

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

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. *Employer's Requirements shall prevail*
- 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.

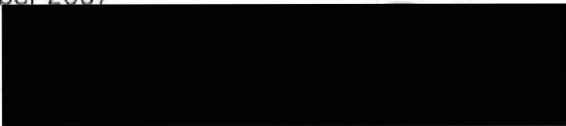
3.12 In all other respects the conditions of the Preferred Bidder Agreement apply.

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 GAWAGHER

EXECUTED for and on behalf of BBS

on the 20th December 2007

Authorised signatory: [Redacted]

Full name: *RJ [Redacted]* *Director BBS*

Authorised Signatory: [Redacted]

Full Name *S. [Redacted]* *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

ie Limited

Citypoint

65 Haymarket Terrace

Edinburgh EH12 5HD

tel

mo

20/12/2007

CEC01123856_0008

**Edinburgh TRAM Project
(Commercial In Confidence)**

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
 - o TROs for the permanent scheme
 - o TTROs to enable the scheme to be constructed, with BBS support (tie have already applied for blanket TTRO's)
 - o 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]

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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

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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
Planning	Listed Building Consent	CEC Planning Authority	
	Prior Approval	CEC Planning Authority	
	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	
Environment Ecological	Badger Licence	Scottish Natural Heritage	Environmental Team
	Otter holt/disturbance licence	Scottish Natural Heritage	
	Bat Licence	Scottish Natural Heritage	
	Appropriate Assessment	Competent Authority	
Drainage CAR	CAR General Binding Rules	SEPA	
	CAR Registration	SEPA	
	CAR License	SEPA	
	Water/ Wastewater Connection	Scottish Water	
Construction	Technical Approval	CEC Bridges/ CEC Roads	
	Building Warrant	CEC Building Standards	
Radio	OFCOM license	OFCOM	
Design Consultation	Third Party Design Consultation		
Undertakings	Undertakings to Parliament	n/a	Undertakings and Agreements to Parliament and with 3rd parties that must be met
Agreements	Agreements with 3rd Parties	n/a	
Letter of Comfort	Letter of comfort	n/a	
Letter of Closure	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

CEC01123856_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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20/12/2007

CEC01123856_0016

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

CEC01123856_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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Sent: Fri 12/7/2007 4:51 PM
To: Alastair Richards - TEL
Subject: Employer's Requirements - 3.03 (draft) - Maintenance Section

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Have a great weekend.
With kind regards,

Glen

Glen Aitken
Engineering Project Administrator

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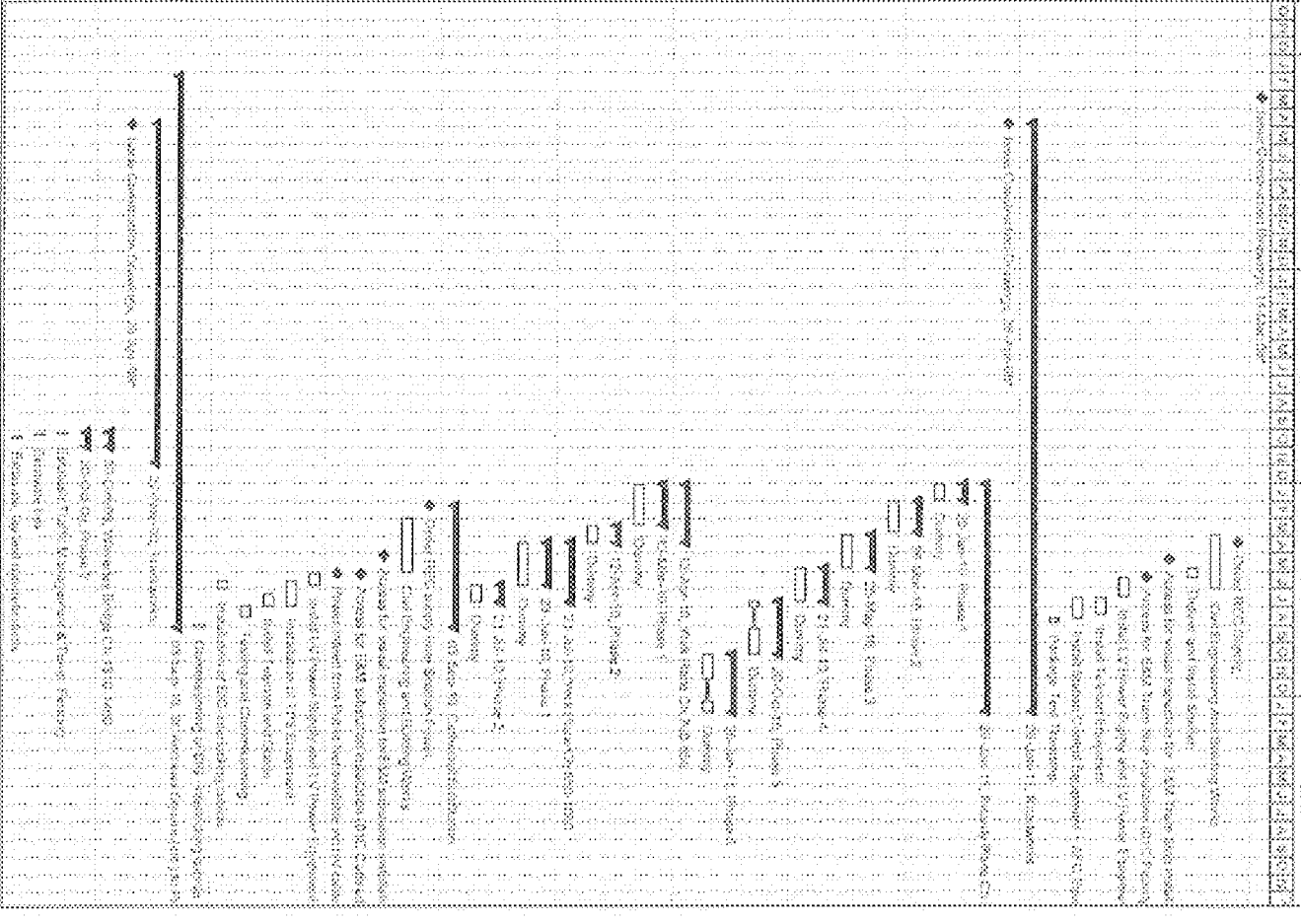
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APPENDIX B3

Activity Name	Original	Start	Finish
23000	23	17 Dec 08	28 Dec 08
23100	24	20 Feb 09	28 Feb 09
23200	25	23 Mar 09	23 Mar 09
23300	26	23 Mar 09	23 Mar 09
23400	27	23 Mar 09	23 Mar 09
23500	28	23 Mar 09	23 Mar 09
23600	29	23 Mar 09	23 Mar 09
23700	30	23 Mar 09	23 Mar 09
23800	31	23 Mar 09	23 Mar 09
23900	32	23 Mar 09	23 Mar 09
24000	33	23 Mar 09	23 Mar 09
24100	34	23 Mar 09	23 Mar 09
24200	35	23 Mar 09	23 Mar 09
24300	36	23 Mar 09	23 Mar 09
24400	37	23 Mar 09	23 Mar 09
24500	38	23 Mar 09	23 Mar 09
24600	39	23 Mar 09	23 Mar 09
24700	40	23 Mar 09	23 Mar 09
24800	41	23 Mar 09	23 Mar 09
24900	42	23 Mar 09	23 Mar 09
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31300	106	23 Mar 09	23 Mar 09
31400	107	23 Mar 09	23 Mar 09
31500	108	23 Mar 09	23 Mar 09
31600	109	23 Mar 09	23 Mar 09
31700	110	23 Mar 09	23 Mar 09
31800	111	23 Mar 09	23 Mar 09
31900	112	23 Mar 09	23 Mar 09
32000	113	23 Mar 09	23 Mar 09
32100	114	23 Mar 09	23 Mar 09
32200	115	23 Mar 09	23 Mar 09
32300	116	23 Mar 09	23 Mar 09
32400	117	23 Mar 09	23 Mar 09
32500	118	23 Mar 09	23 Mar 09
32600	119	23 Mar 09	23 Mar 09
32700	120	23 Mar 09	23 Mar 09
32800	121	23 Mar 09	23 Mar 09
32900	122	23 Mar 09	23 Mar 09
33000	123	23 Mar 09	23 Mar 09
33100	124	23 Mar 09	23 Mar 09
33200	125	23 Mar 09	23 Mar 09
33300	126	23 Mar 09	23 Mar 09
33400	127	23 Mar 09	23 Mar 09
33500	128	23 Mar 09	23 Mar 09
33600	129	23 Mar 09	23 Mar 09
33700	130	23 Mar 09	23 Mar 09
33800	131	23 Mar 09	23 Mar 09
33900	132	23 Mar 09	23 Mar 09
34000	133	23 Mar 09	23 Mar 09
34100	134	23 Mar 09	23 Mar 09
34200	135	23 Mar 09	23 Mar 09
34300	136	23 Mar 09	23 Mar 09
34400	137	23 Mar 09	23 Mar 09
34500	138	23 Mar 09	23 Mar 09
34600	139	23 Mar 09	23 Mar 09
34700	140	23 Mar 09	23 Mar 09
34800	141	23 Mar 09	23 Mar 09
34900	142	23 Mar 09	23 Mar 09
35000	143	23 Mar 09	23 Mar 09
35100	144	23 Mar 09	23 Mar 09
35200	145	23 Mar 09	23 Mar 09
35300	146	23 Mar 09	23 Mar 09
35400	147	23 Mar 09	23 Mar 09
35500	148	23 Mar 09	23 Mar 09
35600	149	23 Mar 09	23 Mar 09
35700	150	23 Mar 09	23 Mar 09
35800	151	23 Mar 09	23 Mar 09
35900	152	23 Mar 09	23 Mar 09
36000	153	23 Mar 09	23 Mar 09
36100	154	23 Mar 09	23 Mar 09
36200	155	23 Mar 09	23 Mar 09
36300	156	23 Mar 09	23 Mar 09
36400	157	23 Mar 09	23 Mar 09
36500	158	23 Mar 09	23 Mar 09
36600	159	23 Mar 09	23 Mar 09
36700	160	23 Mar 09	23 Mar 09
36800	161	23 Mar 09	23 Mar 09
36900	162	23 Mar 09	23 Mar 09
37000	163	23 Mar 09	23 Mar 09
37100	164	23 Mar 09	23 Mar 09
37200	165	23 Mar 09	23 Mar 09
37300	166	23 Mar 09	23 Mar 09
37400	167	23 Mar 09	23 Mar 09
37500	168	23 Mar 09	23 Mar 09
37600	169	23 Mar 09	23 Mar 09
37700	170	23 Mar 09	23 Mar 09
37800	171	23 Mar 09	23 Mar 09
37900	172	23 Mar 09	23 Mar 09
38000	173	23 Mar 09	23 Mar 09
38100	174	23 Mar 09	23 Mar 09
38200	175	23 Mar 09	23 Mar 09
38300	176	23 Mar 09	23 Mar 09
38400	177	23 Mar 09	23 Mar 09
38500	178	23 Mar 09	23 Mar 09
38600	179	23 Mar 09	23 Mar 09
38700	180	23 Mar 09	23 Mar 09
38800	181	23 Mar 09	23 Mar 09
38900	182	23 Mar 09	23 Mar 09
39000	183	23 Mar 09	23 Mar 09
39100	184	23 Mar 09	23 Mar 09
39200	185	23 Mar 09	23 Mar 09
39300	186	23 Mar 09	23 Mar 09
39400	187	23 Mar 09	23 Mar 09
39500	188	23 Mar 09	23 Mar 09
39600	189	23 Mar 09	23 Mar 09
39700	190	23 Mar 09	23 Mar 09
39800	191	23 Mar 09	23 Mar 09
39900	192	23 Mar 09	23 Mar 09
40000	193	23 Mar 09	23 Mar 09

Category	Activity Name	Frequency	Duration	Start	End	Notes
Ketchikan's Environmental Goals 2015-2020	15.1 Staff					
	A10200	Establish Trade Management & Trade Planning	2x 1hr Staff	12/01/15	12/01/15	
	A10201	Resource Use	2x 1hr Staff	12/01/15	12/01/15	
	A10202	Establish Municipal Resource Allocation	3x 1hr Staff	12/01/15	12/01/15	
	A10203	Resource and Economic Use & Status	3x 1hr Staff	12/01/15	12/01/15	
	A10204	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10205	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10206	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10207	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10208	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10209	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10210	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10211	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10212	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10213	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
Ketchikan's Environmental Goals 2015-2020	15.2 Staff					
	A10214	Establish Trade Management & Trade Planning	2x 1hr Staff	12/01/15	12/01/15	
	A10215	Resource Use	2x 1hr Staff	12/01/15	12/01/15	
	A10216	Establish Municipal Resource Allocation	3x 1hr Staff	12/01/15	12/01/15	
	A10217	Resource and Economic Use & Status	3x 1hr Staff	12/01/15	12/01/15	
	A10218	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10219	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10220	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10221	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10222	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10223	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10224	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10225	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	A10226	Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
	Ketchikan's Environmental Goals 2015-2020	15.3 Staff				
A10227		Establish Trade Management & Trade Planning	2x 1hr Staff	12/01/15	12/01/15	
A10228		Resource Use	2x 1hr Staff	12/01/15	12/01/15	
A10229		Establish Municipal Resource Allocation	3x 1hr Staff	12/01/15	12/01/15	
A10230		Resource and Economic Use & Status	3x 1hr Staff	12/01/15	12/01/15	
A10231		Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
A10232		Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
A10233		Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
A10234		Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
A10235		Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
A10236		Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
A10237		Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
A10238		Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	
A10239		Local Market Research and Data	2x 1hr Staff	12/01/15	12/01/15	

Activity Name	Start Number	End Number
Phase 1	12301	12302
Phase 2	12303	12304
Phase 3	12305	12306
Phase 4	12307	12308
Phase 5	12309	12310
Phase 6	12311	12312
Phase 7	12313	12314
Phase 8	12315	12316
Phase 9	12317	12318
Phase 10	12319	12320
Phase 11	12321	12322
Phase 12	12323	12324
Phase 13	12325	12326
Phase 14	12327	12328
Phase 15	12329	12330
Phase 16	12331	12332
Phase 17	12333	12334
Phase 18	12335	12336
Phase 19	12337	12338
Phase 20	12339	12340
Phase 21	12341	12342
Phase 22	12343	12344
Phase 23	12345	12346
Phase 24	12347	12348
Phase 25	12349	12350
Phase 26	12351	12352
Phase 27	12353	12354
Phase 28	12355	12356
Phase 29	12357	12358
Phase 30	12359	12360
Phase 31	12361	12362
Phase 32	12363	12364
Phase 33	12365	12366
Phase 34	12367	12368
Phase 35	12369	12370
Phase 36	12371	12372
Phase 37	12373	12374
Phase 38	12375	12376
Phase 39	12377	12378
Phase 40	12379	12380
Phase 41	12381	12382
Phase 42	12383	12384
Phase 43	12385	12386
Phase 44	12387	12388
Phase 45	12389	12390
Phase 46	12391	12392
Phase 47	12393	12394
Phase 48	12395	12396
Phase 49	12397	12398
Phase 50	12399	12400
Phase 51	12401	12402
Phase 52	12403	12404
Phase 53	12405	12406
Phase 54	12407	12408
Phase 55	12409	12410
Phase 56	12411	12412
Phase 57	12413	12414
Phase 58	12415	12416
Phase 59	12417	12418
Phase 60	12419	12420
Phase 61	12421	12422
Phase 62	12423	12424
Phase 63	12425	12426
Phase 64	12427	12428
Phase 65	12429	12430
Phase 66	12431	12432
Phase 67	12433	12434
Phase 68	12435	12436
Phase 69	12437	12438
Phase 70	12439	12440
Phase 71	12441	12442
Phase 72	12443	12444
Phase 73	12445	12446
Phase 74	12447	12448
Phase 75	12449	12450
Phase 76	12451	12452
Phase 77	12453	12454
Phase 78	12455	12456
Phase 79	12457	12458
Phase 80	12459	12460
Phase 81	12461	12462
Phase 82	12463	12464
Phase 83	12465	12466
Phase 84	12467	12468
Phase 85	12469	12470
Phase 86	12471	12472
Phase 87	12473	12474
Phase 88	12475	12476
Phase 89	12477	12478
Phase 90	12479	12480
Phase 91	12481	12482
Phase 92	12483	12484
Phase 93	12485	12486
Phase 94	12487	12488
Phase 95	12489	12490
Phase 96	12491	12492
Phase 97	12493	12494
Phase 98	12495	12496
Phase 99	12497	12498
Phase 100	12499	12500



Activity ID	Activity Name	Duration	Start	Finish	2028	2029	2030	2031
A0701	Phase 1: Review existing site work items	3	12-Jan-09	14-Feb-09				
A0710	Site Visit	1	14-Feb-09	15-Feb-09				
A0720	Review existing site work items	5	15-Feb-09	21-Mar-09				
A0730	Develop Site Work Plan	2	21-Mar-09	23-Mar-09				
A0740	Phase 2: Review existing site work items	15	23-Mar-09	07-Apr-09				
A0750	Site Visit	1	07-Apr-09	08-Apr-09				
A0760	Review existing site work items	2	08-Apr-09	10-Apr-09				
A0770	Develop Site Work Plan	2	10-Apr-09	12-Apr-09				
A0780	Review existing site work items	2	12-Apr-09	14-Apr-09				
A0790	Develop Site Work Plan	2	14-Apr-09	16-Apr-09				
A0800	Review existing site work items	2	16-Apr-09	18-Apr-09				
A0810	Develop Site Work Plan	2	18-Apr-09	20-Apr-09				
A0820	Review existing site work items	2	20-Apr-09	22-Apr-09				
A0830	Develop Site Work Plan	2	22-Apr-09	24-Apr-09				
A0840	Review existing site work items	2	24-Apr-09	26-Apr-09				
A0850	Develop Site Work Plan	2	26-Apr-09	28-Apr-09				
A0860	Review existing site work items	2	28-Apr-09	30-Apr-09				
A0870	Develop Site Work Plan	2	30-Apr-09	02-May-09				
A0880	Review existing site work items	2	02-May-09	04-May-09				
A0890	Develop Site Work Plan	2	04-May-09	06-May-09				
A0900	Review existing site work items	2	06-May-09	08-May-09				
A0910	Develop Site Work Plan	2	08-May-09	10-May-09				
A0920	Review existing site work items	2	10-May-09	12-May-09				
A0930	Develop Site Work Plan	2	12-May-09	14-May-09				
A0940	Review existing site work items	2	14-May-09	16-May-09				
A0950	Develop Site Work Plan	2	16-May-09	18-May-09				
A0960	Review existing site work items	2	18-May-09	20-May-09				
A0970	Develop Site Work Plan	2	20-May-09	22-May-09				
A0980	Review existing site work items	2	22-May-09	24-May-09				
A0990	Develop Site Work Plan	2	24-May-09	26-May-09				
A1000	Review existing site work items	2	26-May-09	28-May-09				
A1010	Develop Site Work Plan	2	28-May-09	30-May-09				
A1020	Review existing site work items	2	30-May-09	01-Jun-09				
A1030	Develop Site Work Plan	2	01-Jun-09	03-Jun-09				
A1040	Review existing site work items	2	03-Jun-09	05-Jun-09				
A1050	Develop Site Work Plan	2	05-Jun-09	07-Jun-09				
A1060	Review existing site work items	2	07-Jun-09	09-Jun-09				
A1070	Develop Site Work Plan	2	09-Jun-09	11-Jun-09				
A1080	Review existing site work items	2	11-Jun-09	13-Jun-09				
A1090	Develop Site Work Plan	2	13-Jun-09	15-Jun-09				
A1100	Review existing site work items	2	15-Jun-09	17-Jun-09				
A1110	Develop Site Work Plan	2	17-Jun-09	19-Jun-09				
A1120	Review existing site work items	2	19-Jun-09	21-Jun-09				
A1130	Develop Site Work Plan	2	21-Jun-09	23-Jun-09				
A1140	Review existing site work items	2	23-Jun-09	25-Jun-09				
A1150	Develop Site Work Plan	2	25-Jun-09	27-Jun-09				
A1160	Review existing site work items	2	27-Jun-09	29-Jun-09				
A1170	Develop Site Work Plan	2	29-Jun-09	01-Jul-09				
A1180	Review existing site work items	2	01-Jul-09	03-Jul-09				
A1190	Develop Site Work Plan	2	03-Jul-09	05-Jul-09				
A1200	Review existing site work items	2	05-Jul-09	07-Jul-09				
A1210	Develop Site Work Plan	2	07-Jul-09	09-Jul-09				
A1220	Review existing site work items	2	09-Jul-09	11-Jul-09				
A1230	Develop Site Work Plan	2	11-Jul-09	13-Jul-09				
A1240	Review existing site work items	2	13-Jul-09	15-Jul-09				
A1250	Develop Site Work Plan	2	15-Jul-09	17-Jul-09				
A1260	Review existing site work items	2	17-Jul-09	19-Jul-09				
A1270	Develop Site Work Plan	2	19-Jul-09	21-Jul-09				
A1280	Review existing site work items	2	21-Jul-09	23-Jul-09				
A1290	Develop Site Work Plan	2	23-Jul-09	25-Jul-09				
A1300	Review existing site work items	2	25-Jul-09	27-Jul-09				
A1310	Develop Site Work Plan	2	27-Jul-09	29-Jul-09				
A1320	Review existing site work items	2	29-Jul-09	31-Jul-09				
A1330	Develop Site Work Plan	2	31-Jul-09	02-Aug-09				
A1340	Review existing site work items	2	02-Aug-09	04-Aug-09				
A1350	Develop Site Work Plan	2	04-Aug-09	06-Aug-09				
A1360	Review existing site work items	2	06-Aug-09	08-Aug-09				
A1370	Develop Site Work Plan	2	08-Aug-09	10-Aug-09				
A1380	Review existing site work items	2	10-Aug-09	12-Aug-09				
A1390	Develop Site Work Plan	2	12-Aug-09	14-Aug-09				
A1400	Review existing site work items	2	14-Aug-09	16-Aug-09				
A1410	Develop Site Work Plan	2	16-Aug-09	18-Aug-09				
A1420	Review existing site work items	2	18-Aug-09	20-Aug-09				
A1430	Develop Site Work Plan	2	20-Aug-09	22-Aug-09				
A1440	Review existing site work items	2	22-Aug-09	24-Aug-09				
A1450	Develop Site Work Plan	2	24-Aug-09	26-Aug-09				
A1460	Review existing site work items	2	26-Aug-09	28-Aug-09				
A1470	Develop Site Work Plan	2	28-Aug-09	30-Aug-09				
A1480	Review existing site work items	2	30-Aug-09	01-Sep-09				
A1490	Develop Site Work Plan	2	01-Sep-09	03-Sep-09				
A1500	Review existing site work items	2	03-Sep-09	05-Sep-09				
A1510	Develop Site Work Plan	2	05-Sep-09	07-Sep-09				
A1520	Review existing site work items	2	07-Sep-09	09-Sep-09				
A1530	Develop Site Work Plan	2	09-Sep-09	11-Sep-09				
A1540	Review existing site work items	2	11-Sep-09	13-Sep-09				
A1550	Develop Site Work Plan	2	13-Sep-09	15-Sep-09				
A1560	Review existing site work items	2	15-Sep-09	17-Sep-09				
A1570	Develop Site Work Plan	2	17-Sep-09	19-Sep-09				
A1580	Review existing site work items	2	19-Sep-09	21-Sep-09				
A1590	Develop Site Work Plan	2	21-Sep-09	23-Sep-09				
A1600	Review existing site work items	2	23-Sep-09	25-Sep-09				
A1610	Develop Site Work Plan	2	25-Sep-09	27-Sep-09				
A1620	Review existing site work items	2	27-Sep-09	29-Sep-09				
A1630	Develop Site Work Plan	2	29-Sep-09	01-Oct-09				
A1640	Review existing site work items	2	01-Oct-09	03-Oct-09				
A1650	Develop Site Work Plan	2	03-Oct-09	05-Oct-09				
A1660	Review existing site work items	2	05-Oct-09	07-Oct-09				
A1670	Develop Site Work Plan	2	07-Oct-09	09-Oct-09				
A1680	Review existing site work items	2	09-Oct-09	11-Oct-09				
A1690	Develop Site Work Plan	2	11-Oct-09	13-Oct-09				
A1700	Review existing site work items	2	13-Oct-09	15-Oct-09				
A1710	Develop Site Work Plan	2	15-Oct-09	17-Oct-09				
A1720	Review existing site work items	2	17-Oct-09	19-Oct-09				
A1730	Develop Site Work Plan	2	19-Oct-09	21-Oct-09				
A1740	Review existing site work items	2	21-Oct-09	23-Oct-09				
A1750	Develop Site Work Plan	2	23-Oct-09	25-Oct-09				
A1760	Review existing site work items	2	25-Oct-09	27-Oct-09				
A1770	Develop Site Work Plan	2	27-Oct-09	29-Oct-09				
A1780	Review existing site work items	2	29-Oct-09	31-Oct-09				
A1790	Develop Site Work Plan	2	31-Oct-09	02-Nov-09				
A1800	Review existing site work items	2	02-Nov-09	04-Nov-09				
A1810	Develop Site Work Plan	2	04-Nov-09	06-Nov-09				
A1820	Review existing site work items	2	06-Nov-09	08-Nov-09				
A1830	Develop Site Work Plan	2	08-Nov-09	10-Nov-09				
A1840	Review existing site work items	2	10-Nov-09	12-Nov-09				
A1850	Develop Site Work Plan	2	12-Nov-09	14-Nov-09				
A1860	Review existing site work items	2	14-Nov-09	16-Nov-09				
A1870	Develop Site Work Plan	2	16-Nov-09	18-Nov-09				
A1880	Review existing site work items	2	18-Nov-09	20-Nov-09				
A1890	Develop Site Work Plan	2	20-Nov-09	22-Nov-09				
A1900	Review existing site work items	2	22-Nov-09	24-Nov-09				
A1910	Develop Site Work Plan	2	24-Nov-09	26-Nov-09				
A1920	Review existing site work items	2	26-Nov-09	28-Nov-09				
A1930	Develop Site Work Plan	2	28-Nov-09	30-Nov-09				
A1940	Review existing site work items	2	30-Nov-09	02-Dec-09				
A1950	Develop Site Work Plan	2	02-Dec-09	04-Dec-09				
A1960	Review existing site work items	2	04-Dec-09	06-Dec-09				
A1970	Develop Site Work Plan	2	06-Dec-09	08-Dec-09				
A1980	Review existing site work items	2	08-Dec-09	10-Dec-09				
A1990	Develop Site Work Plan	2	10-Dec-09	12-Dec-09				
A2000	Review existing site work items	2	12-Dec-09	14-Dec-09				
A2010	Develop Site Work Plan	2	14-Dec-09	16-Dec-09				
A2020	Review existing site work items	2	16-Dec-09	18-Dec-09				
A2030	Develop Site Work Plan	2	18-Dec-09	20-Dec-09				
A2040	Review existing site work items	2	20-Dec-09	22-Dec-09				
A2050	Develop Site Work Plan	2	22-Dec-09	24-Dec-09				
A2060	Review existing site work items	2	24-Dec-09	26-Dec-09				
A2070	Develop Site Work Plan	2	26-Dec-09	28-Dec-09				
A2080	Review existing site work items	2	28-Dec-09	30-Dec-09				
A2090	Develop Site Work Plan	2	30-Dec-09	01-Jan-10				
A2100	Review existing site work items	2	01-Jan-10	03-Jan-10				
A2110	Develop Site Work Plan	2	03-Jan-10	05-Jan-10				
A2120	Review existing site work items	2	05-Jan-10	07-Jan-10				
A2130	Develop Site Work Plan	2	07-Jan-10	09-Jan-10				
A2140	Review existing site work items	2	09-Jan-10	11-Jan-10				
A2150	Develop Site Work Plan	2	11-Jan-10	13-Jan-10				
A2160	Review existing site work items	2	13-Jan-10	15-Jan-10				
A2170	Develop Site Work Plan	2	15-Jan-10	17-Jan-10				
A2180	Review existing site work items	2	17-Jan-10	19-Jan-10				
A2190	Develop Site Work Plan	2	19-Jan-10	21-Jan-10				
A2200	Review existing site work items	2	21-Jan-10	23-Jan-10				
A2210	Develop Site Work Plan	2	23-Jan-10	25-Jan-10				
A2220	Review existing site work items	2	25-Jan-10	27-Jan-10				
A2230	Develop Site Work Plan	2	27-Jan-10	29-Jan-10				
A2240	Review existing site work items	2	29-Jan-10	31-Jan-10				
A2250	Develop Site Work Plan	2	31-Jan-10	02-Feb-10				

Activity ID	Activity Name	Original Start	Original End	Project	2006	2007	2008	2009	2010	2011
583	Final Program	5/24/06	6/30/06	Final						
584	Final Program	7/1/06	7/31/06	Final						
Fragmented Terrence Substation										
585	Order REC Supply from Quality Power	12/1/06	12/31/06	Order						
586	Order Engineering and Building Plans	1/1/07	1/31/07	Order						
587	Answer for permit application for REC installation (2006) (Fragmented Terrence)	6/1/07	6/30/07	Answer						
588	Answer for REC installation (2006) (Fragmented Terrence)	6/1/07	6/30/07	Answer						
589	Power Picked from Quality Power for installation of REC	6/1/07	6/30/07	Power						
590	Installation of 170S Equipment	6/1/07	6/30/07	Installation						
591	Install Transformer and control	6/1/07	6/30/07	Install						
592	Testing and Commissioning	6/1/07	6/30/07	Testing						
Intermittent Station Team Shop										
593	Issue Construction Drawings	6/1/07	6/30/07	Issue						
594	Final Program and Building Plans	6/1/07	6/30/07	Final						
595	Order REC Supply	6/1/07	6/30/07	Order						
596	Answer for permit application for REC	6/1/07	6/30/07	Answer						
597	Answer for REC installation (2006) (Intermittent Station)	6/1/07	6/30/07	Answer						
598	Power Picked from Quality Power for installation of REC	6/1/07	6/30/07	Power						
599	Installation of 170S Equipment	6/1/07	6/30/07	Installation						
600	Install Transformer and control	6/1/07	6/30/07	Install						
601	Testing and Commissioning	6/1/07	6/30/07	Testing						
SECTION 03 HANMARRET TO GRANTON SQUARE										
Drawing Supplement 1: Equipment, Materials, and Methods										
602	Answer for permit application for REC	6/1/07	6/30/07	Answer						
603	Answer for REC installation (2006) (Hanmarret to Granton Square)	6/1/07	6/30/07	Answer						
604	Power Picked from Quality Power for installation of REC	6/1/07	6/30/07	Power						
605	Installation of 170S Equipment	6/1/07	6/30/07	Installation						
606	Install Transformer and control	6/1/07	6/30/07	Install						
607	Testing and Commissioning	6/1/07	6/30/07	Testing						
Fragmented Terrence Substation										
608	Order REC Supply from Quality Power	12/1/06	12/31/06	Order						
609	Order Engineering and Building Plans	1/1/07	1/31/07	Order						
610	Answer for permit application for REC installation (2006) (Fragmented Terrence)	6/1/07	6/30/07	Answer						
611	Answer for REC installation (2006) (Fragmented Terrence)	6/1/07	6/30/07	Answer						
612	Power Picked from Quality Power for installation of REC	6/1/07	6/30/07	Power						
613	Installation of 170S Equipment	6/1/07	6/30/07	Installation						
614	Install Transformer and control	6/1/07	6/30/07	Install						
615	Testing and Commissioning	6/1/07	6/30/07	Testing						
Intermittent Station Team Shop										
616	Issue Construction Drawings	6/1/07	6/30/07	Issue						
617	Final Program and Building Plans	6/1/07	6/30/07	Final						
618	Order REC Supply	6/1/07	6/30/07	Order						
619	Answer for permit application for REC	6/1/07	6/30/07	Answer						
620	Answer for REC installation (2006) (Intermittent Station)	6/1/07	6/30/07	Answer						
621	Power Picked from Quality Power for installation of REC	6/1/07	6/30/07	Power						
622	Installation of 170S Equipment	6/1/07	6/30/07	Installation						
623	Install Transformer and control	6/1/07	6/30/07	Install						
624	Testing and Commissioning	6/1/07	6/30/07	Testing						

Activity ID	Activity Name	Original Start	Finish
41100	Install Electrical Cables	12/14/10 10:00	12/14/10 12:00
44110	Install Fiber Optic Cables	12/14/10 10:00	12/14/10 12:00
44120	Install Structured Wiring Infrastructure	12/20/10 10:00	12/20/10 12:00
Russell Road Underpass (R20)			
38070	Issue Construction Drawings	09/29/10 08:00	10/13/10 08:00
401	Excavation and Backfill	10/27/10 08:00	10/28/10 08:00
406	Install	10/29/10 08:00	11/01/10 08:00
409	Excavation and Backfill	10/27/10 08:00	10/28/10 08:00
430	Install	10/29/10 08:00	11/01/10 08:00
438	Install	10/29/10 08:00	11/01/10 08:00
Russell Road Retaining Walls (R23 and R24)			
38080	Issue Construction Drawings	09/29/10 08:00	10/13/10 08:00
407	Excavation	10/27/10 08:00	10/28/10 08:00
408	Install Retaining Walls	10/29/10 08:00	11/01/10 08:00
409	Excavation and Backfill	10/27/10 08:00	10/28/10 08:00
430	Install	10/29/10 08:00	11/01/10 08:00
438	Install	10/29/10 08:00	11/01/10 08:00
440	Install	10/29/10 08:00	11/01/10 08:00
Trackwork (T27 and T28)			
38090	Issue Construction Drawings	09/29/10 08:00	10/13/10 08:00
405	Excavation	10/27/10 08:00	10/28/10 08:00
406	Install	10/29/10 08:00	11/01/10 08:00
409	Excavation and Backfill	10/27/10 08:00	10/28/10 08:00
430	Install	10/29/10 08:00	11/01/10 08:00
438	Install	10/29/10 08:00	11/01/10 08:00
440	Install	10/29/10 08:00	11/01/10 08:00
Marionville Train Shop			
38100	Issue Construction Drawings	09/29/10 08:00	10/13/10 08:00
406	Excavation	10/27/10 08:00	10/28/10 08:00
407	Install	10/29/10 08:00	11/01/10 08:00
409	Excavation and Backfill	10/27/10 08:00	10/28/10 08:00
430	Install	10/29/10 08:00	11/01/10 08:00
438	Install	10/29/10 08:00	11/01/10 08:00
440	Install	10/29/10 08:00	11/01/10 08:00
Russell Road Underpass (R21 and R22)			
38110	Issue Construction Drawings	09/29/10 08:00	10/13/10 08:00
406	Excavation	10/27/10 08:00	10/28/10 08:00
407	Install	10/29/10 08:00	11/01/10 08:00
409	Excavation and Backfill	10/27/10 08:00	10/28/10 08:00
430	Install	10/29/10 08:00	11/01/10 08:00
438	Install	10/29/10 08:00	11/01/10 08:00
440	Install	10/29/10 08:00	11/01/10 08:00

Activity Name	Original Start	Original End	Phase
2495 Shallowing	5/22/08	08/08/08	
2496 Deepening	6/27/08	09/09/08	
2497	06/08/08	08/08/08	
Part 1			
Concrete			
2498 Steel Deck	5/29/08	08/08/08	
2499 Shallowing	5/29/08	08/08/08	
2500 Concrete	4/02/08	08/08/08	
Base Construction			
2501 Steel Deck	5/11/08	08/08/08	
2502 Shallowing	4/13/08	08/08/08	
2503 Concrete	1/09/08	08/08/08	
Excavation and Shoring			
2504 Excavation	2/02/08	08/08/08	
2505 Shoring	1/08/08	08/08/08	
Part 2			
Excavation and Shoring			
2506 Excavation	2/11/08	08/08/08	
2507 Shoring	1/03/08	08/08/08	
Base Construction			
2508 Concrete	1/28/08	08/08/08	
2509 Steel Deck	3/18/08	08/08/08	
2510 Shallowing	4/23/08	08/08/08	
Columns			
2511 Steel Deck	4/09/08	08/08/08	
2512 Shallowing	4/14/08	08/08/08	
2513 Concrete	5/01/08	08/08/08	
Part 3			
Excavation and Shoring			
2514 Shoring	1/18/08	08/08/08	
2515 Excavation	2/14/08	08/08/08	
Base Construction			
2516 Concrete	3/02/08	08/08/08	
2517 Concrete	3/02/08	08/08/08	
2518 Steel Deck	3/02/08	08/08/08	
2519 Shallowing	4/27/08	08/08/08	
Columns			
2520 Steel Deck	3/02/08	08/08/08	
2521 Shallowing	4/10/08	08/08/08	
2522 Concrete	4/28/08	08/08/08	
Part 4			
Excavation and Shoring			
2523 Excavation	2/19/08	08/08/08	
2524 Shoring	1/21/08	08/08/08	
Base Construction			
2525 Concrete	1/09/08	08/08/08	
2526 Steel Deck	3/01/08	08/08/08	
2527 Shallowing	4/02/08	08/08/08	
Columns			
2528 Steel Deck	2/24/08	08/08/08	
2529 Shallowing	4/01/08	08/08/08	
2530 Concrete	4/27/08	08/08/08	
Part 5			
Excavation and Shoring			
2531 Excavation	2/05/08	08/08/08	
2532 Shoring	1/08/08	08/08/08	
Base Construction			
2533 Concrete	1/08/08	08/08/08	

Activity ID	Activity Name	Original Duration	Start	Finish	Year
782	Track 1	45	10-Jul-08	10-Sep-08	2008
449	Phase 1	54	19-Sep-08	08-Nov-08	2008
525	Phase 2	35	05-Dec-08	12-Feb-09	2008
536	Phase 4	49	10-May-09	19-Jul-09	2009
540	Utility Coordination	49	13-May-08	30-Sep-08	2008
Signal Access Bridge (SAB)					
12900	Issue Construction Drawings	35	08-Sep-07	28-Oct-07	2007
14A	Assemblies	20	05-Jul-09	24-Jun-10	2009
175	Finalize	28	04-Jul-08	10-Aug-08	2008
578	Final Review	30	07-Jul-09	14-Oct-09	2009
589	Cladding	15	19-Jul-07	30-Oct-07	2007
Trackwork (SRTM)					
8050	Issue Construction Drawings	4	09-May-09	09-May-09	2009
8200	Sub Excavation	11	17-May-08	15-May-08	2008
8300	Overhaul and D/I Foundations	23	17-Nov-09	08-Dec-09	2009
10000	Track Foundations and Sleepers	18	04-Jul-10	29-Jun-11	2010
8700	Track Laying	11	09-Jun-08	19-Jul-08	2008
AF080	Track Fixtures	11	05-Sep-10	01-Nov-10	2010
AJ2800	Painting and Repaintments	11	02-Nov-09	15-Dec-09	2009
All Remaining Work (MMS)					
10010	Issue Construction Drawings	20	28-Sep-07	18-Jan-08	2007
1400	Defining	25	23-Feb-09	15-Jul-09	2009
Trackwork (SRTM)					
13200	Issue Construction Drawings	9	10-May-09	19-Jun-09	2009
840	Sub Excavation	11	09-Jun-08	29-Jul-08	2008
900	Overhaul and D/I Foundations	23	24-Jul-08	24-Jul-08	2008
700	Track Foundations and Sleepers	18	05-Jul-08	21-Aug-08	2008
705	Track Laying	11	29-Aug-08	09-Sep-08	2008
A3000	Track Fixtures	11	03-Sep-08	21-Sep-08	2008
AJ300	Painting and Repaintments	11	29-Sep-08	04-Oct-08	2008
Signaling Trestle Stop					
12000	Issue Construction Drawings	4	01-Nov-09	01-Nov-09	2009
140	Site Engineering and Building Works	16	08-Sep-08	09-Oct-08	2008
300	Order H&M Survey	9	08-Sep-08	19-Sep-08	2008
A3700	Delivery and Installation	18	03-Feb-09	19-Feb-09	2009
A5100	Access for signal equipment for EMU Trestle Stop - installation (S&A Department)	6	15-Jun-08	15-Jun-08	2008
A6300	Access for EMU Trestle Stop installation (S&A Department)	8	10-Jul-09	17-Jul-09	2009
A6300	Install Track Supply and Water Equipment	20	10-Jul-09	27-Aug-09	2009
A6300	Install Track Equipment	20	20-Jul-09	21-Aug-09	2009
A6300	Install Track Equipment	20	20-Jul-09	27-Aug-09	2009
A6300	Install Track Equipment - ATC Equipment	5	26-Jul-08	08-Aug-08	2008
A6300	Relay Test Standby	400	28-Feb-09	14-Nov-09	2009
SECTION 06 SUGAR DEPOT					
Overhaul Equipment Substation (SRTM)					
Trackwork					
Trackwork					
124	Trackwork	10	14-Jul-08	24-Jul-08	2008
Signal Substation					
300	Order H&M Survey	9	12-Aug-08	21-Aug-08	2008
310	Site Engineering and Building Works	20	21-Aug-08	09-Sep-08	2008
A6300	Access for installation for S&A Substation installation (S&A Dept)	30	11-Sep-08	11-Sep-08	2008
A6300	Access for EMU Substation installation (S&A Dept)	30	11-Sep-08	11-Sep-08	2008
A6300	Power cable above trestle stop available for cable	9	13-Sep-08	14-Nov-08	2008

Agency Name	Project Name	Original Start	Year
Edinburgh City Council	22222	15 Jan 08	15 Jan 08
	44444	20 Feb 08	20 Feb 08
	66666	25 Mar 08	25 Mar 08
	88888	30 Apr 08	30 Apr 08
	11111	05 May 08	05 May 08
	33333	10 Jun 08	10 Jun 08
	55555	15 Jul 08	15 Jul 08
	77777	20 Aug 08	20 Aug 08
	99999	25 Sep 08	25 Sep 08
	12121	30 Oct 08	30 Oct 08
Edinburgh City Council	13131	01 Nov 08	01 Nov 08
	14141	02 Dec 08	02 Dec 08
	15151	03 Jan 09	03 Jan 09
	16161	04 Feb 09	04 Feb 09
	17171	05 Mar 09	05 Mar 09
	18181	06 Apr 09	06 Apr 09
	19191	07 May 09	07 May 09
	20202	08 Jun 09	08 Jun 09
	21212	09 Jul 09	09 Jul 09
	22223	10 Aug 09	10 Aug 09

SECTION BY COGAR TO EDINBURGH AIRPORT

Agency Name	Project Name	Original Start	Year
Edinburgh City Council	23232	15 Jan 09	15 Jan 09
	24242	20 Feb 09	20 Feb 09
	25252	25 Mar 09	25 Mar 09
	26262	30 Apr 09	30 Apr 09
	27272	05 May 09	05 May 09
	28282	10 Jun 09	10 Jun 09
	29292	15 Jul 09	15 Jul 09
	30303	20 Aug 09	20 Aug 09
	31313	25 Sep 09	25 Sep 09
	32323	30 Oct 09	30 Oct 09
Edinburgh City Council	33333	01 Nov 09	01 Nov 09
	34343	02 Dec 09	02 Dec 09
	35353	03 Jan 10	03 Jan 10
	36363	04 Feb 10	04 Feb 10
	37373	05 Mar 10	05 Mar 10
	38383	06 Apr 10	06 Apr 10
	39393	07 May 10	07 May 10
	40404	08 Jun 10	08 Jun 10
	41414	09 Jul 10	09 Jul 10
	42424	10 Aug 10	10 Aug 10

Activity ID	Activity Name	Category	Duration	Start Date	End Date	Resources
250	Network Wiring	Electrical and Telecom	17.50 days	27-Jan-16	14-Feb-16	
53130	Basic Construction Change		0.00	27-Jan-16	27-Jan-16	
560	Basic Construction		17.50 days	27-Jan-16	14-Feb-16	
560	Change and CE-B Installation		33.17 days	18-Jan-16	19-Sep-16	
250	Final Installation and Close		26.00 days	12-Oct-15	12-Oct-15	
390	Task 1, prep		4.00 days	04-Nov-15	04-Nov-15	
4000	Task 2, install and distribution equipment		20.00 days	10-Nov-15	30-Nov-15	
4000	Final		1.00 day	27-Jan-16	27-Jan-16	
	Network Wiring - Task 2		20.00 days	10-Nov-15	30-Nov-15	
13130	Basic Construction Change		0.00	27-Jan-16	27-Jan-16	
900	Outfitting and finishing works		87.00 days	17-Feb-16	17-Feb-16	
200	Order RFP		0.00 days	01-Feb-16	01-Feb-16	
41000	Order and install switch		46.00 days	18-Feb-16	26-Mar-16	
41000	Assess for installation of 2000 Tera-Sync switches from 2000000000		0.00 days	01-Feb-16	01-Feb-16	
41000	Install 2000 Tera-Sync switches from 2000000000		2.50 days	19-Feb-16	19-Feb-16	
41000	Install 2000 Tera-Sync switches from 2000000000		20.00 days	01-Mar-16	21-Mar-16	
41000	Install 2000 Tera-Sync switches from 2000000000		24.00 days	03-Apr-16	27-Apr-16	
41000	Finalize final proposal		1.00 day	16-Apr-16	16-Apr-16	
41000	Installation of 2000 switching nodes		10.00 days	26-Apr-16	06-May-16	
41000	Commissioning of 2000 switching nodes		4.00 days	09-May-16	09-May-16	

Task 2: Network Wiring

- Basic Construction Change, during day
- Order RFP
- Order and install switch
- Assess for installation of 2000 Tera-Sync switches from 2000000000
- Install 2000 Tera-Sync switches from 2000000000
- Install 2000 Tera-Sync switches from 2000000000
- Install 2000 Tera-Sync switches from 2000000000
- Finalize final proposal
- Installation of 2000 switching nodes
- Commissioning of 2000 switching nodes

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 10. 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, MUOFA 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@tle.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:sssharp@programmingevolutions.co.uk]
Sent: 19 December 2007 12:13
To: Tom Hickman
Cc: Scott.Mofadzen@billfinger.de
Subject: INTRACO Programme With finish dates

Tom

Please find new PDF of this weeks submission as requested. Sorry I did not notice that the finish dates ran 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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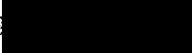
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APPENDIX B5

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 reasonable 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 already 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 and 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 compensated for by tie

20/12/2007

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