

**AGREEMENT
FOR
CONTRACT PRICE**

**FOR
PHASE 1A**

Dated 20 December 2007

1.0 Introduction

1.1 This document sets out the agreement reached between BBS and tie on 20 December 2007 in respect of the price for the delivery of Phase 1A of the Edinburgh Tram Network.

1.2 Contents

Details of the Agreement

Appendix A1 – Infraco Negotiation Summary Position

Appendix A2 – Detailed Summary Of Contract Price

Appendix A3 – Value Engineering Opportunities Register

Appendix A4 – Provisional Sums

DETAILS OF THE AGREEMENT

2.0 Negotiated Price

- 2.1 The negotiated price for Phase 1a is £218,262,426. Details of the build-up to this price are set out in Appendix A.
- 2.2 The agreed Value Engineering items included in the price are set out in Appendix A3. These sums are fixed reductions save for the conditions listed in Appendix A3 under 'Key Qualifications'.
- 2.3 Provisional sums (previously normalisations) included within the price are as set out in Appendix A4. These allowances are provisional sums for the work described.
- 2.4 All other prices are fixed and firm, based on the Basis of the Price as set out below.

3.0 Basis of the Price

- 3.1 The price is based on the following:
 - 3.2 Employers Requirements Version 3.1 as qualified by the BBS Compliance Matrix contained within BBS's Email dated 12 December 2007, save for:-
 - In respect of Prior Approvals and other consents the allocation of risk and responsibility is as set out in tie (G Gilbert) email dated 12 December 2007 – Appendix B1
 - OLE – fixed termination system for all on street sections, from Haymarket to Newhaven and within Edinburgh Park and catenary system from Haymarket to Edinburgh Airport. Stepped poles will be adopted throughout.
 - Trackform will be as the RHEDA City system (types C, D and G) except where ballasted track will be adopted as agreed.
 - Maintenance requirements as discussed and as per Email of 12th December and 13th December 2007 – Appendix B2

The Parties acknowledge that the final Employer's Requirements will be subject to quality assurance of the final accepted consolidated version.

- 3.3 The BBS price for civils works includes for any impact on construction cost arising from the normal development and completion of designs based on the design intent for the scheme as represented by the design information drawings issued to BBS up to and including the design information drop on 25th November 2007. The price excludes:-

- a) Items designated as provisional in the Appendix A4.
 - b) Any material changes to the design resulting from the impact of the kinematic envelope of the CAF tram vehicle on the civils design.
 - c) Excluded items, to the extent described in 3.4 below.
- In respect of footways, full reuse of existing kerbs and flags and minimal reinstatement behind kerb lines is assumed. i.e. not wall to wall. Design must be delivered by the SDS in line with our construction delivery programme previously submitted.

For the avoidance of doubt normal development and completion of designs means the evolution of design through the stages of preliminary to construction stage and excludes changes of design principle, shape and form and outline specification

3.4 The BBS price for systems works is fixed save for:-

- a) Items designated as provisional in the Appendix A4.
- b) Any agreed material impact of the CAF tram vehicle specification on the traction power supply system as demonstrated by power simulation modelling.

3.5 *c) In the event of any conflict between the obligations in the Employer's Requirements and the SOR, design the obligations in the Employer's Requirements shall prevail*
In all other respects the BBS price is fixed

3.6 Excluded items are:-

- a) Utilities Diversions, except the £3m provisional sum included in the allowance for Picardy Place, York Place and London Road and £0.75m provisional sum for minor utilities diversion as shown in Appendix A4.
 - b) Work at St Andrew Square beyond the tram alignment works – tramstops, trackform, track bed, OHLE, road surface refurbishing and associated systems and link works.
 - c) The cost of the following within the Forth Ports Area:
 - Road surface finishes, pavings, tramstop finishes and drainage.
 - Work to Tower Place and Victoria Dock bridges.
 - Lindsay Road Retaining Wall and associated highway works.

which is extra over the scope included in BBS's price as at selection of BBS as preferred bidder.
 - d) The Cost of the Highways and Drainage works at Picardy Place, London Road and York Place that is extra over the scope included in BBS's price as at selection of BBS as preferred bidder.
 - e) Ground conditions that require works that could not be reasonably foreseen by an experienced civil engineering contractor based on the ground conditions reports provided to BBS on 20th and 27th of November and 6th December 2007. Additionally the BBS price does not include for dealing with replacement of any materials below the earthworks outline or below ground obstructions/voids, soft material or any contaminated materials.
 - f) Bernard Street additional road works as drawing provided.
 - g) Completing full footway reconstruction in Leith Walk beyond the allowance made where kerb lines are being re-sited.
- 3.7 In respect of the Depot excavation works, the price is fixed against the quantities advised to BBS by tie and on the assumption that the depot excavation will be handed over to us pumped dry with a firm sound foundation.
- 3.8 The price excludes any scope required by Third Parties which is not included within the designs issued up to and including 25th November 2007. BBS and tie will consult with Third Parties prior to contract award to agree local Codes

of Construction Practice. The price will be adjusted for any changes to constraints and additional scope which arises out of these agreements.

3.9 In respect of the highways work in Princes Street, Shandwick Place and Haymarket Junction, BBS's price is based on planing back the existing road structure to a sound base and replacement with an acceptable roads construction suitable for purpose to suit the revised road surface profile. Full depth reconstruction as the current designs in this area is not included in the Price.

3.10 The programme for delivery of Phase 1A is:-

- as represented by the programme provided by BBS dated 11th December 2007 which shows a completion of 8th August 2011 (sent to tie on 13th December 2007 – Appendix B3),
- based on the contents and assumptions set out in BBS email (Steve Sharpe) dated 13th December 2007 – Appendix B4, BBS and tie will work to deliver completion of Phase 1a by 11th Feb 2011 and
- based on the constraints and methodologies as agreed between BBS, tie, TEL and CEC.

It is agreed that all parties must work together to achieve the rationalisation of city centre constraints to achieve programme delivery. BBS have not allowed in the Price for completion beyond March 2011.

3.11 Contract terms as represented by the negotiations up to 14th Dec 2007 and for the avoidance of doubt:-

- a) Consents as set out in tie email (Geoff Gilbert) to BBS dated 12th December 2007 – Appendix B1.
- b) Third Party Agreement and Third Party obligations as set out in BBS email (M Flynn) dated 12th December 2007 – Appendix B5.
- c) The novation of SDS to Infraco as set out in the Novation Plan.
- d) The novation of Tramco to Infraco at the date of Infraco Contract Award.
- e) The terms negotiated and under negotiation prevail over statement in respect of contract issues stated in the technical information submitted by BBS.

3.12 In all other respects the conditions of the Preferred Bidder Agreement apply.

4.0 Agreement

4.1 This document is agreed as a record of the outcome of the negotiations:-

for and on behalf of tie LIMITED

on the 20th December 2007

Authorised signatory: ..

Full name: WILLIAM GALLAGHER

EXECUTED for and on behalf of BBS

on the 21st December 2007 [REDACTED]

Authorised signatory: [REDACTED]

Full name: RJ Venner Dawn Venner

Authorised signatory, [REDACTED]

[REDACTED]

Full Name RJ Venner

SIEMENS

APPENDIX A

APPENDIX B1

Geoff Gilbert

From: Geoff Gilbert
Sent: 12 December 2007 21:00
To: flynn.michael@siemens.com
Cc: Tom.Murray@bilfinger.co.uk; 'Scott.McFadzen@bilfinger.co.uk'; Richard.Walker@bilfinger.co.uk; Bob Dawson; Valerie Clementson
Subject: Draft Consents Paper GG 121207
Attachments: Draft Consents Paper GG 121207.doc

Michael

Simplified proposal from us on consents enclosed. Can we discuss tomorrow morning.

Regards

Geoff Gilbert - Project Commercial Director

TRAM Project

tie Limited

Citypoint

65 Haymarket Terrace

Edinburgh EH12 5HD

tel [REDACTED]

mob [REDACTED]

Subject : Infraco Contract Terms Clarifications

Review area : Consents

Date : 12th December 2007

1.0 Principles

2.1 The allocation of responsibility for consents in the contract will be as follows:-

- The following consents will be the responsibility of tie to obtain
 - TROs for the permanent scheme
 - TTROs to enable the scheme to be constructed, with BBS support (tie have already applied for blanket TTRO's)
 - Network Rail possessions – tie book these based on BBS programme dates (note these are already booked now wrong dates – need to be re-booked to comply with revised Infraco Contract)
- BBS provides relevant support to tie to obtain these consents.
- SDS obtain other consents required to fulfil their contract obligations. Agreed consents being obtained by SDS will be clarified in the novation agreement with a list of consents stating the status of consents at Novation. The list of consents being obtained by SDS is set out in Appendix A.
- BBS obtain all other consents, those required for construction activities and also those required to commission the system and enable it to open for passenger carrying operation. Support is provided by SDS where relevant.
- Tie will provide support to BBS to assist them in obtaining consents from third parties where they are not co-operating, provided BBS has provided the requisite information to obtain the consent and comply with the consent authorities timescales.
- Where consents are not put in place by SDS to meet the BBS programme in the Infraco Proposals then the impact on programme will be a CE, subject to certain provisos as set out later in this paper.

Tie will consider a CE where BBS are unable to obtain consents. To enable tie to assess whether it is prepared to do this SDS is to advise tie of the specific consents that it is concerned about. Tie will not agree to a blanket CE for all consents to be obtained by Infraco. Where tie agrees to a CE where BBS are unable to obtain consents this will be subject to the provisos listed below in 9 below.

2.0 Traffic Regulation Orders [TROs]

- 2.1 The TROs are to be obtained by tie with relevant technical support and programme information being provided by BBS.
- 2.2 If BBS action or inaction delays this process and to the extent that this delays completion of the scheme will not be a CE.

3.0 Temporary Traffic Regulation Orders [TTROs]

- 3.1 The TTROs are to be obtained by tie but based on the programme and technical information being provided by BBS, including traffic management proposals. This will in essence be the implementation of the On Street Construction Works Methodology which is to contain all the details necessary for tie to draw down a TTRO, including traffic management arrangements proposed by BBS.
- 3.2 If BBS action or inaction delays this process and to the extent that this delays completion of the scheme will not be a CE.

4.0 Network Rail

- 4.1 Possessions have already been booked by tie in accordance with BBS's requirements. Possessions need to be re-booked to suit revised Infraco Contract.
- 4.2 BBS (including providing design and technical information where necessary) will prepare and provide to tie all necessary paperwork to enable tie to make an application for possessions to Network Rail.
- 4.3 The responsibility for payment for these possessions will rest with tie but any changes to possessions as a result of BBS being in culpable delay will then rest with BBS.
- 4.4 Any changes to possessions as a result of Network Rail will, subject to usual tests, lead to a Compensation Event for BBS.

5.0 Discharge Consents (water)

- 5.1 There are two situations here, namely:
 - Temporary Discharge Consents
 - Permanent Discharge Consents
- 5.2 Clearly BBS has to be responsible for temporary discharge consents as these will relate to their method of working or other preliminaries items such as their site set up.
- 5.3 With regard to the permanent discharge consents BBS want these to be in place prior to novation of SDS. If this can be achieved then it would be the preferred position. BBS to check SDS programme to determine whether these are in place.
- 5.4 It is logical that BBS are responsible for obtaining the permanent discharge consents as SDS will be their consultant not tie's for this element of the work. Permanent discharge consents are required prior to commencement of the relevant drainage works. If these are refused due to SDS errors it will be a matter for BBS to resolve with SDS (subject to the SDS having obtained a permanent discharge consent and designed an agreed outfall arrangement for the Depot?). However if refused or made conditional upon works being

undertaken e.g. betterment, upgrading, new or renewal requirements for other reasons outside of BBS/SDS control then it is suggested that this becomes a **tie change**.

6.0 Building Warrants

6.1 The Building Warrants relate to compliance with technical standards and thus it is appropriate that this rests with BBS (SDS providing this to BBS other than where BBS have or are to undertake the design).

7.0 Building Fixing Agreements (for overhead line)

7.1 SDS have a responsibility to obtain Building Fixing Agreement and thus under the novation arrangement this will rest with BBS.

7.2 However **tie** has already acknowledged that obtaining a Building Fixing Agreement is not necessarily guaranteed. Heritable Proprietors (owners) have the right to object and quite probably most will. Thereafter CEC/**tie** determines whether to take the matter to the Sheriff Court.

7.3 Although Building Fixings Agreements remain as the preferred solution, SDS is also progressing the approval of poles to support the overhead line.

7.4 If Building Fixing Agreement is not obtained in a particular location, then within limits of being technically feasible and programme constraints for a new request, alternative locations for a Building Fixing are to be sought.

7.5 Where it is not technically feasible to use an alternative location for a Building Fixing or the programme constraints are insufficient for a new request, then the 'fall-back position' of the use of a pole becomes a **tie Change**.

7.6 Where there is uncertainty of likely outcome, consideration will be given to a dual approach of seeking Building Fixings and also installing foundations for a pole (as a **tie Change**).

8.0 Other consents related to design

10.1 All other consents related to design will rest with BBS.

9.0 Compensation Event where consents are not obtained or are delayed by SDS

11.1 BBS will be entitled to a CE where a consent is not provided by the authority providing the consent by the date that it is shown as required on the programme included in the Infraco Proposals provided that:

- It relates to a consent that SDS are due to obtain in accordance with their contract (excluding any additional consents that Infraco may have instructed SDS to obtain after novation)
- Infraco explains the reasons given by the consenting authority as to why they will not or have not provided consent within the agreed period (with supporting documentation)

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- Infraco advises tie immediately that it becomes aware that a consent may not be obtained by the due date. In such circumstances Infraco will afford tie the opportunity to meet with the authority providing the consent with a view to resolving the situation and Infraco attends the meeting with tie and supports tie in this respect.
- Infraco demonstrates that:-
 - Not receiving the consent has had or will have a material impact on the progress of the works
 - Infraco have taken all reasonable steps to obtain the consent
 - Infraco has provided all information necessary to obtain the consent within the timescales agreed with the authority providing the consent
 - the failure by the authority required to provide the consent has not been brought about by Infraco reprogramming the works or reprogramming or reprioritising the design programme such that a timescale agreed with the authority providing the consent cannot now be achieved
 - the authority providing the consent has not responded within the agreed timescales
 - Infraco has undertaken or plans to undertake mitigation actions in a timely manner to avoid or mitigate the impact of any delay in obtaining consent.
 - The failure in obtaining a consent is not due to a failure on the part of SDS to deliver the obligations of their contract.

CONSENTS
(Commercial In Confidence)

Railways and Aviation	HMRI	HMRI	Ongoing process with HMRI
	Network Rail	Network Rail	Ongoing negotiations with NR
	BAA/Aviation Consents	BAACAA/NATS	Ongoing negotiations with BAA
	Listed Building Consent	CEC Planning Authority	
	Prior Approval	CEC Planning Authority	
Planning	Planning Permission	CEC Planning Authority	
	Conservation Area Consent	CEC Planning Authority	Not applicable within LoD
	Scheduled Monument Consent	Scottish Executive & Historic Scotland	
	Advertisement Consent	CEC Planning Authority	Information signs "deemed consent"
Traffic Management	Road Construction Consent	CEC Roads Authority	
	Badger Licence	Scottish Natural Heritage	Environmental Team
Environment Ecological	Otter Holt/disturbance licence	Scottish Natural Heritage	
	Bat Licence	Scottish Natural Heritage	
	Appropriate Assessment	Competent Authority	
	CAR General Binding Rules	SEPA	
Drainage CAR	CAR Registration	SEPA	
	CAR License	SEPA	
	Water/ Wastewater Connection	Scottish Water	
Construction	Technical Approval	CEC Bridges/ CEC Roads	
Radio	Building Warrant	CEC Building Standards	
Design Consultation	OFCOM license	OFCOM	
Undertakings	Third Party Design Consultation		Undertakings and Agreements to Parliament and with 3rd parties that must be met
Agreements	Undertakings to Parliament	n/a	
Letter of Comfort	Agreements with 3rd Parties	n/a	
Letter of Closure	Letter of comfort	n/a	
	Letter of Closure	n/a	

APPENDIX B2

Geoff Gilbert

From: Alastair Richards - TEL
Sent: 20 December 2007 18:27
To: Geoff Gilbert
Subject: FW: Employer's Requirements - 3.03 (draft) - Maintenance Section
Attachments: ERs - Maintenance - Draft 3 03 for Informal Issue ONLY_rev20071211.pdf

From: Brauns, Bernhard [mailto:bernhard.brauns@siemens.com]
Sent: Wed 12/12/2007 7:23 PM
To: Alastair Richards - TEL
Cc: scott.mcfadzen@bilfinger.de; Brueckmann, Roland
Subject: AW: Employer's Requirements - 3.03 (draft) - Maintenance Section

Hello Alastair,

please find attached the ER with my comments (directly in the pdf document).

In case you can't see the comments, please give me a ring - I'd then have to convert the pdf into a Word document.

With best regards,
Bernhard Brauns

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Von: Alastair Richards - TEL [mailto:Alastair.Richards@tie.ltd.uk]
Gesendet: Freitag, 7. Dezember 2007 18:52
An: Brauns, Bernhard
Betreff: FW: Employer's Requirements - 3.03 (draft) - Maintenance Section
Wichtigkeit: Hoch

Bernhard,

following our meeting, I have updated the Maintenance section and attached it for your informal review. We are finalising the reissue of the consolidated ER's early next week and any feedback would be helpful.

Regards,

20/12/2007

CEC00825622_0015

Alastair

From: Glen Aitken
Sent: Fri 12/7/2007 4:51 PM
To: Alastair Richards - TEL
Subject: Employer's Requirements - 3.03 (draft) - Maintenance Section

Alastair,

As requested, Please find attached the prospective (draft) 3.03 version of the Maintenance Section of the Employer's Requirements.

Have a great weekend.
With kind regards,

Glen

Glen Aitken
Engineering Project Administrator

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tie Limited registered in Scotland No. SC230949. Registered office - City Chambers, High Street, Edinburgh, EH1 1YT.

Geoff Gilbert

From: Alastair Richards - TEL
Sent: 20 December 2007 18:23
To: Geoff Gilbert
Subject: FW: Employer's Requirements - 3.03 (draft) - Maintenance Section

As requested

From: Alastair Richards - TEL
Sent: Wed 12/12/2007 7:52 PM
To: Brauns, Bernhard
Cc: scott.mcfadzen@bilfinger.de; Brueckmann, Roland
Subject: RE: Employer's Requirements - 3.03 (draft) - Maintenance Section

Berhard,

thanks for this, I can see the comments, they seem to be mainly clustered in Table 92 Fault Corrective Requirements. Probably best if we discuss these specifically on the telephone tomorrow one by one to find a resolution. How would 10:30 your time suit you?

Regards,

Alastair

From: Brauns, Bernhard [mailto:bernhard.brauns@siemens.com]
Sent: Wed 12/12/2007 7:23 PM
To: Alastair Richards - TEL
Cc: scott.mcfadzen@bilfinger.de; Brueckmann, Roland
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With best regards,
Bernhard Brauns

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20/12/2007

CEC00825622_0017

Von: Alastair Richards - TEL [mailto:Alastair.Richards@tie.ltd.uk]
Gesendet: Freitag, 7. Dezember 2007 18:52
An: Brauns, Bernhard
Betreff: FW: Employer's Requirements - 3.03 (draft) - Maintenance Section
Wichtigkeit: Hoch

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Glen

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Engineering Project Administrator

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APPENDIX B3

CEC00825622_0021

The Gantt chart displays the timeline for various project activities across different sections and activity types from 2008 to 2011. The activities are color-coded by section: MUDFA (blue), SECTION 01 NEWHAVEN ROAD TO HAYMARKET (yellow), SECTION 02 HAYMARKET TO LEITH SANDS (orange), and Leith Sands Sub Station (green). The chart includes columns for Activity ID, Activity Name, Original Duration, Start Date, Finish Date, and a detailed timeline for each activity.

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline (2008-2011)											
					2008	2009	2010	2011	2008	2009	2010	2011	2008	2009	2010	2011
790	M & E Design Freeze	0	29-Aug-08		◆ M & E Design Freeze, 29 Aug 08											
MUDFA	MUDFA work area 1 completion	285	05-Nov-08	19-Dec-08												
	MUDFA work area 2 completion	0	31-Oct-08*													
	MUDFA work for sub section 1C	0	01-Aug-08*													
	MUDFA work for sub section 1D	0	31-Oct-08*													
	MUDFA work area 5	0	19-Dec-08*													
	MUDFA work for sub section 5B	0	05-Nov-08*													
	MUDFA work for sub section 5C	0	11-Apr-08*													
	MUDFA work area 9 completion	0	16-May-08*													
	MUDFA work area 9 completion	0	16-May-08*													
SECTION 01 NEWHAVEN ROAD TO HAYMARKET		772	28-Jan-09	09-Feb-11												
Opening Sequence B (Haymarket to Newhaven Road)					772	28-Jan-09	09-Feb-11									
01A Newhaven Road (inc.) to Foot of the Walk (exc.)					752	25-Feb-09	09-Feb-11									
					72	25-Oct-10	09-Feb-11									
E & M Installations																
A3883	Access for visual inspection for E&M wayside installation (01A)	1	28-Oct-10	29-Oct-10												
A3884	Access for E&M wayside installation (01A)	0	29-Nov-10													
A3885	Installation of poles and building fixings	22	27-Nov-10	18-Dec-10												
A3890	Overhead Catenary Line	53	19-Dec-10	09-Feb-11												
A3898	Access for visual inspection to cable pits for cable laying (01A)	0	28-Oct-10													
A3899	Access to cable pits for cable laying (01A)	0	29-Nov-10													
A3900	Install Electrical Cables	25	29-Nov-10	23-Dec-10												
A3910	Install Fibre Optic Cables	25	29-Dec-10	22-Jan-11												
A3920	Install Signalling Wayside Equipment	25	24-Dec-10	17-Jan-11												
Newhaven Road (inc.) to Ocean Terminal (exc.)		635	07-May-08	17-Jun-10												
Lindsay Road Retaining Walls (W1)																
12000	Issue Construction Drawings	176	16-May-08	28-Jan-09												
5	Wall B Contiguous Bored Piles	0	16-May-08*													
A1710	Wall A Reinforced Earth	100	17-Jun-08	04-Nov-08												
Roadworks		50	05-Nov-08	28-Jan-09												
11970	Issue Construction Drawings	291	03-Oct-08	27-Nov-09												
A1090	CH 0000 to 0300	0	03-Oct-08*													
A1100	CH 0300 to 0700	30	19-Oct-08	27-Nov-09												
A1110	CH 0700 to 0850	30	21-May-09	02-Jul-09												
Trackwork		175	03-Nov-08	23-Jul-09												
11980	Issue Construction Drawings	302	03-Oct-08	14-Dec-09												
A1000	CH 0800 to 0255	0	03-Oct-08*													
A1010	CH 0265 to 0425	25	14-Sep-09	16-Oct-09												
A1020	CH 0425 to 0475	80	21-May-09	11-Sep-09												
A1030	CH 0475 to 0800	35	03-Nov-08	05-Jan-09												
A1040	CH 0800 to 0700	40	06-Jan-09	02-Mar-09												
A1050	CH 0700 to 0850	55	03-Mar-09	20-May-09												
Newhaven Road Tramstop		40	19-Oct-09	14-Dec-09												
11990	Issue Construction Drawings	535	07-May-08	17-Jun-10												
8	Civil and Building Works	0	07-May-08*													
98	Order REC Supply	65	10-Oct-09	01-Feb-10												
A1680	Deliver and Install Shelter	0	01-Feb-10													
A4288	Access for visual inspection for E&M Tram Stop installation (01A Newhaven Road)	10	15-Mar-10	29-Mar-10												
A4289	Access for E&M Tram Stop installation (01A Newhaven Road)	0	25-Feb-10													
A4290	Install LV Power Supply and LV Power Equipment	0	29-Mar-10													
A4300	Install Telecom Equipment	25	29-Mar-10	05-May-10												
A4310	Install Station Control Equipment + AFC Equipment	20	05-May-10	03-Jun-10												
A4315	Package Test Tramstop	25	05-May-10	10-Jun-10												
Leith Sands Sub Station		5	10-Jun-10	17-Jun-10												
38	Order REC supply from Scottish Power	142	28-Sep-09	19-Apr-10												
		0	28-Sep-09													

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011																
		OND	J	F	M	A	M	J	J	S	O	N	D	J	F	M	A	M	J	A	S	O		
6	Civil Engineering and Building Works	65	19-Oct-09	01-Feb-10																				
A5480	Power Infra from Public Net available inc HV cable	0	02-Feb-10																					
A5483	Access for visual inspection for E&M Substation installation (01A Leith Sands)	0	10-Dec-09																					
A5484	Access for E&M Substation installation (01A Leith Sands)	0	02-Feb-10																					
A5490	Install LV Power Supply and LV Power Equipment	15	02-Feb-10	22-Feb-10																				
A5500	Installation of TPS Equipment	30	10-Feb-10	29-Mar-10																				
A5510	Install Telecom and Scada	15	09-Mar-10	29-Mar-10																				
A5520	Testing and Commissioning	14	30-Mar-10	19-Apr-10																				
Ocean Terminal (Inc.) to Ocean Drive (exc.)		719	25-Mar-09	24-Jan-11																				
Roadworks																								
12010	Issue Construction Drawings	460	03-Oct-08	26-Jul-10																				
A1170	CH 0850 to 1050	0	03-Oct-08*																					
A1180	CH 1070 to 1410	75	24-Jul-09	05-Nov-09																				
A1190	CH 1410 to 1650	20	08-Feb-10	05-Mar-10																				
A1200	CH 1410 to 1650	20	01-Jul-10	26-Jul-10																				
Trackwork																								
12020	Issue Construction Drawings	544	03-Oct-08	26-Nov-10																				
A1050	CH 0850 to 0950	0	03-Oct-08*																					
A1070	CH 0950 to 1040	40	15-Dec-09	22-Feb-10																				
A1080	CH 1040 to 1070 (JNC 7)	40	23-Feb-10	20-Apr-10																				
A1120	CH 1070 to 1215	55	21-Apr-10	09-Jul-10																				
A1130	CH 1215 to 1410 (JNC 8)	50	08-Feb-10	19-Apr-10																				
A1140	CH 1410 to 1630	50	20-Apr-10	30-Jun-10																				
A1150	CH 1630 to 1650 (JNC 9)	50	01-Jul-10	09-Sep-10																				
A1160	CH 1650 to 1705	50	20-Sep-10	26-Nov-10																				
Victoria Dock Entrance Bridge (S16)																								
12030	Issue Construction Drawings	258	06-Oct-08	12-Oct-09																				
A131	Extend Deck Supports to the North	0	06-Oct-08*																					
A171	North Deck Extension	20	04-Nov-08	02-Dec-08																				
A181	Extend Deck Supports to the South	45	03-Dec-08	17-Feb-09																				
A1780	South Deck Extension	70	10-Feb-09	29-May-09																				
A1790	Reprofile Existing Deck	45	01-Jun-09	31-Jul-09																				
A1791	Reprofile Existing Deck	50	04-Aug-09	12-Oct-09																				
Tower Place Bridge (S17)																								
12040	Issue Construction Drawings	315	06-Nov-08	05-Feb-10																				
A101	Extend Deck Supports to the North	0	05-Nov-08*																					
A111	North Deck Extension	70	06-Dec-08	27-Mar-09																				
A1760	South Deck Extension	45	30-Mar-09	03-Jun-09																				
A1770	Reprofile Existing Deck	45	11-Sep-09	12-Nov-09																				
A31	Extend Deck Supports to the South	50	13-Nov-09	05-Feb-10																				
A32	MUDFA Service Diversions (Dummy)	70	04-Jun-09	10-Sep-09																				
A33	MUDFA Service Diversions (Dummy)	50	13-Nov-09	05-Feb-10																				
Ocean Terminal Train Stop																								
12050	Issue Construction Drawings	719	25-Mar-09	24-Jan-11																				
A14	Civil Engineering and Building Works	0	25-Mar-08*																					
A178	Order REC Supply	65	21-Apr-10	22-Jul-10																				
A1720	Deliver and Install Shelter	0	00-May-10																					
A4318	Access for visual inspection for E&M Train Stop installation (01A Ocean Terminal)	10	10-Jun-10	01-Jul-10																				
A4319	Access for E&M Train Stop installation (01A Ocean Terminal)	0	02-Jun-10																					
A4320	Install LV Power Supply and LV Power Equipment	25	02-Jul-10	00-Aug-10																				
A4330	Install Telecom Equipment	20	09-Aug-10	03-Sep-10																				
A4340	Install Station Control Equipment + AFC Equipment	25	09-Aug-10	10-Sep-10																				
A4350	Package Test Trainstop	5	13-Sep-10	17-Sep-10																				
A6090	Installation of SIG-interlocking cubicle (2)	15	10-Jul-10	06-Aug-10																				
A6100	Commissioning of SIG-interlocking cubicle	5	18-Jan-11	24-Jan-11																				
Ocean Drive (Inc.) to Constitution Street (exc.)																								
Trackworks																								
12060	Issue Construction Drawings	470	03-Oct-08	11-Aug-10																				
24-Jan-11, Ocean Terminal 1																								
29-Sep-10, Ocean Drive (inc.) to Constitution Street (exc.)																								
31-Aug-10, Trackworks																								

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N					
A3800	Install Signalling Wayside Equipment	12	17-Dec-08	28-Dec-08				
Foot of the Walk (inc.) to Balfour Street (exc.)		44d 25-Feb-09 23-Nov-09						
12120	Issue Construction Drawings	44d	25-Feb-08	23-Nov-08*				
528	Order REC Supply	0	10-Jul-09	25-Feb-08*				
Construction		33d 05-Aug-08 23-Nov-09						
50	Civil Engineering And Building Works	65	05-Aug-08	04-Nov-08				
A2550	Deliver and Install Shelter	10	24-Aug-09	07-Sep-09				
A4438	Access for visual inspection for E&M Tram Stop installation (01D Foot of the Walk)	0	05-Aug-09					
A4439	Access for E&M Tram Stop installation (01B Foot of the Walk)	0	07-Sep-09					
A4440	Install LV Power Supply and LV Power Equipment	25	07-Sep-09	12-Oct-09				
A4450	Install Telecom Equipment	20	12-Oct-09	09-Nov-09				
A4460	Install Station Control Equipment + AFC Equipment	25	12-Oct-09	16-Nov-09				
A4470	Package Test Tramstop	5	16-Nov-09	23-Nov-09				
Leith Walk Substation		141 15-Jul-08 03-Feb-09						
146	Order REC supply from Scottish Power	0	15-Jul-08					
172	Civi Engineering and Building Works	65	06-Aug-08	04-Nov-08				
A2638	Access for visual inspection for E&M Substation installation (01B Leith Walk)	0	06-Oct-08					
A2639	Access for E&M Substation installation (01B Leith Walk)	0	05-Nov-08					
A5530	Power Infeed from Public Net available inc HV cable	0	05-Nov-08					
A5540	Install LV Power Supply and LV Power Equipment	15	05-Nov-08	25-Nov-08				
A5550	Installation of TPS Equipment	30	19-Nov-08	14-Jan-09				
A5560	Install Telecom and Scada	15	11-Dec-08	14-Jan-09				
A5570	Testing and Commissioning	14	15-Jan-09	03-Feb-09				
Trackwork		33d 28-Mar-08 16-Jul-09						
12130	Issue Construction Drawings	0	28-Mar-08*					
Foot of the Walk Ch 0-100		66 12-Dec-08 19-Mar-09						
Phase 1		28 12-Dec-08 22-Jan-09						
A12450	Establish Traffic Management & Temp. Fencing	2	12-Dec-08	15-Dec-08				
A12460	Excavate box	2	16-Dec-08	17-Dec-08				
A12470	Excavate, lay and concrete ducts	3	16-Dec-08	05-Jan-09				
A12480	Excavate and construct OLE bases	3	18-Dec-08	05-Jan-09				
A12490	Place Lower concrete and cure	3	05-Jan-09	08-Jan-09				
A12500	Set Track (50m)	1	09-Jan-09	09-Jan-09				
A12510	Place upper concrete and cure	5	12-Jan-09	16-Jan-09				
A12520	Street Surface finishes	3	19-Jan-09	21-Jan-09				
A13519	Remove fencing and Traffic Management	1	22-Jan-09	22-Jan-09				
Phase 2		20 23-Jan-09 19-Feb-09						
A12530	Establish Traffic Management & Temp. Fencing	2	23-Jan-09	20-Jan-09				
A12540	Excavate box	2	27-Jan-09	20-Jan-09				
A12550	Excavate, lay and concrete ducts	3	29-Jan-09	02-Feb-09				
A12560	Excavate and construct OLE bases	3	29-Jan-09	02-Feb-09				
A12570	Place Lower concrete and cure	3	03-Feb-09	06-Feb-09				
A12580	Set Track (50m)	1	06-Feb-09	06-Feb-09				
A12590	Place upper concrete and cure	5	09-Feb-09	13-Feb-09				
A12600	Street Surface finishes	3	16-Feb-09	10-Feb-09				
A13500	Remove fencing and Traffic Management	1	19-Feb-09	19-Feb-09				
Phase 3		20 20-Feb-09 19-Mar-09						
A12610	Establish Traffic Management & Temp. Fencing	2	20-Feb-09	23-Feb-09				
A12620	Excavate box	2	24-Feb-09	25-Feb-09				
A12630	Excavate, lay and concrete ducts	3	26-Feb-09	02-Mar-09				
A12640	Excavate and construct OLE bases	3	26-Feb-09	02-Mar-09				
A12650	Place Lower concrete and cure	3	03-Mar-09	05-Mar-09				
A12660	Set Track (50m)	1	06-Mar-09	05-Mar-09				
A12670	Place upper concrete and cure	5	09-Mar-09	13-Mar-09				

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			O N D J F M A M J J A S O N	D J F M A M J J A S O N	D J F M A M J J A S O N	D J F M A M J J A S O N	D J F M A M J J A S O N	
A12000	Reset Gullies	13	30-Sep-08	16-Oct-08				
A12010	Surface new channel	6	17-Oct-08	24-Oct-08				
A12020	Pavement Works	12	10-Oct-08	27-Oct-08				
A12030	Street Lighting / Traffic Signals / Road Signs	7	10-Oct-08	20-Oct-08				
A12040	Remove fencing and Traffic Management	1	28-Oct-08	28-Oct-08				
Leith Walk Ch 350-600		30	29-Oct-08	11-Dec-08				
A12050	Establish Traffic Management & Temp. Fencing	2	29-Oct-08	30-Oct-08				
A12060	Excavate for new channel and kerb line / remove existing kerbs	10	31-Oct-08	13-Nov-08				
A12070	Construct Kerb lines	13	05-Nov-08	21-Nov-08				
A12080	Reset Gullies	13	12-Nov-08	20-Nov-08				
A12090	Surface new channel	6	02-Dec-08	09-Dec-08				
A12100	Pavement Works	12	24-Nov-08	10-Dec-08				
A12110	Street Lighting / Traffic Signals / Road Signs	7	24-Nov-08	03-Dec-08				
A12120	Remove fencing and Traffic Management	1	11-Dec-08	11-Dec-08				
Balfour Street (Incl.) to McDonald Road (exc.)		888	28-Jan-09	06-Apr-10				
Trackwork								
12150	Issue Construction Drawings	411	28-Mar-08	09-Nov-09				
Balfour Street Ch 600-850		43	15-May-09	16-Jul-09				
1st half								
A12050	Establish Traffic Management & Temp. Fencing	24	15-May-09	16-Jun-09				
A12060	Excavate box	2	15-May-09	16-May-09				
A12070	Excavate, lay and concrete ducts	2	19-May-09	20-May-09				
A12080	Excavate and construct OLE bases	3	21-May-09	26-May-09				
A12090	Place Lower concrete and cure	3	27-May-09	29-May-09				
A12900	Set Track (250m)	3	01-Jun-09	03-Jun-09				
A12910	Place upper concrete and cure	5	04-Jun-09	10-Jun-09				
A12920	Street Surface finishes	6	11-Jun-09	16-Jun-09				
2nd half								
A13250	Excavate box	19	19-Jun-09	16-Jul-09				
A13260	Excavate, lay and concrete ducts	2	19-Jun-09	22-Jun-09				
A13270	Excavate and construct OLE bases	3	23-Jun-09	25-Jun-09				
A13280	Place Lower concrete and cure	3	26-Jun-09	30-Jun-09				
A13290	Set Track	3	01-Jul-09	03-Jul-09				
A13300	Place upper concrete and cure	5	05-Jul-09	10-Jul-09				
A13310	Street Surface finishes	3	13-Jul-09	15-Jul-09				
A13320	Remove fencing and Traffic Management	1	16-Jul-09	16-Jul-09				
Piling / Iona Street Ch 850 to 950		40	17-Jul-09	11-Sep-09				
1st half								
A12930	Establish Traffic Management & Temp. Fencing	23	17-Jul-09	18-Aug-09				
A12940	Excavate box	2	17-Jul-09	20-Jul-09				
A12950	Excavate, lay and concrete ducts	2	21-Jul-09	22-Jul-09				
A12960	Excavate and construct OLE bases	3	23-Jul-09	27-Jul-09				
A12970	Place Lower concrete and cure	3	28-Jul-09	30-Jul-09				
A12980	Set Track (100m)	1	31-Jul-09	31-Jul-09				
A12990	Place upper concrete and cure	5	04-Aug-09	10-Aug-09				
A13000	Street Surface finishes	6	11-Aug-09	18-Aug-09				
2nd half								
A13330	Excavate box	17	19-Aug-09	11-Sep-09				
A13340	Excavate, lay and concrete ducts	2	19-Aug-09	20-Aug-09				
A13350	Excavate and construct OLE bases	3	21-Aug-09	25-Aug-09				
A13360	Place Lower concrete and cure	3	26-Aug-09	28-Aug-09				
A13370	Set Track	1	31-Aug-09	31-Aug-09				
A13380	Place upper concrete and cure	5	01-Sep-09	07-Sep-09				
A13390	Street Surface finishes	3	08-Sep-09	10-Sep-09				
A13400	Remove fencing and Traffic Management	1	11-Sep-09	11-Sep-09				

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N					
A2600	Deliver and Install Shelter	10	04-Jan-10	10-Jan-10				
A478	Access for visual inspection for E&M Tram Stop installation (01B Balfour Street)	0	17-Dec-09					
A479	Access for E&M Tram Stop installation (01B Balfour Street)	0	10-Jan-10					
A480	Install LV Power Supply and LV Power Equipment	25	18-Jan-10	22-Feb-10				
A490	Install Telecom Equipment	20	22-Feb-10	22-Mar-10				
A500	Install Station Control Equipment + AFC Equipment	25	22-Feb-10	29-Mar-10				
A510	Package Test Tramstop	5	29-Mar-10	06-Apr-10				
01C McDonald Road (inc.) to Princess Street West (ext.)		757	04-Feb-08	26-Jan-11				
E & M Installations		62	02-Jun-10	27-Aug-10				
A3643	Access for visual inspection for E&M wayside installation (01C)	0	02-Jun-10					
A3644	Access for E&M wayside installation (01C)	0	24-Jun-10					
A3645	Installation of poles and building fixings	15	24-Jun-10	08-Jul-10				
A3650	Overhead Catenary Line	30	09-Jul-10	13-Aug-10				
A3658	Access for visual inspection to cable pits for cable laying (01C)	0	27-Jun-10					
A3659	Access to cable pits for cable laying (01C)	0	19-Jul-10					
A3660	Install Electrical Cables	20	19-Jul-10	07-Aug-10				
A3670	Install Fibre Optic Cables	20	19-Jul-10	07-Aug-10				
A3680	Install Signalling Wayside Equipment	20	08-Aug-10	27-Aug-10				
McDonald Road (inc.) to Picardy Place (ext.)		577	04-Feb-08	12-May-10				
McDonald Road Tram Stop		577	04-Feb-08	12-May-10				
12180	Issue Construction Drawings	0	04-Feb-08					
540	Order REC Supply	0	23-Nov-09					
600	Civil Engineering And Building Works	65	22-Jul-09	24-Nov-09				
A2600	Deliver and Install Shelter	10	08-Feb-10	22-Feb-10				
A2608	Access for visual inspection for E&M Tram Stop installation (01C McDonald Road)	0	21-Jan-10					
A2609	Access for E&M Tram Stop installation (01C McDonald Road)	0	22-Feb-10					
A2670	Install LV Power Supply and LV Power Equipment	25	22-Feb-10	29-Mar-10				
A2673	Install Telecom Equipment	20	29-Mar-10	27-Apr-10				
A2675	Install Station Control Equipment + AFC Equipment	25	29-Mar-10	05-May-10				
A2680	Package Test Tramstop	5	05-May-10	12-May-10				
Trackworks		447	28-Apr-08	02-Feb-10				
12190	Issue Construction Drawings	0	28-Apr-08*					
Leith Walk Ch 0-375		74	22-Jul-09	03-Nov-09				
A13550	Dummy	50	22-Jul-09	03-Nov-09				
London Road Ch 375-450		61	04-Nov-09	02-Feb-10				
A13560	Dummy	40	04-Nov-09	02-Feb-10				
Roadworks		312	28-Apr-08	21-Jul-09				
12200	Issue Construction Drawings	0	28-Apr-08*					
Leith Walk Ch 0-325		101	31-Oct-08	26-Mar-09				
A13540	Dummy	80	31-Oct-08	26-Mar-09				
London Road Ch 375-450		81	27-Mar-09	21-Jul-09				
A13570	Dummy	80	27-Mar-09	21-Jul-09				
Picardy Place (inc.) to St Andrews Square (ext.)		728	14-Mar-08	26-Jan-11				
Trackworks		506	28-Apr-08	21-Jul-10				
12210	Issue Construction Drawings	1	0	28-Apr-08*				
Picardy Place Ch 450-700		81	29-Mar-10	21-Jul-10				
Phase 3		42	29-Mar-10	25-May-10				
A13640	Dummy	40	29-Mar-10	25-May-10				
Phase 4		39	25-May-10	21-Jul-10				
A13650	Dummy	40	26-May-10	21-Jul-10				
York Place Ch 700-850		44	04-Jan-10	04-Mar-10				
A13660	Dummy	44	04-Jan-10	04-Mar-10				
York Place Ch 850-1000		45	13-Apr-10	15-Jun-10				
A13670	Dummy	44	13-Apr-10	15-Jun-10				
Picardy Place Tram Stop		623	14-Mar-08	26-Aug-10				

- : Deliver and Install Shelter
- ◆ : Access for visual inspection for E&M Tram Stop installation (01B Balfour Street)
- ◆ : Access for E&M Tram Stop installation (01B Balfour Street)
- : Install LV Power Supply and LV Power Equipment
- : Install Telecom Equipment
- : Install Station Control Equipment + AFC Equipment
- : Package Test Tramstop

26-Jan-11, 01C McDonald R.

27-Aug-10, E & M installations

◆ : Access for visual inspection for E&M wayside installation

◆ : Access for E&M wayside installation (01C)

■ : Installation of poles and building fixings

□ : Overhead Catenary Line

◆ : Access for visual inspection to cable pits for cable laying

◆ : Access to cable pits for cable laying (01C)

□ : Install Electrical Cables

■ : Install Fibre Optic Cables

□ : Install Signalling Wayside Equipment

12-May-10, Picardy Place (inc) to Picardy Place (ext)

12-May-10, McDonald Road Tram Stop

◆ : Issue Construction Drawings, 04-Feb-08*

□ : Order REC Supply

Civil Engineering And Building Works

□ : Deliver and Install Shelter

◆ : Access for visual inspection for E&M Tram Stop installation (01C)

◆ : Access for E&M Tram Stop installation (01C McDonald Road)

□ : Install LV Power Supply and LV Power Equipment

□ : Install Telecom Equipment

□ : Install Station Control Equipment + AFC Equipment

□ : Package Test Tramstop

02-Feb-10, Trackworks

◆ : Issue Construction Drawings, 20-Apr-08*

03-Nov-09, Leith Walk Ch 0-375

□ : Dummy

02-Feb-10, London Road Ch 375-450

□ : Dummy

21-Jul-09, Romeworks

◆ : Issue Construction Drawings, 28-Apr-08*

26-Mar-09, Leith Walk Ch 0-375

□ : Dummy

21-Jul-09, London Road Ch 375-450

□ : Dummy

26-Jan-11, Picardy Place (inc)

21-Jul-10, Trackworks

◆ : Issue Construction Drawings, 28-Apr-08*

25-May-10, Phase 3

□ : Dummy

21-Jul-10, Phase 4

□ : Dummy

04-Mar-10, York Place Ch 700-850

□ : Dummy

15-Jun-10, York Place Ch 850-1000

□ : Dummy

23-Aug-10, Picardy Place Tram Stop

The Gantt chart displays the following project details:

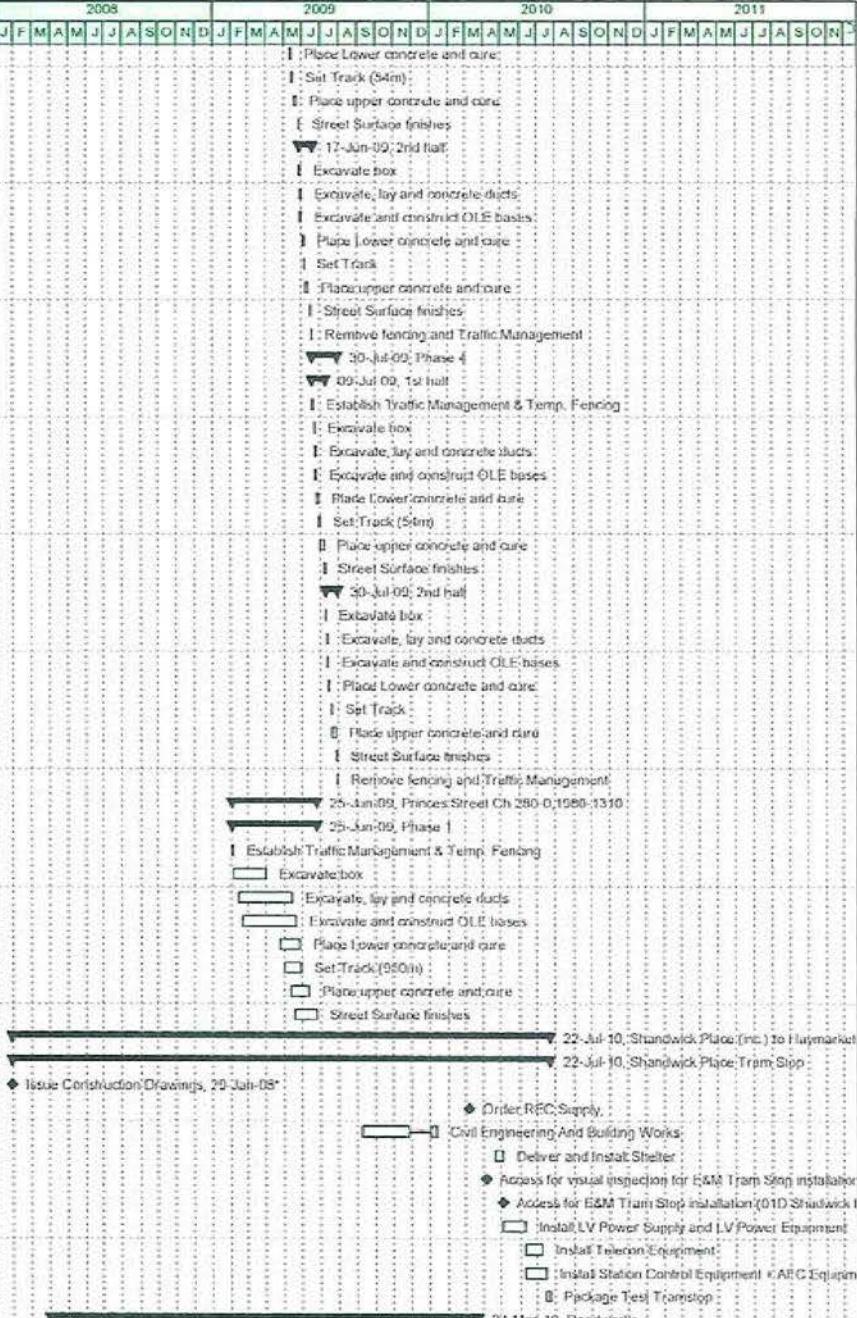
- Activities and Dates:**
 - Issue Construction Drawings (12220) - 14-Mar-08*
 - Order REC Supply (558) - 01-Apr-10
 - Civil Engineering And Building Works (610) - 05-Mar-10 to 30-Jun-10
 - Deliver and Install Shelter (A2/20) - 10-May-10 to 09-Jun-10
 - Access for visual inspection for E&M Tram Stop installation (01C Picardy Place) (A4518) - 01-May-10
 - Access for E&M Tram Stop installation (01C Picardy Place) (A4519) - 01-Jun-10
 - Install LV Power Supply and LV Power Equipment (A4520) - 25-Jun-10 to 14-Jul-10
 - Install Telecom Equipment (A4530) - 20-Jul-10 to 12-Aug-10
 - Install Station Control Equipment + AFC Equipment (A4540) - 26-Jul-10 to 19-Aug-10
 - Package Test Tramstop (A4550) - 05-Aug-10 to 26-Aug-10
 - Roadworks (12230) - 0697 (28-Apr-08 to 26-Jan-11)
 - Picardy Place Ch 450-700:**
 - Phase 1 (A13580) - Dummy (04-Jan-10 to 29-Jan-10)
 - Phase 2 (A13590) - Dummy (04-Jan-10 to 26-Mar-10)
 - Phase 3 (A13600) - Dummy (01-Feb-10 to 26-Mar-10)
 - Phase 4 (A13610) - Dummy (29-Mar-10 to 25-May-10)
 - Phase 5 (A13620) - Dummy (29-Mar-10 to 25-May-10)
 - Phase 6 (A13630) - Dummy (26-May-10 to 21-Jul-10)
 - Phase 7 (A13640) - Dummy (22-Jul-10 to 20-Oct-10)
 - Phase 8 (A13650) - Dummy (22-Jul-10 to 20-Oct-10)
 - Phase 9 (A13660) - Dummy (21-Oct-10 to 26-Jan-11)
 - Phase 10 (A13670) - Dummy (21-Oct-10 to 26-Jan-11)
 - York Place Ch 700-850:**
 - Phase 1 (A13680) - Dummy (04-Jan-10 to 12-Apr-10)
 - Phase 2 (A13690) - Dummy (04-Jan-10 to 12-Mar-10)
 - Phase 3 (A13700) - Dummy (15-Mar-10 to 12-Apr-10)
 - Phase 4 (A13710) - Dummy (15-Mar-10 to 12-Apr-10)
 - York Place Ch 850-1000:**
 - Phase 1 (A13700) - Dummy (13-Apr-10 to 23-Jun-10)
 - Phase 2 (A13710) - Dummy (13-Apr-10 to 23-Jun-10)
 - Phase 3 (A13720) - Dummy (24-Jun-10 to 21-Jul-10)
 - Phase 4 (A13730) - Dummy (24-Jun-10 to 21-Jul-10)
 - Cathedral SubStation:**
 - Order REC supply from Scottish Power (346) - 01-Feb-10
 - Civil Engineering and Building Works (356) - 01-Mar-10 to 02-Jun-10
 - Access for visual inspection for E&M substation installation (01C Cathedral) (A2838) - 04-May-10
 - Access for E&M substation installation (01C Cathedral) (A2839) - 03-Jun-10
 - Power Infeed from Public Net available inc LV cable (A5580) - 03-Jun-10
 - Install LV Power Supply and LV Power Equipment (A5590) - 03-Jun-10 to 23-Jun-10
 - Installation of TPS Equipment (A5600) - 17-Jun-10 to 28-Jul-10
 - Install Telecom and Scada (A5610) - 08-Jul-10 to 28-Jul-10
 - Testing and Commissioning (A5620) - 29-Jul-10 to 18-Aug-10
 - Installation of SIG-interlocking cubicle (A6120) - 17-Jun-10 to 30-Jun-10
 - Commissioning of SIG-interlocking cubicle (A6130) - 30-Aug-10 to 03-Sep-10
 - St Andrews Square (002) to Princes Street West (002)** - 656 (06-Feb-09 to 03-Sep-10)
 - Issue Construction Drawings (12240) - 28-Apr-08 to 27-Nov-09
 - Waverley Bridge Ch 1310-1460
 - Phase 1 (A11650) - Establish Traffic Management & Temp. Fencing (06-Oct-09 to 30-Oct-09)
 - Excavate box (A11660) (06-Oct-09 to 07-Oct-09)
 - Excavate, lay and concrete ducts (A11670) (08-Oct-09 to 09-Oct-09)
 - Establish Traffic Management & Temp. Fencing (A11680) (12-Oct-09 to 14-Oct-09)

Legend:

 - Diamond: Issue Construction Drawings
 - Square: Order REC Supply
 - Triangle: Civil Engineering And Building Works
 - Bar: Deliver and Install Shelter
 - Bar with dots: Access for visual inspection for E&M Tram Stop Installation
 - Bar with dots: Access for E&M Tram Stop Installation
 - Bar with dots: Install LV Power Supply and LV Power Equipment
 - Bar with dots: Install Telecom Equipment
 - Bar with dots: Install Station Control Equipment + AFC Equipment
 - Bar with dots: Package Test Tramstop
 - Bar with dots: 25-Jan-10, Phase 1
 - Bar with dots: Dummy
 - Bar with dots: 26-Mar-10, Phase 2
 - Bar with dots: Dummy
 - Bar with dots: 25-May-10, Phase 3
 - Bar with dots: Dummy
 - Bar with dots: 21-Jul-10, Phase 4
 - Bar with dots: Dummy
 - Bar with dots: 20-Oct-10, Phase 5
 - Bar with dots: Dummy
 - Bar with dots: 26-Jan-11, Phase 6
 - Bar with dots: Dummy
 - Bar with dots: 12-Apr-10, York Place Ch 700-850
 - Bar with dots: Dummy
 - Bar with dots: 12-Mar-10, Phase 1
 - Bar with dots: Dummy
 - Bar with dots: 12-Apr-10, Phase 2
 - Bar with dots: Dummy
 - Bar with dots: 21-Jul-10, York Place Ch 850-1000
 - Bar with dots: Dummy
 - Bar with dots: 23-Jun-10, Phase 1
 - Bar with dots: Dummy
 - Bar with dots: 21-Jul-10, Phase 2
 - Bar with dots: Dummy
 - Bar with dots: 03-Sep-10, Cathedral SubStation
 - Diamond: Order REC supply from Scottish Power
 - Bar: Civil Engineering and Building Works
 - Bar with dots: Access for visual inspection for E&M substation installation
 - Bar with dots: Access for E&M substation installation (01C Cathedral)
 - Bar with dots: Power Infeed from Public Net available inc LV cable
 - Bar with dots: Install LV Power Supply and LV Power Equipment
 - Bar with dots: Installation of TPS Equipment
 - Bar with dots: Install Telecom and Scada
 - Bar with dots: Testing and Commissioning
 - Bar with dots: Installation of SIG-interlocking cubicle
 - Bar with dots: Commissioning of SIG-interlocking cubicle
 - Bar with dots: 27-Nov-09, Trackworks
 - Bar with dots: Dummy
 - Bar with dots: 30-Oct-09, Waverley Bridge Ch 1310-1460
 - Bar with dots: Establish Traffic Management & Temp. Fencing
 - Bar with dots: Excavate box
 - Bar with dots: Excavate, lay and concrete ducts

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			O N D O J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N					
	A11600 Excavate and construct OLE bases		3 12-Oct-09	14-Oct-09				
	A11690 Place Lower concrete and cure		3 15-Oct-09	19-Oct-09				
	A11700 Set Track (75m)		1 20-Oct-09	20-Oct-09				
	A11710 Place upper concrete and cure		5 21-Oct-09	27-Oct-09				
	A11720 Street Surface finishes		3 28-Oct-09	30-Oct-09				
	St Andrews Square Ch 1000-1310		57 07-Sep-09	27-Nov-09				
	A13530 Dummy		60 07-Sep-09	27-Nov-09				
Roadworks	402 Issue Construction Drawings		402 28-Apr-09	27-Nov-09				
			0	28-Apr-09*				
	Wavelley Bridge Ch 1460-1310		57 07-Sep-09	27-Nov-09				
	Phase 1							
	A10670 Establish Traffic Management & Temp. Fencing		20 07-Sep-09	05-Oct-09				
	A10680 Take down permanent traffic signs / signals		2 07-Sep-09	08-Sep-09				
	A10690 Excavate traffic islands		5 09-Sep-09	15-Sep-09				
	A10700 Subbase		3 10-Sep-09	10-Sep-09				
	A10710 Temporary surfacing		2 21-Sep-09	22-Sep-09				
	A10720 Temporary Traffic signals / signs / white lines		3 23-Sep-09	25-Sep-09				
	A10730 Remove fencing and Traffic Management		5 28-Sep-09	02-Oct-09				
			1 05-Oct-09	05-Oct-09				
	Phase 2							
	A10740 Establish Traffic Management & Temp. Fencing		2 06-Oct-09	07-Oct-09				
	A10750 Excavate kerbline		2 08-Oct-09	09-Oct-09				
	A10760 Relay kerbs		4 09-Oct-09	14-Oct-09				
	A10770 Reset Gullies		4 12-Oct-09	15-Oct-09				
	A10780 Plane out wearing course		1 16-Oct-09	16-Oct-09				
	A10790 Resurface road		3 19-Oct-09	21-Oct-09				
	A10800 Pavement (1m strip)		4 19-Oct-09	20-Oct-09				
	A10810 White Lines		1 22-Oct-09	22-Oct-09				
	A10820 Street Lighting / Road signs		6 15-Oct-09	22-Oct-09				
	A10830 Remove fencing and Traffic Management		1 23-Oct-09	23-Oct-09				
	Phase 3							
	A11140 Establish Traffic Management & Temp. Fencing		2 26-Oct-09	27-Oct-09				
	A11150 Rebuild Traffic Islands		22 28-Oct-09	26-Nov-09				
	A11160 Remove fencing and Traffic Management		1 27-Nov-09	27-Nov-09				
	St Andrews Square Ch 1000-1310		57 07-Sep-09	27-Nov-09				
	A13520 Dummy		60 07-Sep-09	27-Nov-09				
Princes Street West Tram Stop	491 Issue Construction Drawings		491 22-Feb-09	01-Feb-10				
			0	22-Feb-09*				
	12290 Issue Construction Drawings							
	578 Order REC Supply							
	630 Civil Engineering And Building Works							
	A2780 Deliver and Install Shelter							
	A4598 Access for visual inspection for E&M Tram Stop installation (010 Princess Street W)							
	A4599 Access for E&M Tram Stop installation (010 Princess Street West)							
	A4600 Install LV Power Supply and LV Power Equipment							
	A4610 Install Telecom Equipment							
	A4620 Install Station Control Equipment + AFC Equipment							
	A4630 Package Test Tramstop							
	St Andrews Square Tram Stop							
	12260 Issue Construction Drawings							
	568 Order REC Supply							
	620 Civil Engineering And Building Works							
	A2750 Deliver and Install Shelter							
	A4558 Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	A4559 Access for E&M Tram Stop installation (01C St Andrews Square)							
	A4560 Install LV Power Supply and LV Power Equipment							
	A4570 Install Telecom Equipment							
			0 05-Feb-09	03-Sep-10*				
	656 Issue Construction Drawings							
			0 21-Sep-09					
	558 Order REC Supply							
	620 Civil Engineering And Building Works							
	A2750 Deliver and Install Shelter							
	A4558 Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	A4559 Access for E&M Tram Stop installation (01C St Andrews Square)							
	A4560 Install LV Power Supply and LV Power Equipment							
	A4570 Install Telecom Equipment							
			0 15-Oct-09					
			0 16-Nov-09					
	25 16-Nov-09		22-Jan-10					
	20 25-Jan-10		19-Feb-10					
			0 05-Feb-09	03-Sep-10*				
	● Issue Construction Drawings, 05-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 22-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01D Princess Street W)							
	● Access for E&M Tram Stop installation (01D Princess Street West)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop							
	● Issue Construction Drawings, 06-Feb-09*							
	● Order REC Supply							
	● Civil Engineering And Building Works							
	● Deliver and Install Shelter							
	● Access for visual inspection for E&M Tram Stop installation (01C St Andrews Square)							
	● Access for E&M Tram Stop installation (01C St Andrews Square)							
	● Install LV Power Supply and LV Power Equipment							
	● Install Telecom Equipment							
	● Install Station Control Equipment + AFC Equipment							
	● Package Test Tramstop					</td		

Activity ID	Activity Name	Original Duration	Start	Finish	2008			2009			2010			2011														
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
	A8720 Place Lower concrete and cure		3 12-May-09	14-May-09																								
	A8730 Set Track (54m)		1 15-May-09	15-May-09																								
	A8740 Place upper concrete and cure		5 18-May-09	22-May-09																								
	A8750 Street Surface finishes		2 26-May-09	27-May-09																								
	2nd half		15 28-May-09	17-Jun-09																								
	A8760 Excavate box		1 28-May-09	28-May-09																								
	A8770 Excavate, lay and concrete ducts		2 29-May-09	01-Jun-09																								
	A8780 Excavate and construct OLE bases		2 29-May-09	01-Jun-09																								
	A8790 Place Lower concrete and cure		3 02-Jun-09	04-Jun-09																								
	A8800 Set Track		1 05-Jun-09	05-Jun-09																								
	A8810 Place upper concrete and cure		5 08-Jun-09	12-Jun-09																								
	A8820 Street Surface finishes		2 15-Jun-09	16-Jun-09																								
	A8830 Remove fencing and Traffic Management		1 17-Jun-09	17-Jun-09																								
	Phase 4		30 18-Jun-09	30-Jul-09																								
	1st half		15 18-Jun-09	09-Jul-09																								
	A8840 Establish Traffic Management & Temp. Fencing		2 18-Jun-09	19-Jun-09																								
	A8850 Excavate box		1 22-Jun-09	22-Jun-09																								
	A8860 Excavate, lay and concrete ducts		2 23-Jun-09	24-Jun-09																								
	A8870 Excavate and construct OLE bases		2 23-Jun-09	24-Jun-09																								
	A8880 Place Lower concrete and cure		3 25-Jun-09	29-Jun-09																								
	A8890 Set Track (54m)		1 30-Jun-09	30-Jun-09																								
	A8900 Place upper concrete and cure		5 01-Jul-09	07-Jul-09																								
	A8910 Street Surface finishes		2 08-Jul-09	09-Jul-09																								
	2nd half		15 10-Jul-09	30-Jul-09																								
	A8920 Excavate box		1 10-Jul-09	10-Jul-09																								
	A8930 Excavate, lay and concrete ducts		2 13-Jul-09	14-Jul-09																								
	A8940 Excavate and construct OLE bases		2 13-Jul-09	14-Jul-09																								
	A8950 Place Lower concrete and cure		3 15-Jul-09	17-Jul-09																								
	A8960 Set Track		1 20-Jul-09	20-Jul-09																								
	A8970 Place upper concrete and cure		5 21-Jul-09	27-Jul-09																								
	A8980 Street Surface finishes		2 28-Jul-09	29-Jul-09																								
	A8990 Remove fencing and Traffic Management		1 30-Jul-09	30-Jul-09																								
Princes Street Ch 280-0, 1980-1310					102 03-Feb-09	25-Jun-09																						
	Phase 1		102 03-Feb-09	25-Jun-09																								
	A13760 Establish Traffic Management & Temp. Fencing		2 03-Feb-09	04-Feb-09																								
	A13770 Excavate box		38 05-Feb-09	30-Mar-09																								
	A13780 Excavate, lay and concrete ducts		64 12-Feb-09	14-May-09																								
	A13790 Excavate and construct OLE bases		64 19-Feb-09	21-May-09																								
	A13800 Place Lower concrete and cure		22 24-Apr-09	27-May-09																								
	A13810 Set Track (950m)		19 01-May-09	29-May-09																								
	A13820 Place upper concrete and cure		24 11-May-09	12-Jun-09																								
	A13830 Street Surface finishes		28 18-May-09	25-Jun-09																								
Shadwick Place (inc.) to Haymarket (exc.)					630 29-Jan-08	22-Jul-10																						
	Shadwick Place Tram Stop		630 29-Jan-08	22-Jul-10																								
	12300 Issue Construction Drawings		01 29-Jan-08	29-Jan-08*																								
	588 Order REC Supply		01 08-Mar-10																									
	640 Civil Engineering And Building Works		65 03-Sep-09	12-Jan-10																								
	A2810 Deliver and Install Shelter		10 20-Apr-10	05-May-10																								
	A4638 Access for visual inspection for E&M Tram Stop installation (01D Shadwick Place)		0 05-Apr-10																									
	A4639 Access for E&M Tram Stop installation (01D Shadwick Place)		0 05-May-10																									
	A4640 Install LV Power Supply and LV Power Equipment		25 05-May-10	10-Jun-10																								
	A4650 Install Telecom Equipment		20 10-Jun-10	08-Jul-10																								
	A4660 Install Station Control Equipment + AFC Equipment		25 10-Jun-10	15-Jul-10																								
	A4670 Package Test Tramstop		5 15-Jul-10	22-Jul-10																								
	Roadworks		503 31-Mar-08	24-Mar-10																								



Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS	OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS	OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS	OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS	OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS OND JFM AMJ JAS	
A8240	Street Lighting / Traffic Signals / Road Signs	7	15-Oct-09	23-Oct-09				B: Street Lighting / Traffic Signals / Road Signs
A8245	Remove fencing and Traffic Management	1	27-Nov-09	27-Nov-09				C: Remove fencing and Traffic Management
Trackwork		542	31-Mar-09	18-May-10				D: 18-May-10, Trackwork
12320	Issue Construction Drawings	0		31-Mar-09*				
Haymarket Ch 1250-1125		163	13-Feb-09	02-Apr-09				
Phase 3:			31	13-Feb-09	27-Mar-09			
1st half			18	13-Feb-09	06-Mar-09			
A6570	Establish Traffic Management & Temp. Fencing	2	13-Feb-09	16-Feb-09				
A6580	Excavate box	1	17-Feb-09	17-Feb-09				
A6590	Excavate, lay and concrete ducts	2	16-Feb-09	19-Feb-09				
A6600	Excavate and construct OLE bases	2	16-Feb-09	19-Feb-09				
A6610	Place Lower concrete and cure	3	20-Feb-09	24-Feb-09				
A6620	Set Track (54m)	1	25-Feb-09	25-Feb-09				
A6630	Place upper concrete and cure	5	26-Feb-09	04-Mar-09				
A6640	Street Surface finishes	2	05-Mar-09	05-Mar-09				
2nd half			15	09-Mar-09	27-Mar-09			
A6650	Excavate box	1	09-Mar-09	09-Mar-09				
A6660	Excavate, lay and concrete ducts	2	10-Mar-09	11-Mar-09				
A6670	Excavate and construct OLE bases	2	10-Mar-09	11-Mar-09				
A6680	Place Lower concrete and cure	3	12-Mar-09	16-Mar-09				
A6690	Set Track	1	17-Mar-09	17-Mar-09				
A6700	Place upper concrete and cure	5	18-Mar-09	24-Mar-09				
A6710	Street Surface finishes	2	25-Mar-09	26-Mar-09				
A6720	Remove fencing and Traffic Management	1	27-Mar-09	27-Mar-09				
Phase 5:			30	04-Jun-09	15-Jul-09			
1st half			16	04-Jun-09	25-Jun-09			
A6920	Establish Traffic Management & Temp. Fencing	2	04-Jun-09	05-Jun-09				
A6940	Excavate box	1	05-Jun-09	05-Jun-09				
A6950	Excavate, lay and concrete ducts	2	09-Jun-09	10-Jun-09				
A6960	Excavate and construct OLE bases	2	09-Jun-09	10-Jun-09				
A6970	Place Lower concrete and cure	3	11-Jun-09	15-Jun-09				
A6980	Set Track (54m)	1	16-Jun-09	16-Jun-09				
A6990	Place upper concrete and cure	5	17-Jun-09	23-Jun-09				
A7000	Street Surface finishes	2	24-Jun-09	25-Jun-09				
2nd half			14	26-Jun-09	16-Jul-09			
A7010	Excavate box	1	26-Jun-09	26-Jun-09				
A7020	Excavate, lay and concrete ducts	2	29-Jun-09	30-Jun-09				
A7030	Excavate and construct OLE bases	2	29-Jun-09	30-Jun-09				
A7040	Place Lower concrete and cure	3	01-Jul-09	03-Jul-09				
A7050	Set Track	1	06-Jul-09	06-Jul-09				
A7060	Place upper concrete and cure	5	07-Jul-09	13-Jul-09				
A7070	Street Surface finishes	2	14-Jul-09	15-Jul-09				
A7075	Remove fencing and Traffic Management	1	16-Jul-09	16-Jul-09				
Phase 6:			55	17-Jul-09	02-Oct-09			
1st half			40	17-Jul-09	11-Sep-09			
A7000	Establish Traffic Management & Temp. Fencing	2	17-Jul-09	20-Jul-09				
A7100	Excavate box	1	21-Jul-09	21-Jul-09				
A7110	Excavate, lay and concrete ducts	2	22-Jul-09	23-Jul-09				
A7120	Excavate and construct OLE bases	2	22-Jul-09	23-Jul-09				
A7130	Place Lower concrete and cure	3	24-Jul-09	26-Jul-09				
A7140	Set Track (54m)	1	29-Jul-09	29-Jul-09				
A7150	Place upper concrete and cure	5	30-Jul-09	06-Sep-09				
A7160	Street Surface finishes	2	10-Sep-09	11-Sep-09				
2nd half			15	14-Sep-09	02-Oct-09			
A7170	Excavate box	1	14-Sep-09	14-Sep-09				

Activity ID	Activity Name	Original Duration	Start	Finish	2008			2009			2010			2011															
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O
	A8010	Place upper concrete and cure	5	12-Apr-10	16-Apr-10																								
	A8020	Street Surface finishes	3	19-Apr-10	21-Apr-10																								
	2nd half				19	22-Apr-10	18-May-10																						
	A8030	Excavate box	2	22-Apr-10	23-Apr-10																								
	A8040	Excavate, lay and concrete ducts	3	26-Apr-10	28-Apr-10																								
	A8050	Excavate and construct OLE bases	3	28-Apr-10	29-Apr-10																								
	A8060	Place Lower concrete and cure	3	29-Apr-10	04-May-10																								
	A8070	Set Track	1	05-May-10	05-May-10																								
	A8080	Place upper concrete and cure	5	05-May-10	12-May-10																								
	A8090	Street Surface finishes	3	13-May-10	17-May-10																								
	A8095	Remove fencing and Traffic Management	1	18-May-10	18-May-10																								
	Shandwick Place Ch 850-440				57	07-Sep-09	27-Nov-09																						
	Phase 1																												
	A8100	Establish Traffic Management & Temp. Fencing	2	07-Sep-09	08-Sep-09																								
	A8110	Excavate box	12	09-Sep-09	24-Sep-09																								
	A8120	Excavate, lay and concrete ducts	17	14-Sep-09	05-Oct-09																								
	A8130	Excavate and construct OLE bases	17	14-Sep-09	05-Oct-09																								
	A8140	Place Lower concrete and cure	8	07-Oct-09	16-Oct-09																								
	A8150	Set Track (820m)	9	19-Oct-09	29-Oct-09																								
	A8160	Place upper concrete and cure	10	30-Oct-09	12-Nov-09																								
	A8170	Street Surface finishes	10	13-Nov-09	20-Nov-09																								
	A8175	Remove fencing and Traffic Management	1	27-Nov-09	27-Nov-09																								
	SECTION 2 HAYMARKET CORRIDOR				379	26-Feb-08	21-Aug-09																						
	Opening Sequence A (Airport to Haymarket)				379	26-Feb-08	21-Aug-09																						
	0EA Haymarket Corridor				370	26-Feb-08	21-Aug-09																						
	E&M Installations				45	17-Feb-09	20-Apr-09																						
	A4043	Access for visual inspection for E&M wayside installation (02A)	0	17-Feb-09																									
	A4044	Access for E&M wayside installation (02A)	0	11-Mar-09																									
	A4045	Installation of poles and building fixings	7	11-Mar-09	17-Mar-09																								
	M050	Overhead Catenary Line	16	18-Mar-09	02-Apr-09																								
	A4058	Access visual inspection to cabin pits for cable laying (02A)	0	06-Mar-09																									
	A4059	Access to cabin pits for cable laying (02A)	0	28-Mar-09																									
	A4060	Install Electrical Cables	12	28-Mar-09	03-Apr-09																								
	A4070	Install Fibre Optic Cables	12	28-Mar-09	08-Apr-09																								
	A4080	Install Signalling Wayside Equipment	12	09-Apr-09	20-Apr-09																								
	Haymarket (inc.) to Roseburn Junction (inc.)				379	26-Feb-08	21-Aug-09																						
	Haymarket Station Viaduct (S19)				192	27-Feb-08	27-Nov-08																						
	10330	Issue Construction Drawings	0	27-Feb-08*																									
	10331	Notice to Vacate Caledonian Ale House	0	31-Mar-08*																									
	1138	Demolish Caledonian Ale House	20	01-Apr-08	28-Apr-08																								
	1139	Banksalt at Gridline 1	40	29-Apr-08	25-Jun-08																								
	192	Pier 2	30	07-May-08	18-Jun-08																								
	227	Pier 3	30	21-May-08	02-Jul-08																								
	498	Pier 4	30	05-Jun-08	16-Jul-08																								
	508	Pier 5	30	19-Jun-08	30-Jul-08																								
	560	Banksalt at Gridline 6	40	03-Jul-08	28-Aug-08																								
	570	Superstructure	95	20-Jun-08	06-Nov-08																								
	580	Finishes	15	07-Nov-08	27-Nov-08																								
	Trackwork (1135m)				253	25-Mar-08	24-Mar-09																						
	10340	Issue Construction Drawings	0	25-Mar-08*																									
	1099	Dusk Excavation - Sub Base	10	28-Nov-08	12-Dec-08																								
	1109	OLE Foundations - Drainage	19	15-Dec-08	22-Jan-09																								
	1119	CBM - Ducts	5	23-Jan-09	29-Jan-09																								
	1129	Track Laying	23	30-Jan-09	03-Mar-09																								

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N					
A4830	Package Test Tramstop		5 03-May-11	09-May-11				
Craigleath Bridge (S6)		435 12-Feb-08	27-Oct-09					
12460	Issue Construction Drawings	0		12-Feb-08*				
67	Craigleath Bridge (S6)	35 09-Sep-09	27-Oct-09					
Holiday Inn Access Bridge (S7)		580 28-Sep-07	26-Jan-10					
12470	Issue Construction Drawings	0		28-Sep-07*				
68	Holiday Inn Access Bridge (S7)	65 26-Oct-09	26-Jan-10					
Queensferry Road Bridge (S8)		644 28-Sep-07	13-Apr-10					
12480	Issue Construction Drawings	0		28-Sep-07*				
69	Queensferry Road Bridge (S8)	54 27-Jun-10	13-Apr-10					
Craigleath (exc.) to Telford Road (inc.)		739 11-Feb-08	10-Jan-11					
Trackwork (780m)		577 06-May-08	12-Aug-10					
12490	Issue Construction Drawings	0		06-May-08*				
1499	CBM - Ducts	26 05-Apr-10	14-May-10					
1509	Track laying	16 17-May-10	08-Jun-10					
1519	Track Finishes	30 09-Jun-10	20-Jul-10					
1529	Fencing	16 21-Jul-10	12-Aug-10					
343	OLE Foundations - Drainage	32 22-Feb-10	07-Apr-10					
720	Bulk Excavation - Subbase inc. Retaining Walls	50 27-Nov-09	19-Feb-10					
Groathill Road Bridge (S9)		391 11-Feb-08	24-Aug-09					
12500	Issue Construction Drawings	0		11-Feb-08*				
73	Groathill Road Bridge (S9)	35 06-Jul-09	24-Aug-09					
Telford Road Bridge (S10)		437 10-Mar-08	26-Nov-09					
12510	Issue Construction Drawings	0		10-Mar-08*				
74	Telford Road Bridge (S10)	68 25-Aug-09	26-Nov-09					
Craigleath Substation		137 18-May-10	01-Dec-10					
406	Order REC supply from Scottish Power	0 18-May-10						
416	Civil Engineering and Building Works	65 09-Jun-10	08-Sep-10					
A3208	Access for visual inspection for E&M Substation installation (03A Craigleath)	0 10-Aug-10						
A3209	Access for E&M Substation installation (03A Craigleath)	0 09-Sep-10						
A5680	Power Infeed from Public Net available inc HV cable	0 09-Sep-10						
A5690	Install LV Power Supply and LV Power Equipment	15 09-Sep-10	29-Sep-10					
A5700	Installation of TPS Equipment	30 30-Sep-10	10-Nov-10					
A5710	Install Telecom and Scada	15 21-Oct-10	10-Nov-10					
A5720	Testing and Commissioning	14 11-Nov-10	01-Dec-10					
Telford Road Tram Stop		739 11-Feb-08	10-Jan-11					
12520	Issue Construction Drawings	0		11-Feb-08*				
245	Civil Engineering and Building Works	65 09-Jun-10	08-Sep-10					
668	Order REC Supply	0 13-Aug-10						
A3180	Deliver and Install Shelter	10 24-Sep-10	08-Oct-10					
A4838	Access for visual inspection for E&M Tram Stop installation (03A Telford Road)	0 08-Sep-10						
A4839	Access for E&M Tram Stop installation (03A Telford Road)	0 08-Oct-10						
A4840	Install LV Power Supply and LV Power Equipment	25 08-Oct-10	12-Nov-10					
A4850	Install Telecom Equipment	20 12-Nov-10	13-Dec-10					
A4860	Install Station Control Equipment + AFC Equipment	25 12-Nov-10	20-Dec-10					
A4870	Package Test Tramstop	5 20-Dec-10	10-Jan-11					
Telford Road (exc.) to Crewe Toll (inc.)		853 28-Sep-07	28-Jun-11					
Crewe Road Tram Stop		855 19-Feb-08	28-Jun-11					
12530	Issue Construction Drawings	0		19-Feb-08*				
255	Civil Engineering and Building Works	65 03-Sep-10	03-Dec-10					
678	Order REC Supply	0 17-Sep-10						
A3240	Deliver and Install Shelter	10 29-Oct-10	11-Nov-10					
A4878	Access for visual inspection for E&M Tram Stop installation (03A Crewe Road)	0 13-Oct-10						
A4879	Access for E&M Tram Stop installation (03A Crewe Road)	0 12-Nov-10						
A4880	Install LV Power Supply and LV Power Equipment	25 12-Nov-10	17-Dec-10					

Activity ID	Activity Name	Original Start	Finish	2009												2010												
				O	N	D	J	F	M	A	M	J	J	S	O	N	D	J	F	M	A	M	J	J	S	O		
A4850	Install Telecom Equipment	20 Dec 10	28-Jan-11																									
A4850	Install Station Control Equipment + APC Equipment	25 Dec 10	04-Feb-11																									
A4910	Package Test Transition	5 Feb 11	11-Feb-11																									
A5210	Installation of SIG+interlocking cabinet	10-Nov-10	09-Dec-10																									
A5220	Commissioning of SIG+interlocking cabinet	5-Jun-11	28-Jun-11																									
Dyflow Drive Bridge (S11)																												
12540	Issue Construction Drawings	0	28-Sep-07																									
78	Dyflow Drive Bridge (S11)	31-Oct-10	21-May-11																									
Ferry Road Retaining Wall (W2)																												
12550	Issue Construction Drawings	0	28-Sep-07																									
79	Ferry Road Retaining Walls (W2)	02-Nov-09	07-Apr-10																									
Trackwork (419m)																												
12560	Issue Construction Drawings	0	05-May-09																									
15371	CBM - Ducts	14-Aug-10	20-Aug-10																									
15459	Track laying	9-Aug-10	02-Sep-10																									
15559	Track Finishes	19-Sep-10	29-Sep-10																									
15659	Fencing	9-Oct-10	12-Oct-10																									
253	OLE Foundations - Drainage	17-Jun-10	30-Jul-10																									
230	Bulk Excavation - Subsoil	34-May-10	07-Jul-10																									
CBM Services U (Greave Toll to Gravestock Station) [1]																												
E & I Installations																												
A3963	Access for visual inspection for E&I wayside installation (038)	0	14-Jan-11																									
A3984	Access for E&I wayside installation (038)	0	05-Feb-11																									
A3985	Installation of poles and building fixings	11-Feb-11	15-Feb-11																									
A3970	Overhead Category Line	26-Feb-11	13-Mar-11																									
A3978	Access for visual inspection to cable pits for cable laying (038)	0	04-Feb-11																									
A3979	Access to cable pits for cable laying (038)	0	26-Feb-11																									
A3980	Install Electrical Cables	12-Feb-11	09-Mar-11																									
A3980	Install Fibre Optic Cables	12-Feb-11	09-Mar-11																									
A4000	Install Signalling Wayside Equipment	12-Mar-11	21-Mar-11																									
Creve Toll (ex) to West Gravestock Avenue [1]																												
12570	Issue Construction Drawings	0	14-Dec-10																									
15279	Substructure	53-Apr-10	22-Jun-10																									
15289	Superstructure	02-Jun-10	27-Sep-10																									
15299	Wingwalls	14-May-10	01-Dec-10																									
85	Roadworks	25-Aug-10	28-Sep-10																									
Trackwork (670m)																												
12580	Issue Construction Drawings	0	25-Mar-09																									
13279	CBM - Ducts	22-Oct-10	25-Nov-10																									
13289	Track laying	14-Dec-10	16-Dec-10																									
13459	Track Finishes	20-Feb-11	10-Feb-11																									
13559	Road Crossings	14-Feb-11	25-Feb-11																									
13559	Fencing	27-Feb-11	28-Feb-11																									
303	OLE Foundations - Drainage	30-Aug-10	17-Sep-10																									
610	Bulk Excavation - Subsoil	04-Feb-09	01-Dec-10																									
12590	Issue Construction Drawings	0	28-Jan-09																									
205	Civil Engineering and Building Works	0	28-Jan-09																									
623	Order REC Supply	05-Dec-10	18-Mar-11																									
A3020	Deliver and Install Shelter	10-Feb-11	25-Feb-11																									
A3918	Access for visual inspection for CBM Train Stop installation (038 West Gravestock Avenue)	0	27-Jan-11																									
A3919	Access for E&I Train Stop installation (038 West Gravestock Avenue)	0	28-Feb-11																									
A3920	Install LV Power Supply and LV Power Equipment	25-Feb-11	04-Apr-11																									

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011																				
			O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
A5020	Install Station Control Equipment + AFC Equipment	25	24-Jan-11	20-Feb-11																								
A5030	Package Test Tramstop	5	20-Feb-11	07-Mar-11																								
Trackwork (370m)		503	03-Apr-08	06-Aug-10																								
1229	CBM - Ducts	13	01-Feb-10	17-Feb-10																								
1239	Track laying	6	10-Feb-10	01-Mar-10																								
1249	Track Finishes	17	02-Mar-10	24-Mar-10																								
1259	Road Crossings	20	02-Mar-10	29-Mar-10																								
12630	Issue Construction Drawings	0		03-Apr-08*																								
1269	Fencing	8	25-Mar-10	05-Apr-10																								
283	OLE Foundations - Drainage	15	11-Jan-10	29-Jan-10																								
660	Bulk Excavation - Subbase	16	02-Dec-09	08-Jan-10																								
Granton Waterfront (inc.) to Granton Square (inc.)		744	25-Feb-08	31-Jan-11																								
Granton Square Tram Stop		744	25-Feb-08	31-Jan-11																								
12640	Issue Construction Drawings	0		25-Feb-08*																								
175	Civil Engineering and Building Works	65	18-Jan-10	19-Apr-10																								
598	Order REC Supply	0	03-Sep-10																									
A2800	Deliver and Install Shelter	10	15-Oct-10	29-Oct-10																								
A5038	Access for visual inspection for E&M Train Stop installation (03C Granton Square)	0	29-Sep-10																									
A5039	Access for E&M Train Stop installation (03C Granton Square)	0	29-Oct-10																									
A5040	Install LV Power Supply and LV Power Equipment	25	29-Oct-10	06-Dec-10																								
A5050	Install Telecom Equipment	20	06-Dec-10	17-Jan-11																								
A5050	Install Station Control Equipment + AFC Equipment	25	06-Dec-10	24-Jan-11																								
A5070	Package Test Tramstop	5	24-Jan-11	31-Jan-11																								
AG240	Installation of SIG-interlocking cubicle	10	12-Nov-10	26-Nov-10																								
AG250	Commissioning of SIG -interlocking cubicle	5	26-Nov-10	03-Dec-10																								
Granton Road Sub Station		187	14-Dec-09	08-Sep-10																								
306	Order REC supply from Scottish Power	0	14-Dec-09																									
376	Civil Engineering and Building Works	65	18-Jan-10	19-Apr-10																								
A2888	Access for visual inspection for E&M Substation installation (03C Granton Road)	0	19-Mar-10																									
A2889	Access for E&M Substation installation (03C Granton Road)	0	20-Apr-10																									
A5780	Power Infeed from Public Net available inc HV cable	0	20-Apr-10																									
A5790	Install LV Power Supply and LV Power Equipment	15	20-Apr-10	11-May-10																								
A5800	Installation of TPS Equipment	30	07-Jul-10	19-Aug-10																								
A5810	Install Telecom and Scada	15	28-Jul-10	19-Aug-10																								
A5820	Testing and Commissioning	14	19-Aug-10	08-Sep-10																								
Trackwork (1130m)		521	03-Apr-08	22-Apr-10																								
1179	CBM - Ducts	37	09-Oct-09	01-Dec-09																								
1189	Track laying	23	02-Dec-09	15-Jan-10																								
1199	Track Finishes	45	18-Jan-10	19-Mar-10																								
1209	Road Crossings	40	18-Jan-10	12-Mar-10																								
1219	Fencing	23	22-Mar-10	22-Apr-10																								
12650	Issue Construction Drawings	0		03-Apr-08*																								
273	OLE Foundations - Drainage	45	07-Aug-09	08-Oct-09																								
650	Bulk Excavation - Subbase	23	05-Jul-09	06-Aug-09																								
SECTION 05 ROSEBURN JUNCTION TO GOGAR		741	28-Sep-07	30-Aug-10																								
Opening Sequence A (Airport to Haymarket)		741	28-Sep-07	30-Aug-10																								
05A Roseburn Junction (exc.) to Belgrave Read (inc.)		70	21-May-10	30-Aug-10																								
E & M installations																												
A4083	Access for visual inspection for E&M wayside installation (05A)	0	21-May-10																									
A4084	Access for E&M wayside installation (05A)	0	12-Jun-10																									
A4085	Installation of poles and building fixings	18	12-Jun-10	29-Jun-10																								
A4090	Overhead Catenary Line	43	30-Jun-10	30-Aug-10																								
A4090	Access for visual inspection in cable pits for cable laying (05A)	0	22-Jun-10																									
A4099	Access to cable pits for cable laying (05A)	0	14-Jul-10																									

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			O N D J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D		
A4100	Install Electrical Cables	12	14-Jul-10	25-Jul-10				D: Install Electrical Cables
A4110	Install Fibre Optic Cables	12	14-Jul-10	25-Jul-10				D: Install Fibre Optic Cables
A4120	Install Signalling Wayside Equipment	12	26-Jul-10	08-Aug-10				D: Install Signalling Wayside Equipment
Roseburn Junction (exc.) to Murrayfield (inc.)		730	28-Sep-07	13-Aug-10				✓ 13-Aug-10; Roseburn Junction (exc.) to Murrayfield (inc.)
Russel Road Underbridge (S20)		205	26-Feb-08	16-Dec-08				✓ 16-Dec-08; Russel Road Underbridge (S20)
10270	Issue Construction Drawings	0		26-Feb-08*				◆ Issue Construction Drawings, 26-Feb-08*
103	Excavation and piling	60	27-Mar-08	20-Jun-08				□ Excavation and piling
238	Bases	30	23-Jun-08	01-Aug-08				□ Bases
429	Abutments and Wing Walls	45	21-Jul-08	22-Sep-08				□ Abutments and Wing Walls
439	Deck	50	16-Sep-08	24-Nov-08				□ Deck
449	Bridge Finishes	60	23-Sep-08	16-Dec-08				□ Bridge Finishes
Russell Road Retaining Walls (W3 and W4)		333	07-Apr-08	29-Jul-09				✓ 29-Jul-09; Russell Road Retaining Walls (W3 and W4)
10660	Issue Construction Drawings	0		07-Apr-08*				◆ Issue Construction Drawings, 07-Apr-08*
107	Site Clearance	20	07-May-08	04-Jun-08				□ Site Clearance
250	Demolish Existing Buildings	50	05-Jun-08	14-Aug-08				□ Demolish Existing Buildings
338	Temporary Access Road	15	06-Aug-08	28-Aug-08				□ Temporary Access Road
348	Bored Piling	15	29-Aug-08	18-Sep-08				□ Bored Piling
370	Pile Caps	20	07-Nov-08	10-Dec-08				□ Pile Caps
659	Retaining Wall	45	05-Jan-09	06-Mar-09				□ Retaining Wall
669	Waterproofing	20	03-Mar-09	03-Apr-09				□ Waterproofing
679	Imported Fill	55	23-Mar-09	10-Jun-09				□ Imported Fill
680	Parapet	25	20-May-09	24-Jun-09				□ Parapet
690	Road Reinstate	25	25-Jun-09	29-Jul-09				□ Road Reinstate
Murrayfield Tram Stop Retaining Wall (W18)		274	07-Apr-08	05-May-09				✓ 05-May-09; Murrayfield Tram Stop Retaining Wall (W18)
10740	Issue Construction Drawings	0		07-Apr-08*				◆ Issue Construction Drawings, 07-Apr-08*
108	Site Clearance	20	07-May-08	04-Jun-08				□ Site Clearance
182	Foundations	15	05-Jun-08	25-Jun-08				□ Foundations
217	Reinforced Earth Wall	130	19-Jun-08	19-Dec-08				□ Reinforced Earth Wall
418	Coping	15	05-Jan-09	23-Jan-09				□ Coping
428	Handrail	10	26-Jan-09	06-Feb-09				□ Handrail
440	Steps	85	05-Jun-09	05-May-09				□ Steps
Trackwork (470m)		291	24-Jul-08	16-Sep-09				✓ 16-Sep-09; Trackwork (470m)
10180	Issue Construction Drawings	0		24-Jul-08*				◆ Issue Construction Drawings, 24-Jul-08*
1029	Bulk Excavation - Sub Base	10	25-Jun-09	08-Jul-09				□ Bulk Excavation - Sub Base
1039	OLE Foundations - Drainage	10	09-Jul-09	05-Aug-09				□ OLE Foundations - Drainage
1049	CBM Ducts	5	06-Aug-09	12-Aug-09				□ CBM Ducts
1050	Track Laying	10	13-Aug-09	26-Aug-09				□ Track Laying
253	Track Finishes	5	27-Aug-09	02-Sep-09				□ Track Finishes
540	Fencing	10	03-Sep-09	16-Sep-09				□ Fencing
Murrayfield Tram Stop		730	28-Sep-07	13-Aug-10				✓ 13-Aug-10; Murrayfield Tram Stop
10460	Issue Construction Drawings	0		28-Sep-07*				◆ Issue Construction Drawings, 28-Sep-07*
105	Civil Engineering and Building Works	65	13-Aug-09	11-Nov-09				□ Civil Engineering and Building Works
228	Order REC Supply	0	10-Sep-09				◆ Order REC Supply	
A2030	Deliver and Install Shelter	10	22-Oct-09	05-Nov-09				□ Deliver and Install Shelter
A5078	Access for visual inspection for E&M Tram Stop installation (05A Murrayfield)	0	06-Oct-09				◆ Access for visual inspection for E&M Tram Stop installation (05A Murrayfield)	
A5079	Access for E&M Tram Stop installation (05A Murrayfield)	0	05-Nov-09				◆ Access for E&M Tram Stop installation (05A Murrayfield)	
A5080	Install LV Power Supply and LV Power Equipment	25	05-Nov-09	11-Dec-09				□ Install LV Power Supply and LV Power Equipment
A5090	Install Telecom Equipment	20	11-Dec-09	22-Jan-10				□ Install Telecom Equipment
A5100	Install Station Control Equipment + AFC Equipment	25	11-Dec-09	29-Jan-10				□ Install Station Control Equipment + AFC Equipment
A5110	Package Test Tramstop	5	29-Jan-10	05-Feb-10				□ Package Test Tramstop
A6270	Installation of SIG-interlocking cubicle	15	19-Nov-09	10-Dec-09				□ Installation of SIG-interlocking cubicle
A6280	Commissioning of SIG-interlocking cubicle	5	09-Aug-10	13-Aug-10				□ Commissioning of SIG-interlocking cubicle
Murrayfield (exc.) to Belmont Road (inc.)		704	28-Sep-07	05-Jul-10				✓ 12-Jun-10; Murrayfield (exc.) to Belmont Road (inc.)
Roseburn Street Viaduct (S21A)		470	05-Mar-08	12-Jan-10				✓ 12-Jan-10; Roseburn Street Viaduct (S21A)
10750	Issue Construction Drawings	0		05-Mar-08*				◆ Issue Construction Drawings, 05-Mar-08*

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			OND	JFMAMJJASOND	JFMAMJJASOND	JFMAMJJASOND	JFMAMJJASOND	
10751	Remove Scotrail Oil Tanks	0	29-Aug-08*					
109	Bankseal at Grid line A	25-25-Nov-08	13-Jan-09					
172	Pier B	45	25-Nov-08	07-Apr-09				
207	Pier C	45	10-Dec-08	22-Apr-09				
398	Pier D	45	07-Jan-09	07-May-09				
408	Pier E	45	21-Jan-09	21-May-09				
420	Bankseal at Gridline F	25	16-Apr-09	21-May-09				
430	Structural steelwork	30	30-Apr-09	12-Jun-09				
729	Deck Concrete	65	15-Jun-09	14-Sep-09				
739	Finishes	75	15-Sep-09	12-Jan-10				
Murrayfield Retaining Walls (S21B)								
10700	Issue Construction Drawings	0	31-Mar-08*	13-Jan-09				
10760	Murrayfield Stadium Accommodation Works	60	02-Jun-08*	25-Aug-08				
110	Site Clearance	20	02-Jun-08	27-Jun-08				
197	Demolition	10	16-Jun-08	27-Jun-08				
378	Foundations	15	30-Jun-08	18-Jul-08				
388	Reinforced Earth Wall	95	14-Jul-08	24-Nov-08				
400	Coping	15	25-Nov-08	16-Dec-08				
410	Handrail	10	17-Dec-08	13-Jan-09				
Murrayfield Stadium Underpass (S21C)								
10720	Issue Construction Drawings	0	19-May-08*	19-Nov-08				
112	Site Clearance	10	18-Jun-08	01-Jul-08				
187	Temporary Works - Demolition	20	02-Jul-08	29-Jul-08				
350	Earthworks	10	30-Jul-08	13-Aug-08				
368	Base	10	14-Aug-08	27-Aug-08				
380	Walls	20	28-Aug-08	24-Sep-08				
390	Roof	20	25-Sep-08	22-Oct-08				
709	Parapet Walls	15	16-Oct-08	05-Nov-08				
719	Finishes	10	06-Nov-08	19-Nov-08				
Murrayfield Retaining Walls (S21D)								
10730	Issue Construction Drawings	0	25-Jul-08*	23-Jun-09				
111	Site Clearance	10	03-Nov-08	19-Nov-08				
438	Foundations	15	20-Nov-08	11-Dec-08				
448	Reinforced Earth Wall	65	05-Dec-08	10-May-09				
450	Coping	15	19-May-09	09-Jun-09				
460	Handrail	10	10-Jun-09	23-Jun-09				
Water of Leith Bridge (S21E)								
10770	Issue Construction Drawings	0	19-May-08*					
113	Leaf Pier	84	19-May-09	15-Sep-09				
639	End Supports	10	16-Sep-09	09-Oct-09				
649	Superstructure	59	12-Oct-09	15-Jan-10				
Baird Drive Retaining Walls (W8)								
10690	Issue Construction Drawings	0	21-Jul-08	07-Jan-09				
114	Site Clearance	10	20-Aug-08	02-Sep-09				
458	Foundations	15	03-Sep-09	23-Sep-09				
468	Reinforced Earth Wall	45	17-Sep-09	10-Nov-09				
470	Coping	15	19-Nov-09	10-Dec-09				
480	Handrail	10	11-Dec-09	07-Jan-09				
Balgreen Road Bridge (S22) and Retaining Walls (W9)								
10710	Issue Construction Drawings	0	16-Aug-08*					
115	New Structure (Preliminary Details Only) (dummy)	215	10-Mar-09	25-Jan-10				
Trackwork (1005m)								
10080	Issue Construction Drawings	574	03-Apr-08	08-Jul-10				
1009	Bulk Excavation - Sub Base	18	26-Jan-10	18-Feb-10				
1019	OLE Foundations - Drainage	40	19-Feb-10	16-Apr-10				

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011																			
		ON	D	J	F	M	A	M	J	J	A	S	O	ON	D	J	F	M	A	M	J	J	A	S	O	ON	
	37 Steel fixing																										
	7 Concrete																										
	87 Shuttering																										
	Abutment Wall																										
	128 Shutter front face																										
	28 Concrete																										
	38 Shutter rear face																										
	50 Steelfixing																										
	Ballast Wall																										
	A10 Ballast Wall																										
	Wing Walls																										
	69 Backfill																										
	A14060 Wing Walls																										
	A14070 Parapet Beams																										
	A14080 Backfill																										
	A14090 Wing Walls																										
	South Abutment																										
	Excavate and Blind																										
	116 Blinding																										
	205 Temporary Support to Railway Lines																										
	236 Excavate																										
	Base Construction																										
	177 Steel fixing																										
	237 Shuttering																										
	97 Concrete																										
	Abutment Wall																										
	698 Concrete																										
	698 Shutter rear face																										
	708 Steelfixing																										
	718 Shutter front face																										
	A14010 Strike Shutters and Cure																										
	Ballast Wall																										
	A14050 Ballast Wall																										
	Wing Walls																										
	69 Backfill																										
	A1012 Backfill																										
	A1015 Wing Walls																										
	A14100 Wing Walls																										
	A14110 Parapet Beams																										
	Superstructure																										
	Reinforced Concrete Deck																										
	104 Permanent Formwork																										
	246 Deck Shuttering																										
	247 Concrete Deck																										
	257 Concrete Parapet Beam																										
	27 Concrete Diaphragms																										
	285 Deck Reinforcement																										
	Deck Finishes																										
	59 Expansion Joints																										
	70 Parapet Rails																										
	728 Waterproofing (inc. deck curing)																										
	80 Walkway Construction																										
	Pre cast Concrete Beams																										
	193 Erect Crash Deck																										
	32 Bearings																										

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N					
A2230	Deliver and Install Shelter		10 25-Jun-09	09-Jul-09				
A5198	Access for visual inspection for E&M Tram Stop installation (050 South Gyle)		0 09-Jun-09					
A5199	Access for E&M Tram Stop installation (050 South Gyle)		0 09-Jul-09					
A5200	Install LV Power Supply and LV Power Equipment		25 09-Jul-09	14-Aug-09				
A5210	Install Telecom Equipment		20 14-Aug-09	11-Sep-09				
A5220	Install Station Control Equipment + AFC Equipment		25 14-Aug-09	10-Sep-09				
A5230	Package Test Tramstop		5 18-Sep-09	25-Sep-09				
South Gyle Access Bridge (S26)		158 27-Mar-08		07-Nov-09				
12880	Issue Construction Drawings		0	27-Mar-08*				
150	Substructure		03 25-Apr-09	22-Aug-09				
270	Superstructure		55 25-Aug-09	07-Nov-09				
Trackwork (1260m)		241 30-Jun-08		11-Jun-09				
12890	Issue Construction Drawings		0	30-Jun-08*				
223	Bulk Excavation - Subbase		8 10-Nov-08	19-Nov-08				
510	OLE Foundations - Drainage		25 20-Nov-08	08-Jan-09				
909	CBM - Ducts		25 09-Jan-09	12-Feb-09				
919	Track laying		25 13-Feb-09	20-Mar-09				
929	Track Finishes		31 23-Mar-09	06-May-09				
939	Fencing		25 07-May-09	11-Jun-09				
South Gyle Access (exc.) to Edinburgh Park Station (inc.)		342 30-Jun-08		03-Nov-09				
Trackwork (790m)		137 30-Jun-08		15-Jan-09				
12900	Issue Construction Drawings		0	30-Jun-08*				
213	Bulk Excavation - Subbase		15 29-Jul-08	19-Aug-08				
500	OLE Foundations - Drainage		32 20-Aug-08	02-Oct-08				
859	CBM - Ducts		10 03-Oct-08	16-Oct-08				
879	Track laying		15 17-Oct-08	07-Nov-08				
889	Track Finishes		22 10-Nov-08	10-Dec-08				
899	Fencing		15 11-Dec-08	15-Jan-09				
Edinburgh Park Station Tram Stop		342 30-Jun-08		03-Nov-09				
12910	Issue Construction Drawings		0	30-Jun-08*				
132	Civil Engineering and Builderworks		65 10-Nov-08	23-Feb-09				
278	Order REC Supply		0 26-Jan-09					
A2140	Deliver and Install Shelter		10 09-Mar-09	23-Mar-09				
A5238	Access for visual inspection for E&M Tram Stop installation (050 Edinburgh Park St)		0 19-Feb-09					
A5239	Access for E&M Tram Stop installation (050 Edinburgh Park Station)		0 23-Mar-09					
A5240	Install LV Power Supply and LV Power Equipment		25 23-Mar-09	28-Apr-09				
A5250	Install Telecom Equipment		28 28-Apr-09	28-May-09				
A5260	Install Station Control Equipment + AFC Equipment		25 20-Apr-09	04-Jun-09				
A5270	Package Test Tramstop		5 04-Jun-09	11-Jun-09				
A6290	Installation of SIG-interlocking cubicle		15 05-Apr-09	27-Apr-09				
A6300	Commissioning of SIG-interlocking cubicle		5 28-Oct-09	03-Nov-09				
Edinburgh Park Station (exc.) to Edinburgh Park (inc.)		330 30-Jun-08		30-Oct-09				
Edinburgh Park Tram Stop		339 30-Jun-08		30-Oct-09				
12920	Issue Construction Drawings		0	30-Jun-08*				
166	Civil Engineering and Building Works		65 04-Jun-09	04-Sep-09				
268	Order REC Supply		0 18-Jun-09					
A2110	Deliver and Install Shelter		10 30-Jul-09	14-Aug-09				
A5278	Access for visual inspection for E&M Tram Stop installation (050 Edinburgh Park)		0 15-Jul-09					
A5279	Access for E&M Tram Stop installation (050 Edinburgh Park)		0 14-Aug-09					
A5280	Install LV Power Supply and LV Power Equipment		25 14-Aug-09	10-Sep-09				
A5290	Install Telecom Equipment		20 10-Sep-09	16-Oct-09				
A5300	Install Station Control Equipment + AFC Equipment		25 11-Sep-09	23-Oct-09				
A5310	Package Test Tramstop		5 23-Oct-09	30-Oct-09				
Trackwork (854m)		264 30-Jun-08		16-Jul-09				
12930	Issue Construction Drawings		0	30-Jun-08*				

Activity ID	Activity Name	Duration												Finish													
		O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	-
559	Shuttering	5	02-Sep-08	08-Sep-08																							2011
783	Shuttering	4	21-Aug-08	01-Sep-08																							
Pier 1	Columns	45	06-Oct-08	09-Oct-08																							
202	Steel fixing	9	29-Sep-08	09-Oct-08																							
303	Shuttering	5	29-Sep-08	03-Oct-08																							
393.	(Concrete)	4	06-Oct-08	09-Oct-08																							
Base Construction		7	11-Aug-08	19-Aug-08																							
591	Steel fixing	6	11-Aug-08	15-Aug-08																							
201	Shuttering	4	13-Aug-08	18-Aug-08																							
81	Concrete	1	19-Aug-08	19-Aug-08																							
Excavation and Blinding		3	06-Aug-08	05-Aug-08																							
350	Excavation	2	06-Aug-08	01-Aug-08																							
800	Blinding	1	08-Aug-08	08-Aug-08																							
Pier 2	Excavation and Blinding	48	11-Aug-08	16-Oct-08																							
120	Excavation	3	11-Aug-08	13-Aug-08																							
200	Blinding	2	11-Aug-08	12-Aug-08																							
Base Construction		1	13-Aug-08	13-Aug-08																							
241	Concrete	7	18-Aug-08	26-Aug-08																							
251	Steel fixing	1	25-Aug-08	26-Aug-08																							
261	Shuttering	5	1B-Aug-08	22-Aug-08																							
Columns		4	20-Aug-08	25-Aug-08																							
272	Steel fixing	9	08-Oct-08	16-Oct-08																							
403	Shuttering	5	05-Oct-08	10-Oct-08																							
413	Concrete	4	13-Oct-08	16-Oct-08																							
Pier 3	Excavation and Blinding	50	14-Aug-08	23-Oct-08																							
810	Blinding	3	14-Aug-08	18-Aug-08																							
820	Excavation	1	18-Aug-08	18-Aug-08																							
Base Construction		2	19-Aug-08	15-Aug-08																							
211	Concrete	6	25-Aug-08	02-Sep-08																							
221	Steel fixing	1	02-Sep-08	02-Sep-08																							
231	Shuttering	5	25-Aug-08	29-Aug-08																							
Columns		4	27-Aug-08	23-Oct-08																							
222	Steel fixing	9	13-Oct-08	17-Oct-08																							
A103	Shuttering	5	13-Oct-08	17-Oct-08																							
A113	Concrete	4	20-Oct-08	23-Oct-08																							
Pier 4	Excavation and Blinding	52	19-Aug-08	30-Oct-08																							
850	Excavation	3	19-Aug-08	21-Aug-08																							
860	Blinding	1	21-Aug-08	21-Aug-08																							
Base Construction		9	01-Sep-08	09-Sep-08																							
331	Concrete	1	09-Sep-08	09-Sep-08																							
341	Steel fixing	5	01-Sep-08	05-Sep-08																							
351	Shuttering	4	03-Sep-08	08-Sep-08																							
Columns		9	20-Oct-08	30-Oct-08																							
242	Steel fixing	5	20-Oct-08	24-Oct-08																							
A123	Shuttering	4	27-Oct-08	30-Oct-08																							
A123	Concrete	4	27-Oct-08	30-Oct-08																							
Pier 5	Excavation and Blinding	65	06-Aug-08	06-Nov-08																							
230	Excavation	3	06-Aug-08	08-Aug-08																							
840	Blinding	2	07-Aug-08	16-Aug-08																							
Base Construction		7	08-Sep-08	16-Sep-08																							

Activity ID	Activity Name	Original Duration	Start	Finish	2008	2009	2010	2011
			O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N					
160	Temporary Access Roads-Divert Flows-Bulk Excavation	19	14-Aug-08	09-Sep-08				
249	Precast Culvert Units	5	10-Sep-08	16-Sep-08				
259	Reinforced Concrete Apron and Wingwalls	20	17-Sep-08	14-Oct-08				
269	Backfill and Finishes	11	15-Oct-08	29-Oct-08				
Trackwork (1750m)					321	01-Aug-08	05-Nov-09	
13060	Issue Construction Drawings	0		01-Aug-08*				
162	Bulk Excavation	22	15-Jan-09	13-Feb-09				
399	Drainage and OLE Foundations	35	16-Feb-09	03-Apr-09				
409	Track Foundations and Duds	50	06-Apr-09	29-Jun-09				
419	Track Laying	35	30-Jun-09	18-Aug-09				
A1990	Track Finishes And Electrification Standards	22	19-Aug-09	17-Sep-09				
A2020	Fencing and Reinstatements	35	10-Sep-09	05-Nov-09				
Inglisdon Park and Ride Train Stop					466	06-May-08	12-Mar-10	
13070	Issue Construction Drawings	0		06-May-08*				
163	Civil Engineering and Building Works	65	07-Jul-09	06-Oct-09				
218	Order REC Supply	0	15-Oct-09					
A1940	Deliver and Install Shelter	10	26-Nov-09	11-Dec-09				
A5398	Access for visual inspection for E&M Tram Stop installation (O/A Inglisdon Park+Rd)	0	11-Nov-09					
A5399	Access for E&M Tram Stop installation (O/A Inglisdon Park+Ride)	0	11-Dec-09					
A5400	Install LV Power Supply and LV Power Equipment	25	11-Dec-09	29-Jan-10				
A5410	Install Telecom Equipment	20	29-Jan-10	26-Feb-10				
A5420	Install Station Control Equipment + AFC Equipment	25	29-Jan-10	05-Mar-10				
A5430	Package Test Tramstop	5	05-Mar-10	12-Mar-10				
Inglisdon Park and Ride Substation					138	01-May-09	13-Nov-09	
210	Order REC supply from Scottish Power	0	01-May-09					
226	Civil Engineering and Building Works	65	26-May-09	25-Aug-09				
A1958	Access for visual inspection for E&M Substation installation (O/A Inglisdon Park and Ride)	0	27-Jul-09					
A1959	Access for E&M Substation installation (O/A Inglisdon Park and Ride)	0	26-Aug-09					
A5900	Power Infeed from Public Net available inc HV cable	0	26-Aug-09					
A5990	Install LV Power Supply and LV Power Equipment	15	26-Aug-09	15-Sep-09				
A6000	Installation of TPS Equipment	30	15-Sep-09	26-Oct-09				
A6010	Install Telecom and Scada	15	06-Oct-09	26-Oct-09				
A6020	Testing and Commissioning	14	27-Oct-09	13-Nov-09				
Enabling Works					29	29-Feb-08	09-Apr-08	
A2000	Site and Vegetation Clearance	28	29-Feb-08	09-Apr-08				
Tram					14	16-Jan-10	04-Feb-10	
A6380	Track Testing of Tram	20	16-Jan-10	04-Feb-10				
Inglisdon Park & Ride (exc.) to Edinburgh Airport (inc.)					542	29-Feb-08	18-Apr-10	
Enabling Works					29	29-Feb-08	09-Apr-08	
A1920	Construct New Hotel Car Park	20	29-Feb-08	28-Mar-08				
A1930	Site and Vegetation Clearance	28	29-Feb-08	09-Apr-08				
Gogarburn Retaining Wall (W14)					105	18-Aug-08	20-Jan-09	
13080	Issue Construction Drawings	0		18-Aug-08*				
167	Gogarburn Retaining Wall (W14)	80	16-Sep-08	20-Jan-09				
Gogarburn Culvert No2 (S31)					95	15-Jul-08	26-Nov-08	
13090	Issue Construction Drawings	0		15-Jul-08*				
165	Divert Flows-Bulk Excavation	7	10-Sep-08	18-Sep-08				
309	Precast Culvert Units	5	19-Sep-08	25-Sep-08				
319	Reinforced Concrete Apron and Wingwalls	20	15-Oct-08	11-Nov-08				
329	Backfill and Finishes	11	12-Nov-08	26-Nov-08				
Gogarburn Culvert No3 (S34)					143	13-Jun-08	08-Jan-09	
13100	Issue Construction Drawings	0		13-Jun-08*				
196	Divert Flows-Bulk Excavation	6	19-Sep-08	26-Sep-08				
279	Precast Culvert Units	5	29-Sep-08	03-Oct-08				
269	Reinforced Concrete Apron and Wingwalls	20	12-Nov-08	10-Dec-08				
09-Apr-08, Enabling Works					542	29-Feb-08	18-Apr-10	
Construct New Hotel Car Park								
Site and Vegetation Clearance								
20-Jan-09, Gogarburn Retaining Wall (W14)								
Issue Construction Drawings, 18-Aug-08*								
Gogarburn Retaining Wall (W14)								
26-Nov-08, Gogarburn Culvert No2 (S31)								
Issue Construction Drawings, 15-Jul-08*								
Divert Flows-Bulk Excavation								
Precast Culvert Units								
Reinforced Concrete Apron and Wingwalls								
Backfill and Finishes								
08-Jan-09, Gogarburn Culvert No3 (S34)								
Issue Construction Drawings, 13-Jun-08*								
Divert Flows-Bulk Excavation								
Precast Culvert Units								
Reinforced Concrete Apron and Wingwalls								

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APPENDIX B4

Tom Hickman

From: STEPHEN SHARP [ssharp@programmingsolutions.co.uk]
Sent: 13 December 2007 16:59
To: Tom Hickman; Scott.McFadzen@bilfinger.co.uk; UK MB INFRACO
Cc: Susan Clark; Geoff Gilbert; Bob Dawson; Steven Bell
Subject: RE: INFRACO Programme with finish dates

Tom

Our response using your enumeration is as follows:

1. I can confirm that the programme is based on V22 of the SDS design programme (however please also see the notes in the "Programme Assumptions" document that was forwarded with the submission).

2. If the Tower Place / Victoria Dock Access Bridge restraints are removed the completion date for 1A (and 1a) will come sooner. To be able to achieve a March 2011 completion section 1A will need reprogramming to accelerate these works (because of the late release of construction issue drawings) and some simplification of the design (which we believe will occur) over that which the current drawings show. The alternative programme (1A assumptions) forwarded to you at the beginning of last week attempted to illustrate what could be achieved.

3. Confirmed.

4. The programme assumes the embargo to be lifted for Catenary works in Picardy Place in August 2010 to achieve an end of February 2011 completion for sub section 1C. If the embargo is not lifted this date then becomes the end of March 2011.

5. I am sorry, but I do not understand this point.

6. This programme is our latest revision and supersedes previous issues. As you are aware this programme is driven by SDS issue for construction dates, MUDFA and some remaining junction constraints. If the combination of these constraints were not as severe, as was the case in our previous submissions, earlier completion dates would be achieved.

I hope the above is clear and adequately answers the points you have raised.

Best Regards, Steve

From: Tom Hickman [mailto:Tom.Hickman@tie.ltd.uk]
Sent: Thu 13/12/2007 14:51
To: STEPHEN SHARP; Scott.McFadzen@bilfinger.co.uk; UK MB INFRACO
Cc: Susan Clark; Geoff Gilbert; Bob Dawson; Steven Bell
Subject: INFRACO Programme with finish dates

Steve,

Thanks for the quick response.

Can I ask you or Scott to urgently confirm that the programme submitted 12th December that shows an Open for Revenue Service date of 8th August 2011 for line 1a is based on the following:

-----Original Message-----

From: STEPHEN SHARP [mailto:ssharp@programmingsolutions.co.uk]
Sent: 13 December 2007 12:13
To: Tom Hickman
Cc: Scott.Mcfadzen@bilfinger.de
Subject: INFRACO Programme with finish dates

Tom

Please find new PDF of this weeks submission as requested. Sorry I did not notice that the finish dates run off the edge of the PDF. I have added a finish date column to make it easy.

Best Regards, Steve Sharp.

Construction Programming Solutions Ltd.

Tel: [REDACTED]

Mobile: [REDACTED]

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APPENDIX B5

Geoff Gilbert

From: AMANDA FLYNN [amanda.flynn2@██████████]
Sent: 12 December 2007 21:19
To: Geoff Gilbert
Cc: Flynn, Michael (Siemens TS)
Subject: the joys of computers....message from michael flynn

Geoff,

Below are the various comments/words we discussed on the phone.

Third Party agreements: I will provide some simple words for discussion - Proposed words

'BBS will deliver the scope in accordance with the agreed employer requirements and the obligations under the third party agreements set out in schedule 13. BBS will take the necessary steps in the construction of the scope so that CEC will not be put in breach of their obligations under the third party agreements to the extent such obligations are identified in schedule 13. In the event that the employer requirements and the third party agreements are in conflict, the employer requirements and schedule 13 will take precedence in regards BBS obligations...'

or

Infraco will carry out and complete the Infraco Works in accordance with the Agreement and will at all times use reasonable endeavours to avoid causing tie and/or CEC to become in breach of their obligations under any Third Party Agreements in so far as such 3rd Party obligation was disclosed to Infraco prior to the Effective Date.

In the event that the carrying out and completing the Infraco Works is rendered more expensive and/or time consuming in order that Infraco do not cause tie and/or CEC to be in breach of their obligations under any Third Party Agreements then the additional expense and/or time shall be treated as a tie Change under Clause 80, provided that Infraco shall take all resonable steps to mitigate such additional expense and/or time.

Collateral warranties: - in the circumstances where our Subcontractor offers a CW which does not match tie's required wording tie would relax their requirement in this respect to allow the use of the CW provided by the Subcontractor is alraedy covered in Clause 28. The issue remaining is the requirement for the Infraco to provide a collateral warranty in respect of the subcontract works element, where the subcontract is unable/unwilling to provide one. This requirement seems superfluous in the context that Infraco have already provided CW's for the whole of the works. It also needs to be made clear that any indemnities within the CW's form are part of the Infraco Liability CAP.

Operator change (clause 17.6): Suzanne has sent drafting to DLA on 10th December. They need to respond with a mark-up reflecting tie's position that they do not have to notify Infraco of every change. This is acceptable subject to the protection that any change which subsequently affects Infraco will be comeepnsated for by tie