, we instruct you to proceed with providing the requisite information with due expedition. Moreover, contrary to what you assert, we have acknowledged that you are entitled to compensation for losses and delays arising from late utility diversions. We refute that we have, or are, in any way indulging in a process which could be described as "bureaucratic time wasting", on the contrary we are making attempts to agree extension of time and compensation with you pursuant to Clause 65.

To further that process in the manner agreed at the meeting held in your office pursuant to Clause 6.5, we invite Mr. Walker and Mr Flynn to meet with our Mr Bell and Mr Rush on 14 April 2010 at a time to suit Mr. Walker and Mr. Flynn. We propose that the purpose of the meeting is to agree a "modus operandi" for taking the process forward.

We attach a copy of our draft Scope for the Explanation of the application of Clause 65 to Onstreet Works which was forwarded to you by email on 2 April 2010.

Yours faithfully,

W Steven Bell

Project Director - Edinburgh Tram

Explanation of the application of Clause 65 to On-street Works

The process will address three sets of circumstances:

- 1. Design
- 2. Programme
- 3. Compensation

Design - Supervised by Blair Anderson MICE

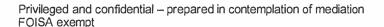
- Inter-disciplinary checks ("IDC") will be completed by BSC prior to the issue of Approved for Construction Drawings.
- Issued Approved for Construction Drawings will be issued on a phased basis within a period of not exceeding 10 weeks from now.
- Design of Trackform will meet the Employer's Requirements.

Programme - Supervised by Blair Anderson in conjunction with Acutus

- Prepare a simple programme on a "clean sheet" basis within 2 weeks.
- Remove restraint links between activities.
- Base on the above design programme.
- Base on current best estimates for completion of Utility Diversions.
- Phase in manageable lengths of construction (increasing the number of phases).
- The simple programme then to be reviewed and adjusted for:
 - > Acceleration measures instructed or agreed to by tie.
 - > If desirable rephrasing to avoid piecemeal completion of track which makes co-ordination of overhead cabling difficult.
 - > Best value considerations.

Compensation - Supervised by Gordon Harris & Partners.

- Compensation will be considered under six broad headings in parallel with finalising the design:
 - Adjustment for changes in quantity or specification
 - Adjustment for changes in working method and sequence
 - Adjustment for programme time
 - > Adjustment to traffic management
 - > Adjustment for current costs (inflation/deflation)
 - > Loss and expense.





Our ref: 25.1.201/DG/5564

Your ref: INF CORR 4736/ 4660/ 4745/ 4746

29 April 2010

tie limited CityPoint 65 Haymarket Terrace Edinburgh EH12 5HD

Date Sent	Bilfinger Berger Civil EDI
File Number	The state of the s
Action	
Distribution	CONTROL CONTRO

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For the attention of Steven Bell - Project Tram Director

Dear Sirs.

Infraco Contract
1D On Street Works - Haymarket

We refer to your letters dated 2 April 2010 (Ref INF CORR 4660), 8 April 2010 (Ref INF CORR 4736), 9 April 2010 (Ref INF CORR 4745) and 9 April 2010 (Ref INF CORR 4746/DB), all of which pertain in some way to the On Street Works at Haymarket. These letters, in particular the letter of 8 April 2010, refer to a number of different letters and correspondence passing between tie and Infraco.

We do not intend to reply on a point by point basis to the many contractual issues raised in these letters, the majority of which have been discussed between us at length in previous correspondence. We are separately preparing a response to your letter (Ref INF CORR 4648) dated 1 April 2010 which will be forwarded in due course.

In particular however, we find your letter of 8 April, confused, misleading and contractually incorrect. It is worth summarising our position before dealing in any further detail with the issues raised in your various letters.

Summary of Infraco's Position in relation to On Street Works at Haymarket

Infraco has made it clear that it is prepared to carry out works at Haymarket and can do so now (notwithstanding ongoing utility diversion works), subject to tie issuing the required Permits to Commence Work.

Tie has not issued the required Permit or Permits to Commence Work, citing reasons that have no basis in the Infraco Contract. We deal with this in further detail below but in short, tie appears to be attempting to innovate on the Infraco Contract requirements by requesting additional 'Deliverables' for Works Packages which are not required by the Contract. The fact that tie has publicly stated that the current traffic management systems will be removed upon conclusion of the utility diversion works in this area, leads us to assume that this decision has already been made and that tie are retrospectively trying to find reasons to deny Infraco access.

We now understand that it is expected that Clancy Docwra could complete the utility diversion works at Haymarket on Friday 30 April 2010 and that tie intends thereafter to remove the traffic management currently in place at Haymarket.

If tie does so, this will further delay the already extremely delayed Infraco Works. This would clearly not be in the bests interests of the ETN Project and would be contrary to tie's obligations pursuant to Clause 6 of the Infraco Contract to work in mutual co-operation with Infraco to carry out and complete the Infraco Works.

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Letter of 8 April 2010

We find much of the first page of this letter difficult to understand. You appear to be stating that a reason for refusing to issue a Permit to Commence Works is because Infraco have placed a condition on any Method Statement submitted for approval, citing as this 'condition', a statement made in a letter issued by Infraco on 3 March 2010 (Ref RJW/RJ03032010) which related to the carrying out of On Street Works.

For the avoidance of any doubt, this is not a 'condition' which Infraco seeks to apply to any Method Statement but was rather an explanation of the way in which the Infraco Contract operates if and to the extent that conditions are found to be different to those anticipated, when On Street Works commence. There is no sound reason for refusing to issue a Permit to Commence Works at Haymarket as a result of this statement.

Beyond this, tie appears not to understand the basis upon which, and the process by which Permits to Commence are applied for by Infraco, and are to be issued by tie. In this regard we make reference to our letter of 22 April 2010 (Ref 25.1.201/BDo/5499). To summarise Infraco's position:

- Only Method Statements with a category A3 risk rating are subject to the reviewing process set out in Schedule Part 14.
- Work Package Plan 0135 for Haymarket to Shandwick Place has been, by agreement, categorised as A1 low risk and is not therefore subject to the review process. Schedule Part 14 does not apply.
- Clause 3.3.5 of Schedule Part 3 (Code of Construction Practice and Code of Maintenance Practice) requires only that one copy of the risk assessment and Method Statement be issued to tie for information prior to works commencing.
- Accordingly, it is contractually incorrect to state that Infraco has not satisfied certain conditions in so far as it has not satisfied tie that the Method Statements comply with the terms of the Infraco Contract.
- Each Permit to Commence Works should identify the necessary licences, third party approvals and notifications that have been obtained / granted to enable the works to be undertaken, together with the specific control measures that require to be implemented under the Infraco's safety management system. Parties have jointly prepared a form that incorporates these requirements. This has been completed with all necessary information provided for the works from Haymarket to Shandwick Place, this being the agreed work site/scope of works.
- At the bottom of page 2 of your letter, you list a number of 'Deliverables' which you state you will require specific to each of the separate 'Works Packages' you are now proposing. Whilst you have much if not all of this information already, it is not a requirement and hence is not a Deliverable which requires to be submitted before the Permit to Commence Works can be issued by tie.
- We would repeat the statements previously made that to date, tie has failed to provide a single valid reason (which has a basis in the Infraco Contract), for failing to issue the Permit to Commence Works at Haymarket to Shandwick Place.



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Beyond this, your letter deals with 2 matters which can be summarised as follows:

1. That rather than permitting us access to the area of Section 1D of the works from Haymarket to Shandwick Place as requested (in our Permit to Commence Works which itself reflects and agreement reached between us that this would be the work site), we should instead submit a series of mini 'works packages' in relation to which we will require to resubmit new / separate Permits to Commence Works. For each of these individual works packages, we will be required to reproduce the list of Deliverables contained at the bottom of page 2 of your letter 'to our (tie's) satisfaction'.

Our response to this is relatively simple. Although it would be a change to our agreed work site (the agreement reached in accordance with the CoCP), to carry out the works in the sections identified by the first set of bullet points on the second page of your letter, we could do so and all that would be required would be a paper exercise. This paper exercise would reproduce the information already produced to you for WPP 0135 – no new information is required. We are happy to sit down with you and discuss this process but would respond in particular to the bullet points in your letter as follows:

- The traffic management plan is already agreed for Chainage 1120 to Chainage 0000 (north side only). The Permit to Commence Work can be issued now subject to the minor paperwork exercise required. We note however that Clancy Docwra are still in this area.
- Thank you for the clarification in your letter of 9 April 2010 (INF CORR 4745) that what is meant is that these works between Chainage 1120 and Chainage 0000 (remainder of site) could be carried out immediately following completion of the north side works in this location. Again agreed traffic management is already in place and, were utilities works complete and the Permit to Commence Works issued, then these works could be carried out.
- For Chainage 900 to Chainage 400, the same points apply in relation to traffic management and ability of tie to issue the Permit to Commence Works. We note however that as at the date of this letter, Clancy Docwra are still present in this location carrying out utilities diversion works.
- Again in relation to Chainage 900 to Chainage 1120, the same points apply in relation to traffic management and ability of tie to issue the Permit to Commence Works. We would note that the date you quote of 4 June 2010 (clearly the anticipated date of completion of the utilities diversion works) would now appear to have slipped to 22 June 2010 (INF CORR 4770/FMcF) – a slip of almost 3 weeks.

Clearly therefore the ongoing utility works is relevant to our ability to work in the section of the works from Haymarket to Shandwick Place.

Given however that we have provided you with all the necessary information as required by the Infraco Contract, and traffic management is agreed and in place, we would urge you now to issue the Permit to Commence Works either for the whole section of Haymarket to Shandwick Place as per WPP 0135, or these smaller sections of "works packages" which would require only a paperwork reorganisation exercise utilising the information already provided to you. We are available at any time to discuss this.

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2. The second main issue that we take from your letter is that although we have somehow caused this delay (note the comment at the top of page 3), tie acknowledges that we are entitled to compensation for losses and delays arising from late utility diversions. To this end, it is proposed that some form of modified Clause 65 procedure will be sufficient to compensate Infraco in this regard.

You fail to acknowledge however that one of the Pricing Assumptions upon which the Contract Price was arrived at, is that all MUDFA and utilities works would be complete prior to commencement of our Works. To the extent that this has not happened (a fact which is beyond doubt) a Notified Departure has occurred. This will require to be dealt with through the contractual mechanism.

We have made it clear that we do not agree with your interpretation of the operation of Clause 80.13 or Clause 34.1. This is a matter however that remains within tie's operation and control. Where you disagree that a matter is a Notified Departure, or disagree with the Estimate in relation thereto, tie can refer the matter to DRP and issue the necessary Change Order under Clause 80.15. We urge you to apply this contractual procedure in accordance with the Contract. We see no need or any requirement to innovate on the contract and therefore no need to agree a 'modus operandi' for the modified Clause 65 procedure proposed.

We acknowledge of course the wording of Clause 65 and can and will comply with that wording as necessary. We will write to you separately in relation to the application of Clause 65 to On-street Works.

Letter of 2 April 2010

The intention of our letter of 31 March 2010 (Ref 25.1.201/DG/5236) was clear; we set out a proposal to proceed with works at Haymarket notwithstanding tie's previous refusals to issue Permits to Commence (on grounds not supported by the Infraco Contract) and notwithstanding the fact that utilities diversion works are still ongoing. Whilst we did so under reservation of our rights under the Infraco Contract, our intention was to make progress and mitigate costs when a Compensation Event and Notified Departure had clearly occurred.

Clearly Bilfinger Berger would be carrying these works out as a member of the Infraco Consortium, in execution of the Infraco's contractual obligations. We have dealt with our obligation to submit the necessary information required for the Permit to Commence Works above, tie is in possession of all relevant and necessary paperwork.

In terms of programme revision 3, we have submitted a programme and whether or not you agree with it, is a separate matter. Were all works to be held up pending resolution of the agreed programme, the Infraco Works would grind to a complete halt.

We note that as at the date of this letter, the traffic management has not been removed (contrary to your statement that it would be removed by 17 April 2010). We urge you to comply with your contractual obligation to grant us an exclusive licence to this area of the site and to keep the traffic management in place.

Letter of 9 April (INF CORR 4746/DB)

This letter refers to three Permits to Commence Works (at Shandwick Place, [BSC-PCW-0123 and 0124] and Haymarket [BSC-PCW-0103) which were submitted to you by Document Transmittal 3895 on 1 April 2010. In responding to this letter, you make reference to the letter of 2 April (4660) responded to above, and to you letter of 11 March 2010 (Ref INF CORR 4389).

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In that letter, tie's position was that the Permit to Commence Works could not be issued because of a failure to complete the IDC process for the relevant area, and because Infraco had failed to execute the sub contract for their supplier.

We have already dealt with these statements – neither of these matters are grounds upon which tie can refuse to issue the necessary Permits to Commence Works (see our letters of [25.1.201/DG/5009] and [25.1.201/DG/5142]). tie has yet to point to a valid reason for refusing to issue the Permits to Commence Works in the Haymarket to Shandwick Place agreed work site.

Conclusion

In this letter we have responded to a number of letters issued by tie all relating to the requirement that Infraco be given exclusive access to carry out On Street Works at Haymarket to Shandwick Place. Infraco's position is that it is in position to commence such works as are available in this location now, and that it has been in this position since 9 March 2010. All that is preventing works from commencing is tie's refusal to issue the necessary Permit(s) to Commence Work, whether that be for the agreed work site or smaller 'works packages' as tie refers to them. We consider that all delay here has been of tie's making, no valid reasons having been given for failure to issue the Permits to Commence Works. This has been notified as a Compensation Event.

Nevertheless, and given the very small window now available to parties for resolution of this issue (before traffic management is removed upon completion of the utilities diversion works), we would propose a meeting between Infraco and tie to take place as soon as possible. We would propose that this meeting address the works that can be carried out now and that the necessary Permits to Commence Works are issued without any further delay. This would clearly be in the best interests of the ETN Project. Please confirm your agreement to this meeting by return in order that we can make the necessary arrangements.

Yours faithfully,

M Foerder Project Director

Bilfinger Berger Siemens CAF Consortium

cc: David Gough Kevin Russell

Associated correspondence referred to but not enclosed :

tie letterref INF CORR 4648 dated 1 April 2010 Infraco letter ref RJW/RJ03032010 dated 3 March 2010 Infraco letter ref 25.1.201/BDo/5499 dated 22 April 2010 Infraco letter ref 25.1.201/DG/5236 dated 31 March 2010 tie letter ref CORR/4770/FMcF dated 20 April 2010 tie letter ref CORR 4389 dated 11 March 2010 Infraco letter 25.1.201/DG/5009 dated 12 March 2010 Infraco letter 25.1.201/DG/5142 dated 19 March 2010

> Jo: 2418086 17

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For the attention of Martin Foerder - Project Director Bilfinger Berger - Siemens - CAF Consortium 9 Lochside Avenue Edinburgh Park Edinburgh EH12 9DJ Our Ref: INF CORR 5133

Date: 24 May 2010

Dear Sir,

Edinburgh Tram Network – Infraço Contract Permit to Start Works

We refer to your letter dated 29 April 2010 (reference: 25.1.201/DG/5564) and note that you are unable to understand our letter dated 8 April 2010 (reference: INF CORR 4736). We confirm that we stand by the contents of that letter as being correctly based on the terms and conditions of the Infraco Contract and being a true representation of the facts they refer to. We firmly refute any suggestion that we are making changes to the terms and conditions of the Infraco Contract. All of what we have asked for or instructed is reasonable and your compliance would not place you in breach of any contract terms.

With reference to the condition in your letter 4648, dated 1 April 2010, it will be common ground that unforeseen ground conditions and physical conditions may arise which will require instructions from tie. The statement in your letter 4648 which we referred to as a condition, irrespective of how you describe it, is clearly at odds with the actions required of you by the Infraco Contract. We cannot therefore de facto accept your 'condition' by issuing a Permit to Commence Works.

We refer you to the terms of Clause 28, in particular Clauses 28.3, 28.4 and 28.7, which clearly set out the procedures to be followed for the appointment of Key Sub-Contractors and which parts of the Infraco Works you may sub-contract. Whilst you may believe it is clear that "Bilfinger Berger would be carrying out these works as a member of the Infraco Consortium", this does not tell us which Bilfinger Berger entity would be carrying out the works and on what basis, nor does it comply with the requirements of Clause 28 or provision 1 of Schedule Part 38. In principle, we have no objection to Bilfinger Berger (UK) Limited being appointed as a Key Sub-Contractor to the Infraco Contract provided that you comply with the provisions of Clause 28.

We would note that in excess of 40 Business Days has elapsed since we asked for you to comply.

Compliance should not cause you any inconvenience nor would it place you in breach of any term of the Infraco Contract. The delay is solely caused by your refusal to comply with reasonable instructions and requests for further information. Such behaviour is unreasonable and in breach of your general obligations under the Infraco Contract. Other than observing that requiring you to adopt your sequence of working into "mini-packages" would not have caused you to be in breach of any Infraco Contract term we therefore make no further comment on this point.

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For these reasons and in the absence of a fully integrated and assured design, we are unable to issue a Permit to Commence Work on any section of work which can be described as being "Onstreet".

Responses

Permit to Commence Works

- 1. We deny that we are "attempting to innovate on the Infraco Contract requirements" for any issue, including those applying to the issuing of a Permit to Commence Works. There is no express list of requirements which, if you met, would automatically entitle you to such permits. You may be assuming, wrongly, that all you have to do is issue a "Permit to Commence Works Form" pursuant to Clause 3.4.4 of Schedule Part 3 for us to issue a "Permit to Commence Work". Not only could this amount to "self-certification" it also ignores the terms of Clause 3.4.1 of Schedule Part 3 which clearly supports our view that it would be gratuitous for us to issue a Permit to Commence Works for anything other than work for which we are in agreement as to its scope.
- 2. Essential to agreement of the work scope is that we are entitled and indeed must be satisfied that the IFC Drawings are accompanied by suitable Design Assurance Statements and that your design represents best value and is capable of supporting adherence to the programme; and that it complies with the Safety Verification Scheme and will be acceptable to the Independent Competent Person. In explanation, Clauses 10.3 and 10.9 confer the right on us to view and review any Deliverable at any reasonable time and the obligation on you to amend that Deliverable.
- 3. We instructed you on the 8 April 2010 to provide the following items in order that we may consider issuing you with the Permit to Commence Work:
- Complete and approved integrated construction drawings issued as IFC;
- The Residual Risk Register;
- Your Risk assessment;
- A Method Statement/WPP;
- · Health & Safety Plan;
- · A programme; and
- Details of your resource and logistics plan and programme.
- 4. Providing this information would not place you in breach of any term of the Infraco Contract and all of it should be reasonably available if you have complied with your obligations to manage the Infraco Works in the manner expected by Clause 7.2 of the Infraco Contract.
- 5. Insofar as this information may be regarded as "further information", you are obliged to submit it in accordance with Clause 5.1 of Part A of Schedule Part 14. Moreover, in so far as we have omitted to exercise our rights for any past approval of a Permit to Commence Works, pursuant to Clause 109 of the Infraco Contract, we have not waived our rights to exercise them later.

6. Your purported increase in the cost of the works which you carried out in Princes Street (480%) and the disruption caused to public amenity is sufficient reason for us to reconsider the parameters we applied to the Permit to Commence Works for that Work Package and to enforce the contractual commitments.

Trackform - Design Assurance Statements

- 7. As yet, some two years into the Contract, and despite numerous review meetings and exchanges in correspondence, you are still not in a position to issue an approved integrated set of construction drawings for the trackslab and roads. Nor can you provide the necessary Design Assurance Statements, or even give any assurance that the design has been completed to enable you to authorise construction at little or no risk.
- 8. To accommodate the manner in which you have sought to manage this issue, such Design Assurance Statements would include input from all relevant designers, including SDS or Siemens, such assurance should include warranty from any sub-contracted design (for example BAM for track design) and a licence from the Intellectual Property Owner for "Rheda City" (if part of the design solution) in favour of tie (in accordance with Clause 102.2.2 of the Infraco Contract). All should be confirmed by Infraco in an integrated consolidated solution, including a register of residual risks and how they are expected to be controlled. You may refer to Clause 2.8.2 of Part C of Schedule Part 14 for a detailed list of the information which is subject to review. The list given in our letter dated 8 April 2010 provides a summary for you.
- 9. We do confirm once again that the current iteration of the design solution for trackslab and its foundation is not acceptable to us. In separate conversations with SDS and yourselves we understand that it is common ground that this proposal does not represent a "best value" solution. Moreover, as was confirmed by our recent meeting with SDS Provider, with your representative Mr. Kitzman in attendance, you have been making very little progress towards finalising a design solution which is consistent with your proposal to use Rheda City C as a trackbed. We are unable to deduce what is preventing you from finalising the design and trust that you will be bringing forward your proposals quickly for Section 1D.

Your Contractual Arguments

- 10. We believe that the position the project is in is a product of the way you have chosen to perform your duties and obligations and the interpretation you have put on certain key contractual terms appertaining to design development responsibilities Clause 80 and Schedule Part 4 in particular. To support your position it has been necessary for you to repudiate your overriding general and specific obligations to proceed with due expedition in a manner which inter alia results in best value for tie (and by extension the eventual best value in terms of whole life costs for the ETN owner). Your stance defies commercial sense and requires you to reject the clear and conventional terms of Clause 34.1. (We attach hereto a Paper Apart which inter alia explains the meaning of Clause 80.13, Clause 34.1 and the application of Schedule Part 4).
- 11. The manner in which you have acted indicates that you have sought to concentrate on extracting additional payment by offering explanations of Schedule Part 4 which are convenient to you at the time. For example, in explaining your assertions on design of the track you have referred only to Schedule Part 4, paragraph 3.6.1 (b) and not (c) which in fact produces "the finished earthworks levels for construction". Your ambiguous approach to Schedule Part 4 is also demonstrated by your assertions in the Adjudications about the meaning of Pricing Assumption 1.

12. During the adjudication hearing for Russell Road Retaining Wall 4 (December 2009), you asserted that you had only priced for BDDI and that anything not represented on the BDDI was a Notified Departure. Indeed your legal representative's view was that the exclusionary drafting of Pricing Assumption 1 did not allow for any development and completion of the design. You shifted your view by the hearing for Section 7 Drainage (May 2010) to argue that "of course" there was a qualitative allowance for development and completion of design, that you had reasonably allowed for that in such cases and that there needed to be a materiality test applied to Pricing Assumption 1.

Method Statements

- 13. You refer to and make certain allegations about Method Statements which appear to be predicated on Schedule Part 3, clause 3.2.2 meaning that only method statements with a category A3 risk rating are subject to the reviewing process set out in Schedule Part 14. We do not agree with this interpretation. These provisions require that a 4 week look-ahead schedule be provided to tie identifying relevant method statements and risk assessments in respect of each scope. tie will identify from this which risk assessments and method statements require to be provided by Infraco based on the categorisation of method statements. This allows tie to request method statements and risk assessments in other categories should we believe that such categorisation is wrong or to confirm that adequate control measures are in place to justify a lower categorisation. We have not been provided with this look-ahead schedule and so are unable to confirm which risk assessments and method statements we require to review.
- 14. Additionally, though you have submitted a number of method statements associated with Haymarket, these have not been categorised according to Schedule Part 3, Clause 3 and therefore any categorisation of such method statements has not been agreed by tie. We note your assertion that Works Package Plan 0135 has been agreed as Category A1 risk rating. This is not the case and we sent you a Record of Review in respect of this document on 26 January 2010. This had a number of mandatory requirements to be completed. No response has been received from you.

Design management & design not compatible with Programme

- 15. Another consequence of your approach to design production is that you have placed yourself in a position where you are expressing an inability to programme the Works to complete within the Planned Completion Dates. The manner in which you have acted has denied us the opportunity to properly consider the impact of your proposals on programme as well as price. (We attach a simple programme which illustrates how the On-street Works could be programmed to be completed, with mitigation measures within the Planned Completion Dates).
- 16. Your actions are clearly not compliant with your obligation to progress the Infraco works with due expedition and in a timely and efficient manner without delay, to achieve timeous delivery and completion of the Infraco Works (Clause 60.1). Nor does it reflect compliance with Clause 60.9 whereby you are required to "take all reasonable steps to mitigate the effects of any delay to the progress of the Infraco works". Given their true meaning these requirements place emphasis on the need to progress the Infraco Works in a manner which achieves the sufficiently earliest dates for completion.
- 17. It is not only completion of the On-street works which are affected by the manner in which you have acted. You now assert that the design you have developed for the various sections of Retaining Walls between Russell Road and Baird Drive requires such longer construction

period that it would have, in any event, caused the Planned Completion Dates to be substantially delayed. Clearly you have not taken account of the requirement to develop design solutions and validate these sufficiently early to achieve the Planned Completion Dates.

18. You have also degraded the responsibility the SDS Provider owes to us – their representative recently refuting responsibility for design of the track under explanation that the manner in which you have managed and are managing the design (to the extent that you have) has rendered them "not the designer – only the design provider". As we have stated many times previously, you have clear contractual obligations in relation to the completion of the SDS Services in accordance with the SDS Agreement, the management of SDS, and the delivery of a competent and contractually satisfactory design. You are wholly liable for the performance of the SDS Services and design production and you have reaffirmed this on several occasions.

Conclusion

- 19. It is now some 40 Business Days since we gave you the instruction to provide us with the necessary Deliverables in order that we may issue a Permit to Commence Works in accordance with the Infraco Contract. Your letter 5564 dated 29 April 2010 is a clear declaration that you were not (at that time) agreeing to comply with our instruction. Your continued failure to provide the Deliverables asked for by us on 8 April 1010 is a clear confirmation that you have persisted with that behaviour.
- 19 This behaviour causes a material and adverse effect on the completion of the Infraco Works and moreover prevents tie from enjoying the essential benefits of Design Assurance Statements, and licences to certain key Intellectual Property Rights.

By this letter, we also give notice that, whilst we will comply with any decision reached by an Adjudicator, we will seek to have decisions which are based on a flawed interpretation of Schedule Part 4 overturned by the Courts.

This letter does not respond to all of the issues raised in your letter, it cannot be taken to imply that we accept what you assert in respect of any issues not responded to herein.

Yours faithfully,



Steven Bell Project Director - Edinburgh Tram

Richard Walker, Chairman, BSC Consortium
Michael Flynn, BSC Consortium
Antonio Campos, BSC Consortium
Richard Jeffrey, Chief Executive, tie Limited

PAPER APART - EXPLANATION OF CLAUSES 34.1 AND 80.13

tie have difficulty in seeing Infraco's direction of thinking, and do not believe they have explained why they should be excused from the conditions of the Infraco Contract. Moreover tie hold to the view that Infraco's behaviour has been "delinquent" as, in applying their averred meaning of Clauses 80.13 and 34.1. They have failed in their duties and obligations under the Infraco Contract.

Despite what Infraco say in the penultimate paragraph of their letter dated 6 November 2008 they make it clear that they do not agree with the interpretation of Clauses 80.13 and 34.1 of the Infraco Contract as asserted by tie in their responses to Infraco.

The interpretation tie will rely on is set out in this Paper Apart.

Clause 34.1

Clause 34.1 states that:

"The Infraco shall construct and complete the Infraco Works in strict accordance with this Agreement and shall comply with and adhere strictly to tie and tie's Representative's instructions on any matter connected therewith (whether mentioned in this Agreement or not) provided that such instructions are given in accordance with the terms of this Agreement and will not cause Infraco to be in breach of this Agreement."

Accordingly, we are entitled to issue instructions to Infraco, and Infraco are obliged to comply with those instructions, provided that they do not conflict with Infraco's obligations under the Infraco Contract.

Where there is a dispute or difference between us as to whether the work which is the subject matter of an instruction issued pursuant to clause 34.1 is a Notified Departure, work should progress in the interim until that dispute or difference is resolved.

In the event that it eventually transpires that the work in question is properly a Notified Departure, or a variation to any part of the Infraco Works, then Infraco will be entitled to recover the time and cost consequences in accordance with the provisions of the contract in the usual way. Infraco's legitimate interests in this respect are safeguarded by the provisions of clause 34.3, which state:

"If in pursuance of Clause 34.1...tie's Representative shall issue instructions which involve the Infraco in delay or disrupt its arrangements or methods of construction or so as to cause the Infraco to incur cost then such instructions shall be a Compensation Event under Clause 65 (Compensation Events) except to the extent that either such instructions have been required as a consequence of the Infraco's breach of its obligations under this Agreement or such delay and/or extra cost result from the Infraco's default. If such instructions require any variation to any part of the Infraco Works, tie shall be deemed to have issued a tie Notice of Change requiring such variation, which tie Change shall be a Mandatory tie Change."

Where it transpires that the work in question was not a Notified Departure, or did not constitute a variation to the Infraco Works, no Compensation Event will have arisen: the instruction issued to Infraco constitutes an instruction to proceed with work which forms part of your contractual scopes of work, and in relation to which there is no entitlement to additional payment or an extension of time.

The contract should not be interpreted in such a way as to mean that Infraco are entitled to hold up the progress of the project in circumstances where *firstly* the only issue between the parties is who should bear the cost and time consequences of a particular item of work, but there is clarity in relation to the scope and nature of that work; and *secondly*, Infraco will be entitled to apply for recovery of the cost and time consequences in the event that it transpires that **tie** should bear those consequences.

Clause 80.13

Clause 80.13 contains the words:

"Subject to Clause 80.15, for the avoidance of doubt, the Infraco shall not commence work in respect of a tie Change until instructed through receipt of a tie Change Order unless otherwise directed by tie."

We understand Infraco's position to be that clause 80.13 should be read in such a way as to mean that tie are only entitled to direct Infraco to proceed with work in the specific circumstances set out in clause 80.15, and that they are not entitled to "otherwise direct" where an Estimate has not been referred to DRP — and by extension, that tie are not entitled to issue such a direction either where there is a dispute about the existence of a Notified Departure or Infraco have failed to produce an Estimate.

We consider this approach to be misconceived, for reasons which include the following:

- Infraco's interpretation gives no meaning to the words "unless otherwise directed by tie". It would be enough for the clause to read "subject to Clause 80.15, for the avoidance of doubt, the Infraco shall not commence work in respect of a tie Change until instructed through receipt of a tie Change Order", as the opening words of the sentence would be sufficient to enable the clause 80.15 exception to stand.
- The words "subject to clause 80.15" at the opening of the relevant paragraph should be interpreted as meaning "unless prohibited, or contradicted, by clause 80.15". Infraco's interpretation gives no meaning to these words.
- Infraco's interpretation does not make sense in the context of the words "until instructed through receipt of a tie Change Order." The 80.15 mechanism envisages tie issuing a tie Change Order in any event. It does not refer to some "lesser" instruction in the form of a "direction", and there would be no need to use the words "unless otherwise directed by tie" if all that was intended was that Infraco should proceed on the basis of tie Change Orders.
- It is clear from clause 80.13.2 that the Infraco Contract envisages situations where the Infraco has executed works at cost prior to the agreement of an Estimate and any tie Change Order on the basis of a tie instruction. That instruction clearly correlates with tie directing otherwise.

Accordingly, we consider that our entitlement to "otherwise direct" in terms of clause 80.13 arises independently of clause 80.15.

If an entitlement to a Notified Departure is established then clause 80 will be applicable, failing which the matter is governed by clause 34.

It makes no commercial sense for Infraco to be entitled to frustrate the progress of the work where the only debate is about who will bear the ultimate cost of the work in question, and there is no controversy about the nature or scope of the work.

The provisions of both clause 34.1 and 80.13 that we have referred to above both point to a clear contractual entitlement which allows us to instruct work to proceed, while still protecting Infraco's entitlement to make recovery for it in the event that it transpires that **tie** should be responsible for its cost and time consequences.

Infraco should also take account of the provisions of Clause 80.20 which <u>inter alia</u> requires them to comply with instructions and within 20 business days operate clause 80.4 or 80.5 if relevant.

Schedule Part 4

A significant area of dispute between us concerns the interpretation to be given to Pricing Assumption No. 1 (Clause 3.4.1 of Schedule Part 4). This is evident from the adjudications that have taken place and those which are currently ongoing. In meetings Infraco have requested that we set out our interpretation and we now do so in order that we can identify where common ground does exist and where we diverge.

The starting point for the interpretation of Pricing Assumption No. 1 is that the Design will not be amended in terms of design principle, shape, form and/or specification, other than amendments arising from the normal development and completion of design.

This starting point is then subject to an exclusion: applying the literal and wide interpretation which you have argued for in the adjudications between us that have involved a consideration of Pricing Assumption No. 1 would mean that all changes of design principle, shape and form and outline specification are excluded from normal design development.

That interpretation would emasculate the initial premise: the exclusionary words would, on your interpretation, make the opening words of clause 3.4.1 empty of meaning.

It cannot, objectively speaking, have been the intention of the parties that the wording should be interpreted in a way which wholly negates the initial premise that normal development and completion of design falls within Infraco's risk. The concept of normal development and completion of design requires to be given some efficacy and meaning.

Furthermore, the interpretation which Infraco have contended for would produce a result where the provisions of the Infraco Contract in relation to price are also deprived of meaning.

The Construction Works Price is a lump sum, fixed and firm price for delivering the Employer's Requirements and the Infraco Proposals. Infraco's price was therefore required to take account of all matters which are stipulated in the Employer's Requirements, and no entitlement to additional payment should flow for delivering the Employer's Requirements.

Infraco have previously relied on clause 3.5 of Schedule Part 4 in this context: that provides that the Contract Price has been fixed on the basis of <u>inter alia</u> the Base Case Assumptions: the words <u>inter alia</u> here are of crucial import.

The Contract Price is not fixed solely by reference to the Base Case Assumptions. The Construction Works Price – which is one element of the Contract Price – has also been fixed by reference to the Employer's Requirements and the Infraco Proposals. It has not been fixed solely by reference to that

part of the Infraco Works which had been incorporated in the design information drawings issued up to 25 November 2007. That would, again, in any event, make no commercial sense.

Clause 3.5 of Schedule Part 4 provides that a Notified Departure:

"will be deemed to be a Mandatory **tie** Change requiring a <u>change to the Employer's</u> <u>Reguirements...</u>" [emphasis added]

Where the BDDI fails to take account of something in the Employer's Requirements it would make little sense for the resulting design change to be deemed to require a change to the Employer's Requirements: the essence of the issue is that the design is changed to take account of the Employer's Requirements, and there is no change to the Employer's Requirements. Infraco's interpretation fails to make sense of the Clause 3.5 wording.

Taking the example of change to the BDDI which occurs in order to provide for something which is required by the Employer's Requirements (such as the provision of bat boxes at Gogarburn Bridge¹) but which was not shown on the BDDI: the Construction Works Price was fixed on the basis that it would deliver all elements of work required as specified in the Employer's Requirements.

To take a further example, the interpretation that Infraco contend for would lead to the proposition that you would be entitled to be paid for changes which you Infraco have promoted – for example, to improve buildability. Such a change would be wholly within your control and for your own benefit: no reasonable person would conclude that it was intended that you would be entitled to be paid for this type of amendment to the BBDI.

It is evident that even on Infraco's interpretation, you have accepted that there must be some departure from the literal meaning of the exclusionary words. During the course of the Wilson adjudication, your engineering expert (Mr Hunt) conceded that if a change was *minor* or "reasonable" and "comprising normal development and completion of designs", then this would not give rise to a Notified Departure.

That would therefore appear to lead to some common ground that the exclusionary words cannot be interpreted in a literal way; we accept that, equally, it cannot have been the intention of the parties that the exclusionary words should be empty of meaning.

Pricing Assumption No.1 requires to be interpreted in such a way as to give meaning to all the concepts that the parties have deployed there: both the starting point of normal development and completion of design, and the exclusion from that concept of some types of change. This should be done in such a way as to reflect the way in which the parties objectively intended to balance risk between them.

Infraco's general obligations in relation to the Infraco Works are set out at clause 7.3 of the Infraco Contract: those obligations include compliance with the Employer's Requirements, the Code of Construction Practice, Applicable Law, Good Industry Practice and so on.

The Design is to be developed in such that a way that it meets these requirements. Clause 2.1.4 of Schedule Part 14 C at page 21 states that:

"detailed design takes the preliminary design forward to achieve a series of deliverables, which are tailored to obtain consents and approvals and to provide all information required to allow the Infraco works to be constructed."

¹ Adjudication decision of John Hunter dated 16 November 2009 at p27

In arriving at the Construction Works Price, Infraco should have taken into account any amendments to the BBDI which were necessary to meet the Employer's Requirements etc and which could reasonably have been foreseen by a properly qualified and competent professional contractor experienced in design and build contracts and projects of this scope and complexity on the basis of the information that was available to them at contract formation.

Normal design development is constituted by developing the design in order to meet the Employer's Requirements, Codes of Construction Practice etc. In other words, normal design development means that which is required to be done to the BDDI in order to take it to the point of being issued for construction in line with the contractual requirements. Accordingly construing Pricing Assumption No 1 objectively in the context of the Infraco Contract an amendment does not give rise to a Notified Departure if the amendment is necessary to make the design work in a way that complies with stated (ie those stated in the contract), statutory or best practice requirements.

In any event consideration requires to be given to whether a reasonably experienced design and build contractor in Infraco's position could reasonably have foreseen the amendment on the basis of the information that it had at contract formation. If it could reasonably have been foreseen, then you ought to have taken account of it in the Construction Works Price.

Applying these tests to the above mentioned bat box example: bat boxes are necessary to comply with the Employer's Requirements. Moreover, because the necessity for the bat boxes is capable of being discerned from the Employer's Requirements, an experienced design and build contractor ought reasonably to have foreseen that they would be needed. The bat boxes would not therefore give rise to a Notified Departure.

In conclusion our interpretation of Pricing Assumption No. 1 is that Infraco are required to develop the design in terms of design principle, shape, form and/or specification from the drawings forming the BDDI to completion such as is necessary to meet the Employer's Requirements, Codes of Construction Practice etc and in doing so a Notified Departure cannot be triggered. There is in any event the question of what could reasonably have been foreseen as is mentioned above.

