



Bilfinger Berger – Siemens – CAF Consortium

**EDINBURGH TRAM NETWORK
INFRACO CONTRACT**

**PERIOD REPORT No 7
TO 11 OCTOBER 2008**

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1 EXECUTIVE SUMMARY

Full occupation of the Project Office at Edinburgh Park will be implemented in week commencing 13th October, when full IT connectivity is available. The section office at Leith Walk is in use. Construction works are mobilised in sections 1B, 2, 5A, 5B, 5C and 7, with detailed mobilisation now in progress for imminent commencement in sections 6 and 1C, and planning in progress for section 1D (Haymarket/Princes St) in January 2009. Works are being carried out on a self delivery basis where necessary, to allow satisfactory completion of subcontract procurement without impacting on programme.

24,000 hours were worked in the period, of which 7400 were site hours, without any reportable accidents or incidents.

In the absence of an agreed updated programme, works are being planned and managed using the non-contractual 12 week look-ahead programme which covers the period to Christmas. Our submission of entitlement for Extension of Time in respect of the initial slippage from V26 to V31 of the design programme has been received by **tie**. Further delays in issue of approved IFC design, changes and access/utility diversions issues are impacting on programme and will be reflected in the contract programme when the V26/V31 issue is resolved.

Issue of approved IFC designs is affected in many areas by ongoing resolution of approval requirements. Incorporation of Consortium proposals for ductwork, trackwork, highway construction, OLE etc, has commenced but needs to be progressed urgently to ensure construction drawings are available. The development workshop and acceptance process detailed in the SDS Novation Agreement will be followed, to obtain the necessary **tie** instructions covering design and, where applicable, construction costs.

Construction works have commenced in a number of areas, but have immediately been impacted by the need to accommodate change (unsuitable ground, un-diverted utilities, unknown subsurface obstacles etc). Works have commenced in Leith Walk in the period, and will provide a useful indication on the likely impact of such issues, and of the need to work around incomplete utility diversion works on-street. BSC have submitted proposals for simplifying the change management process, to reduce the delay inherent in the current process, for **tie** consideration.

System engineering and procurement is in progress. Identification and resolution of interfaces, and achieving alignment between the base (November 2007) design and Consortium proposals, will be a significant activity for the next period, to support the design process.

Tram design and subsystem procurement is in progress. Visits to inspect the mock-up have resulted in substantial progress in confirming design details and stakeholder requirements.

2 HSQE MANAGEMENT

2.1 Health & Safety

2.1.1 Safety Management, including CDM

BSC Safety procedures training seminars carried out on 24th & 25th September to allow new staff to be included.

The Construction Phase Health & Safety Plan Rev 3 is currently being reviewed and updated to include new roles and responsibilities and include Work Package Contractor's Plans.

2.1.2 Accidents & Incidents

No accidents during period 7.

There have been no accidents between the end of period 6 up to 26th September 2008

No Near Misses reported in the period.

No reportable incidents in the period.

AFR for the first six periods is 0.00.

The total number of hours worked in period 6 was 23,677.

Non Site Hours = 16,238

Site Hours = 7,439

Breakdown of Site Hours

Parsons Brinckerhoff 778

BSC & Subcontractors 6,661

2.2 Quality

2.2.1 Quality Management

The Project Management Plan (including Project Quality Plan) was reviewed at a meeting with tie on 20th August. Updates to the document are being progressed.

Inspection and Test Plans are being developed for scheduled work activities.

2.2.2 NCR's

No NCRs raised by tie in the period.

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5 No NCRs raised by BSC in period 6. All have been closed out. One further NCR was raised at the Viking Building relating to isolation of power pre demolition.

2.2.3 Audit

A satisfactory assessment audit was carried out on Crummock Construction on 11th September.

An audit on the BSC Project Management Plan was carried out by tie on 4th September. A follow up audit is planned for January 2009.

An Environmental audit was carried out on 3rd September, 3 process related NCRs were raised and addressed.

2.2.4 Trend Analysis

Nothing to report at present.

2.3 Environment

2.3.1 Environmental Management

The revised Construction Phase Project Environmental Management Plan was rejected by tie and is currently under review.

2.3.2 Issues

There were no Environmental Events reported in the period on the project.

2.4 Management System / Deliverables

2.4.1 Deliverables prior to construction commencement.

Inspection and Test Plans

ITPs are being developed in conjunction with tie. SDS will not be involved in routine Quality Management (pour approvals etc.) as this will be self-certified by BSC. SDS will undertake Quality Surveillance to allow them to certify construction for Engineering Assurance/Handover documentation.

Project Management Plan

Updates being progressed.

Archaeological & Heritage Mitigation Plan

Plan being reviewed by CEC. Meeting between CEC and BSC architects is planned for w/c 29th September to progress.

Landscape and Habitat Mitigation Plan

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Plan in place for Roseburn Corridor only through SDS as required by contract scope.

Waste Management Plan

Included in the Construction Phase Project Environmental Management Plan.

2.5 KPI's

KPI spreadsheet for Period 6 was submitted to **tie** on 16th September along with associated notes; a further copy is attached as Appendix 10.1.

3 PROGRAMME

3.1 Contract Programme Status

The programme in the appendix to this report has baselines for V26 and V31.

Progress achieved up to 26 September 2008 has then been recorded against the above baselines including inputting the latest IFC dates received from SDS (V36).

We have still not received a revised MUDFA programme. Therefore where MUDFA activities were shown as being completed on the Contract Programme they are now defaulting to 26 September 2008.

The result is the following changes to Section Completion Dates:

	29 August Update	01 August 2008	29 April 2008
A	22 July 2010	24 June 2010	25 March 2010
B	30 September 2010	9 September 2010	23 April 2010
C	7 July 2011	27 May 2011	17 January 2011
D	3 January 2012	23 November 2011	16 July 2011

The above slippage is a direct consequence of incorporating design programmes V31 and V36 into the contract programme and is brought about by significant changes to the IFC dates for the following items in the period.

Subsection 1A (1, 2 & 4) Roads & Track
 Lindsay Road Retaining Wall
 Section 1B Roads & Track
 Section 1C Roads & Track
 Tram Stops at Picardy Place, St Andrews Square and Princes Street
 Section 1D Roads & Track
 Shandwick Place Tram Stop
 Section 2A Roads & Track
 Section 5A Roads & Track
 W18 Murrayfield Tram Stop Retaining Wall
 Murrayfield Tram Stop
 Section 5B Roads & Track
 Section 5C Roads & Track
 Gogarburn Tram Stop
 Depot Drainage

Further details on design delay impacts are shown in section 4.2.1

The need to undertake redesign at South Gyle Access Bridge and hence delay its construction is currently driving the final "Tram in Revenue Service" date. If the link between the bridge superstructure and trackwork is removed the end date comes forward to 21 November 2008. Allowing 10 days for the

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disruptive effect of having to demobilise and remobilise track infrastructure resources at South Gyle this date becomes 27 November 2011.

The above delays are consistent with the delay, caused by late IFC drawings, to the start of the tram M&E infrastructure works. This work was programmed to start in week 22 on the Contract Programme and has now slipped to week 41 in this latest update, a delay of 19 weeks.

Note – the links between Forth Ports Design Stage Consents and the related activities present in the Contract Programme have been deleted to enable a true analysis to be provided of the current situation.

3.2 Look Ahead Programmes

The look ahead programme, attached as Appendix 10.3, for this period is a progress marked update of the works to the year end. Further detail has been added since the previous report to provide a working programme of the activities to be undertaken in the next 3 months. The following points should be noted.

01B Foot of The Walk to McDonald Road

- Leith Walk CH 100 to 350 - IFCs were received on 15 Sept 08 and works are now progressing. Ongoing MUDFA Works could disrupt BSC activities.

01C McDonald Road to Princes Street West

- Leith Walk Ch.0-375 - Works are due to commence on 31 Oct 08.

02A Haymarket Corridor

- Haymarket Viaduct - Works commenced as planned but re-design of the temporary/permanent works has delayed construction of the East Abutment and Pier 4.
- Trackwork - Site Clearance is under way and Trackwork due to start on 9 Oct 08.

05A Roseburn Junction to Balgreen Road

- Russell Road Bridge – Additional SI was required. Revised Temporary Works Design is ongoing.
- Murrayfield Tramstop Retaining Wall – dependent on VE redesign of Roseburn Viaduct.
- Murrayfield Stadium Underpass – Awaiting assessment of further GI carried out for Murrayfield / Baird Drive Retaining Walls.

05B Balgreen Road to Edinburgh Park

- Carrick Knowe Bridge – Additional GI was required for Temporary Works Design affecting submission of the Form C to Network Rail. Diversion of the HV cable (by others) at the North Abutment has not been carried out to date and could impact on programme.

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- South Gyle Access Bridge / Bankhead Retaining Wall – Re-design of the bridge to avoid the sewer has now been abandoned in favour of diverting the sewer. We have allowed a period of two months for this work to be completed prior to commencing the substructure.
- Trackwork – Earthworks and Sub-base are planned to start on 14 October 2008.
- Edinburgh Park Station Bridge – Unforeseen ground conditions have resulted in the re-design of Temporary Works. Additional excavation to a suitable formation and the import of structural fills has been necessary. This has delayed the Form C submission by 3 weeks.

05C Edinburgh Park to Gogarburn

- Trackwork – Earthworks and Sub-base started 22 September 2008.
- Gyle Centre Tram Stop Retaining Wall – These works remain on hold awaiting MUDFA completion. Infraco works were due to start 01 August 2008 (V34) and are dependant on completion of the MUFA Work.
- A8 Underpass – Although Phase 1 has started, diversion of existing services not diverted by MUDFA has been the main activity during the period. Piling works which were due to start on 15 September 2008 are now planned for 13 October 2008.

06A Gogarburn Depot

- Earthworks in the Depot will start on until 13 October 2008.

07A Gogarburn to Edinburgh Airport

- Gogarburn Culvert is planned to commence on 16 October 2008.
- Gogarburn Underbridge – Site Set-up is well advanced and temporary access roads and excavation are ongoing.

General

- MUDFA are planning to divert the existing 1500 dia. sewer which passes under the A8. This must be in time for the Phase 3 Infraco Underpass construction.
- MUDFA should now complete water main works around a month later than anticipated 15 October 2008.
- Murrayfield Accommodation Works were programmed to commence during the SRU closed season. This now requires reassessment.
- IFC drawings for the Hilton Hotel car park (Section 7) have not yet been received.
- The sewer diversion works at Gogarburn Bridge have been passed to Infraco. The Change process is ongoing to confirm this instruction.

3.3 Design and Consents Programme Status

Following the meeting tie / BSC held on 3 September 2008 to debate the effect of the issue of V31 of the design programme on the Contract Programme, BSC have written to tie detailing their entitlement to an extension of time to the Contract Period. BSC have agreed to review tie's response informally and this information is awaited.

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3.4 Tramco Programme Status

Updated tram design, procurement, manufacturing, delivery and commissioning programme attached as Appendix 10.4.

3.5 Critical Impact Notices

The following present potential risks to the programme:

CIN001 - Completion of MUDFA works - ongoing

MUDFA Programme not received – Access Dates for Work Areas cannot be planned accurately.

CIN002 – Slippage of IFC dates post V31 - ongoing

We continue to experience slippage to the programme as the result of the late release of IFC drawings. V36 has now been issued.

CIN003 - Track/Roads Alignment Issues - update

IFC drawings were received on 15 September 2008 and works on Leith Walk are now in progress, but ongoing MUDFA Works could disrupt BSC activities. Our current programme does not include for areas of full reconstruction in all areas of Leith Walk.

CIN004 - Transfer of MUDFA Works to INFRACO - ongoing

These works will affect the commencement and/or programme of the Works.

CIN005 - Network Rail Form C Implications - ongoing

The Murrayfield structures and Bankhead Drive Retaining Walls continue to be delayed due to unresolved design issues.

CIN006 - Murrayfield Accommodation Works - update

A copy of the Third Party Agreement with the SRU has been received and programming of Accommodation Works is now being reviewed.

CIN009 – Princes Street

The programme does not currently make allowance for the additional remedial roadworks that are likely to be required for Princes Street.

4 PROGRESS

Programme update attached as Appendix 10.2.

4.1 Engineering

4.1.1 Civil & Building Design

4.1.1.1 Production of Design

We have replaced the table showing the design statistic with appendix 10.9. Our intention is to illustrate the design status schematically along a line chart. This chart is an early version for demonstration purposes which we will further develop.

4.1.1.2 Approvals & Consents

Systemwide

- Scottish Water Approval/Consents. Approval and consents of drainage design is being processed by Scottish Water. Up to date BSC have not received any comments from Scottish Water.
- **tie** have yet to make a decision whether the modelling for pedestrian crossing times shall be finalised using local or national standards.
- BSC still awaits final closeout of comments from CEC with respect to the demarcation between carriageway and tramway. This is delaying closeout report and Design Assurance Statement.

Subsection 1A1

Roads, Tracks, Drainage, Street Lighting & Landscaping – Subsection 1A1
Bernard St to Foot of the walk

- Forth Port Requirements for the Bypass Road and Ocean Terminal Finishes have been agreed.
- Roads, St Lighting, Landscaping, Drainage 1A1 IFC delayed due to TAA comments. This delay also affects IFCs for Port of Leith TS, Bernard St TS, Foot of the Walk TS, 1A2 roads. Tram Stop – Bernard Street (Ch 102+240)
- Prior Approval received. As 1.1, Technical approval and comments received on 19 Sept 08. BSC/SDS in process of responding to comments and updating drawings in anticipation of submitting IFC.

Tram Stop – Foot of the Walk (Ch102+700)

- Prior Approval received. As 1.1, Technical approval and comments received on 19 Sept 08. BSC/SDS in process of responding to

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comments and updating drawings in anticipation of submitting IFC.

Subsection 1A2

Roads, Tracks, Drainage, Street Lighting & Landscaping – Subsection 1A2 – Port of Leith to Bernard Street

- Roads, St Lighting, Landscaping, Drainage 1A2 IFC delayed due to TAA comments. Letter sent to BSC 290808. This delay also affects IFCs for Port of Leith TS, Bernard St TS, Foot of the Walk TS, 1A2 roads. Approx.40% complete

Tram Stop – Port of Leith (Ch 101+780)

- Prior Approval received. As 1.1, Technical approval and comments received on 19 Sept 08. BSC/SDS in process of responding to comments and updating drawings in anticipation of submitting IFC.

Subsection 1A3

Victoria Dock Entrance Bridge – S16 (Ch 101+370)

- Tower Place Bridge and Victoria Dock Bridge. Bridges to be separated from approval package to obtain IFC separately from roads issues.

Subsection 1A4

Roads, Tracks, Street Lightning & Landscaping –Newhaven to Ocean Terminal

- CEC requested delay to providing response to Planning Batches in this area.
- 1A4 delayed due to redesign. Delay due to the CEC requirement to take account of a full access junction for the TAA.

Drainage –Newhaven to Ocean Terminal and Tramstop Newhaven

- Objection to the Planning and Prior Approvals in the west of the site (Batches 1/01a, b, c) have been registered by an impacted 3rd party (ADM Milling) who was not party to the Forth Ports agreement. CEC have raised comment with BSC/SDS on this and have advised that they cannot come to decision until such issues are resolve. BSC/SDS has provided a design in accordance with the revised FP agreement, as instructed, and the negotiation with the 3rd party is outwith the scope of BSC/SDS.
- CEC requested delay to providing response to Planning Batches in this area.

Subsection 1B

Roads, Tracks, Drainage, Street Lighting & Landscaping – Subsection 1B

- IFC Issued. Awaiting final closeout of comments from CEC with respect to the demarcation between carriageway and tramway. This is delaying closeout report and Design Assurance Statement. Possible change will arise out of CEC decision.

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Substation – Leith Walk – SS11 (Ch110+380)

- IFC Issued. Awaiting formalisation of building warrant approval from CEC.

Subsection 1C1

Roads, Tracks, Street Lighting & Landscaping – Subsection 1C1 – London Road

- BSC/SDS currently responding to CEC comments outstanding from TAA approval in anticipation of IFC issue. BSC still awaits final closeout of comments from CEC with respect to the demarcation between carriageway and tramway. This is delaying closeout report and Design Assurance Statement. Possible change will arise out of CEC decision.

Subsection 1C2

Roads, Tracks, Street Lighting & Landscaping – Subsection 1C2 – London Road to Picardy Place

- TAA submittal delayed with CEC request for additional information. TAA submittal immanent. BSC/SDS submitted planning information to CEC for consultation meeting on 02 October. Prior Approval submittal imminent.

Drainage – Subsection 1C

- TAA submittal delayed with CEC request for additional information. TAA submittal imminent. BSC/SDS submitted planning information to CEC for consultation meeting on 02 October. Prior Approval submittal imminent.

Tram Stop – Picardy Place (Ch120+600)

- TAA submittal delayed with CEC request for additional information. TAA submittal imminent. BSC/SDS submitted planning information to CEC for consultation meeting. Prior Approval submittal imminent.

Subsection 1C3

Roads, Tracks, Street Lighting & Landscaping – Subsection 1C3 – York Place

- BSC/SDS currently responding to CEC comments outstanding from TAA approval in anticipation of IFC issue. BSC still awaits final closeout of comments from CEC with respect to the demarcation between carriageway and tramway. This is delaying closeout report and Design Assurance Statement. Possible change will arise out of CEC decision.
- Tramstops in section 1C3 are delayed due to the non receipt of RSA exceptions report & volume of comments. Princes Street requires completion of the comments by Roads so that interfaces can be finalised. Further delay that has arisen from the previous sets of comments received
- Tramstop delayed due to the non receipt of RSA exceptions report & volume of comments.

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- St. Andrew Square tramstop requires completion of the comments by Roads so that interfaces can be finalised. Further delay that has arisen from the previous sets of comments received.

Subsection 1D

Roads, Tracks, Drainage, Street Lighting & Landscaping – Subsection 1D

- ID Roads IFC late due to late return of TAA comments. The TAA comments are being delayed due to a change request at Haymarket, and the need for the Modelling and RSA to be complete before approval can be granted.
- There is an outstanding change for the revision to lighting and relocation of cabinets. CEC response to comments is still outstanding. The modelling and RSA points are from CEC. BSC/SDS have submitted the RSA and the modelling has not been an issue for previous approvals. BSC/SDS awaits CEC TAA approval and any comments.

Haymarket Junction Roads

- BSC/SDS have submitted an updated Roads, Track, OLE and Street lighting design to CEC in the Haymarket area to address the Road Safety Concern raised and consequently, CEC's non-acceptance of the originally instructed design. No formal comments (other than the non-acceptance of the RSA exception) from CEC on Section 1D have been received by BSC/SDS in accordance with the design submittal. Haymarket Taxi Stand (Section 1D)
- BSC/SDS have been advised informally by CEC that their Section 1D comments will contain a requirement to change the previously required bus lay-by in front of Haymarket station back to a taxi stance, similar to the existing condition

Tram Stop – Shandwick Place (Ch130+710)

- There is an outstanding change for the movement of the tramstop, revision to lighting and relocation of cabinets. CEC response to comments is still outstanding. The modelling and RSA points are from CEC. BSC/SDS have since submitted the RSA and the modelling has not been an issue for previous approvals. BSC/SDS awaits CEC TAA approval and any comments.
- Shandwick Place IFC late due to late return of TAA comments. CEC have come back with several comments on the Prior Approval under which we applied for the change. There has also been an additional landscaping issue that CEC were holding up the PA with respect to wider public realm. I believe that this was resolved yesterday. BSC/SDS awaits CEC TAA approval and any comments.
- On 14 August 08, CEC provided a letter to BSC/SDS containing non-specific comments regarding the planning application submitted to CEC for Prior Approval on 25 April 08. BSC/SDS provided requested information to CEC for their internal meeting on 22 August 08. Meeting held on 25 September 08 which outlined BSC/SDS' existing proposal to be retained.

Subsection 2A

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Roads, Tracks, Street Lighting & Landscaping – Subsection 2A

- 2A Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments initially, followed by the volume of comments.

Substation – Haymarket – SS02 (Ch 200+070)

- Prior Approval already granted and Siemens now to complete the design and issue the IFC.

Subsection 3B

Roads, Tracks, Street Lighting & landscaping – Subsection 3B

- 3B Roads, Drainage and Street Lighting IFC is outstanding as TAA comments are outstanding. Section 3 has been de-prioritised by CEC therefore it is not know at present when comments are likely to be received.

Subsection 3C

Roads, Tracks, Street Lighting & Landscaping – Subsection 3C

- 3C Roads, Drainage and Street Lighting IFC is outstanding as TAA comments are outstanding. Section 3 has been de prioritised by CEC therefore it is not know at present when comments are likely to be received.

Subsection 5A

Roads, Tracks, Street Lighting & Landscaping – Subsection 5A

- 5A Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments.

Drainage – Subsection 5A

- Awaiting comments from CEC Transport

Roseburn Street Viaduct – S21A (Ch 510+580)

- Option A is being designed. BSC are preparing a programme for design, approval and construction.

Murrayfield Tramstop Retaining Wall – W18 (Ch 510-450)

- Redesign is in progress.

Murrayfield Accommodation works

- Accommodation works to be re-considered after receipt of SRU Agreement

Tram Stop – Murrayfield (Ch 510-470)

- Redesign is in progress

Russell Road Retaining Wall 1 – W3 (Ch 510-200)

- IFC Issued – no longer a sewer clash

Subsection 5B

Roads, Tracks, Drainage, Street Lighting & Landscaping – Subsection 5B

- Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments initially, followed by the volume of comments.

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Subsection 5C

Roads, Tracks, Drainage, Street Lighting & Landscaping – Subsection 5C

- 5C Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments.

Tram stop – Gogarburn (Ch 531+860)

- On hold as instructed by tie awaiting RBS concept design

Depot Access bridge – S32 (Ch531+230)

- IFC prepared and will be issued upon receipt of Prior Approval which is imminent

Subsection 7A

Roads, Tracks, Drainage, Street Lighting & Landscaping

- Awaiting TAA comments from CEC

Species Mitigation plan

- Issued as approved by SNH

Tram Stop – Edinburgh Airport (Ch 712+560)

- BAA - BSC, TEL, Transdev, SDS, tie and BAA have agreed a Way Forward in Principal in order to progress the design and approvals at the Airport. BSC/SDS have issued the Prior Approval. BSC/SDS also await BAA's confirmation of the design for the covered walkway over the Kiosk. BSC/SDS believe that BAA have appointed their architects, Capita, to review the scope for this. BAA still to confirm approval of concourse and kiosk.
- Relocation of Burnside Road - This is construction critical, as BBS are aware, and the phasing of this will drive the design in the Airport area in some key areas.

Gogar Burn Retaining Wall Two – W14 (Ch 712+220) (Ch 712+570)

- CEC request amendment to finish which will delay IFC

Gogar Burn Retaining Wall One – W14 (Ch 712+100) (Ch 712+190)

- CEC request amendment to finish which will delay IFC

Tram Stop – Ingliston Park & Ride (Ch 711+740)

- IFC delayed due to Change Order from tie from BSC/SDS to design road and pedestrian links to Tram Stop

Utilities

1A

- Section 1A (6-10) on hold awaiting confirmed rail and kerb positions

1C

- IFC drawings have been issued to tie (except Scottish Water Sewers at Picardy Place)
- 1C (Picardy Place) Design on hold awaiting confirmed rail and kerb positions

2A

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- IFC drawings have been issued to tie (except Scottish Water Sewers)
- Tie are undertaking to record manhole and sewer information in order for the design to proceed and closeout

5A

- IFC drawings have been issued to tie (except Scottish Water Sewers)
- Diversion at Russell Road Retaining walls no longer required
- Water of Leith pier foundation under review to avoid existing sewer.

5B

- FC drawings have been issued to tie (except Scottish Water Sewers)
- Sewer design issued for IFC except at South Gyle Access, design approved by Scottish Water awaiting tie decision to divert sewer or design wide span bridge.

4.1.1.3 Issues and Concerns

To highlight issues and concerns regarding design we have attached appendix 10.10. The illustration denotes current issues and the area in which they occur.

4.1.2 E&M Systems Design

EMC

Stray Current Report issued and distributed. Proposal for enhanced Immunisation measures are under preparation. Manfred Menge handed over EMC responsibilities to his colleague Wolfgang Braun. Wolfgang Braun will measure soil resistivity end of September. A test at NR track in Nottingham is planned in October and meetings for coordination took place.

Power Supplies

Cable duct requirements for signalling, traction power supplies, telecomms and low voltage power distribution are being defined and agreed for Leith Walk with SDS and Civils construction team, enabling Approved for Construction Drawings to be generated and issued.

Trackwork

Production

Preliminary design report has been issued and has passed internal reviews by BSC. SDS is verifying this report for CEC approval
Verification of Alignment Drawings is in progress.
The basis of design documents is being written as first part of the basic design phase
A number of technical queries have been raised.

Approvals and Consents

Preliminary Design report will be submitted to CEC in short term

Issues and Concerns

Still no clarity regarding document / drawing status. Very few drawings "Issued For Construction"

Alignment drawings still not correct.

Changes in design due to VE-requests and Change Orders may influence the programme.

The answers we receive to the Technical Queries are often evasive and rarely address the problem.

Track stiffness specification need more details and this may lead to delay in the supply of the sleepers.

Unclear locations of the different trackforms hampers the work preparation process.

It has not been confirmed that the bolted crossings will be allowed. If it has to be cast manganese it will delay the programme considerably.

Storage area not available yet and need further investigation. Again this may influence the programme.

A new construction programme is still not agreed and an update of the design programme is therefore not feasible.

Depot Workshop Equipment

Design

DWE design phase started on all equipment as

Vehicle washing plant

Under floor wheel lathe

Under floor lifting plant

Crane

Service Vehicles

It might become necessary to readjust the height of the crane beam support brackets on the columns. This is due the very limited height in the workshop and the detailed design of the crane.

Approvals and Consents

First Design submittals under preparation.

Under floor Wheel Lathe design will be submitted end of September.

Signalling, Scada, PIS, PA, Comms

Production

Works to programme no significant issues

Approvals and Consents

No documents have officially been submitted yet for approval.

4.1.3 Tram Design

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The status of tram design can be seen on items 19 and 20 on the programme (refer to Appendix 10.4). Interface 2 does not start until Interface 1 – System Interface Basic Definition is finished. At present, CAF still does not have sufficient information on the system that Lothian Buses has asked CAF to install on the tram (Bus Tracker). Without this information, CAF can not close Interface 1 and, as a consequence, Interface 2 will be delayed.

The 2nd visit to the mock-up was made on the 29th and 30th of September. Item 7 "Approval mock-up" has not been amended since it is likely that this approval can be achieved on time if all the parties involved cooperate with this aim.

4.1.4 System Assurance

tie led reviews of SDS produced Assurance Packages are programmed through October and thereafter. BSC design management staff will attend all such reviews to ensure that Assurance output is in accordance with ICP requirements and available on time.

4.1.5 Design Change Management

Civil & Building Work

Refer to Appendix 10.7

E&M

Assessment of changes 014 (power Supplies) and 015 (Additional Tram Stop at Gogar, two options) have been submitted to **tie**.

4.1.6 Value Engineering

Civil & Building Works

Redesign of Roseburn Street Viaduct is in progress.

Instructions from **tie** to progress reassessment of other design-to-cost value engineering opportunities (VE7 Depot, VE12 Edinburgh Park Bridge, VE14 A8 underpass) have been actioned and estimate/programme information will be provided as soon as possible. Work on these items is already in progress, in accordance with IFC design and, where relevant, **tie** instructions, which will limit achievable VE savings.

VE status is now reviewed in regular **tie**/BSC meeting.

E&M Systems

Impact of down rating UPS provision, as a VE exercise, is being assessed.

4.1.7 Request for Information

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4.2.6.1 Civil & Building Works

See Appendix 10.5. RFI Register

4.2.6.2 E&M Systems

TQ's and RFI's for all Siemens disciplines are being reviewed internally. Interface review has identified misalignments between the Consortium proposals and the base (November 2007) design, and further development workshops will follow.

Development workshops have been held on draft designs for OLE, trackwork, earthing & bonding and Haymarket viaduct

4.2 Civil & Building Works

4.2.1 Procurement

4.2.1.1 Subcontractors

A subcontract procurement schedule, showing status at 28th September, is attached as Appendix 10.6.

Section 1A

No further progress is likely to be achieved with RJ McLeod in this section. This section of work will not now start until January 2009 which allows some additional time to develop splitting the section into smaller more manageable sections to ensure continued interest.

Section 1B

We have concluded our procurement process for Section 1B and we have requested of tie their approval to subcontract this section of the works to Crummock Ltd.

Section 1C

The eastern end of Section 1C which will start within the next 6 weeks and we are likely to extend Crummock's involvement to include these initial areas. It is our intention to self deliver the remaining works in Section 1C and a strategy for carrying out the works is still being finalized.

Section 1D

Section 1D will be self delivered (ie with BSC site management). We have received, and are currently reviewing returned tenders from several trade/domestic subcontractors for Section 1D to secure resources. Section 1D is programmed to start in January 2009.

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Section 2A and 5A (Part)

A letter of intent has been issued to Hunter Demolition to include buildings in Section 2A and 5B.

We will include our subcontract discussions with Grahams, early in October. In the interim we are proceeding with labour only subcontractors to progress the works.

Section 5A(part), 5B and 5C (part)

We are in final negotiation with formwork, rebar, and concrete contractors to award Edinburgh Park Bridge and Carrickknowe Bridge.

We have issued a letter of intent for piling to Expanded Ltd for the A8 Underpass to secure a rig as required by the current programme.

Discussion are on going regarding other smaller trade contractors, e.g. earthworks, drainage, ducting and concrete works to the track, who will work under BSC site management.

Section 6

We are currently finalising the terms and conditions of the full subcontractor order for Barr Ltd for the construction of the depot. In the meantime Barr Ltd has been issued with a Limited Instruction to Proceed to progress any area of the depot which we consider to be critical to our progress, at risk pending IFC design and this is now happening. BSC and Barr will not commence Depot building works until the site is properly accessible and bulk earthworks are sufficiently complete.

Section 7A

A formal request of tie to approve subcontracting the works to Farrans has been requested. A final meeting to conclude the terms and conditions will take place early in October. Work ins continuing under a Limited Notice to proceed.

General

Procurement of relevant key subcontractors (Major Civil Works Contractors, Piling Contractors, Ground stabilisation specialists) includes the requirement for provision of a Collateral Warranty, in accordance with cl 28.7 of the Contract.

We may need to offer tie, in some instances, alternative wording for their agreement, as we have not as yet been able to conclude our negotiations with potential subcontractors using the template in Schedule 8 part F.

4.2.1.2 Materials

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Procurement of construction materials (concrete, rebar, etc.) is continuing to support commencement of construction.

4.2.1.3 Long Lead Procurement Management

Unresolved design issues have prevented confirmation of an order for supply of the precast concrete beams to Edinburgh Park Bridge.

4.2.2 Construction

4.2.2.1 Progress on site, to 7th October 2008

Section 1A Newhaven Road to Foot of the Walk

No activities planned to commence during the period.

Section 1B Foot of Leith to McDonald Rd

Mobilisation of Satellite office 163 Leith Walk has continued. Building repairs have been completed. Internal decoration has been completed. Office was fully occupied on 1st October 2008.

Ch 100-350 - Mobilisation has continued. Traffic management scheme is scheduled to be implemented on Thursday 2nd October 2008. Crummock are programmed to commence construction activities on Monday 6th October. Impact of concurrent works by MUFDA in the work area will be evaluated when Crummock commence.

Section 1C McDonald Rd to Princess Street West

Traffic Management scheme has been submitted for approval to allow construction activities to commence on 30th October

Section 1D Princess St to Haymarket

No activities planned to commence during the period

Section 2A Haymarket to Roseburn Junction

Haymarket Station Viaduct –Sub Structure Pier bases 2 & 3 are scheduled to be cast on 2nd October

Abutment and temporary support is currently being redesigned.

Section 5A Roseburn Junction to Balgreen Rd

Baird Drive Retaining Wall - Site Clearance has been completed

Site access and temporary haul rd at Carrick Knowe has been established.

Jenners - Carrick Knowe Site clearance has commenced.

Site Clearance to Murrayfield Retaining wall has continued.

Demolition operations has continued at Simlock, Viking

NCR buildings demolition has been completed.

Russel Rd Underbridge – Further site investigation has been carried out to allow Temporary works design to progress.

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Section 5B Balgreen Rd to Edinburgh Park Central

Carrick Knowe Bridge – Site Access construction has continued Additional Site investigation has been carried out. Temporary works required for track support zone is currently being redesigned

Track work – Site investigation has been completed.

Edinburgh Park Station Bridge – Site Access works have commenced. Additional structural earthworks excavation to piers 5,6 & North Abutment has been completed.. Additional site investigation to allow redesign of Temporary works has been completed

Section 5C Edinburgh Park Central to Gogarburn

Establishment of Consortium office has been completed. Infraco IT & phone connection now scheduled for 10th October 2008.

Site clearance/ temporary haul road construction has commenced

A8 Underpass – Diversion of existing services not previously diverted by MUFDA, has continued. Alternative pedestrian diversion has been established. Preparatory work for piling including installation of guide walls scheduled to commence 30th Sept.

Piling Scheduled to commence 6th October

Section 6A Depot

Programme of works to allow work to commence prior to MUDFA completion is currently being prepared.

Section 7A Gogarburn to Edinburgh Airport

Mobilisation has continued. Accommodation has been erected.

Site Clearance has continued.

Temporary works to Gogarburn has been established.

Submissions

30 Work package plans have now been approved/accepted

27 Work package plans are currently in draft form

4.3 E&M Systems

4.3.1 OLE (Overhead Line Equipment)

Production

Draft detailed OLE designs completed

Approvals and Consents

Variances of drafted OLE design from planning approval submissions advised to SDS for impact assessment. Overall number of building fixings and poles

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reduced from reference design. Proposed combined OLE/lighting pole designs submitted to SDS to assess consents requirements.

Issues and Concerns

OLE/ TPS: Formal acceptance of auto-tension systems awaited. Changes as a result of Planning Approval process. Little impact if communicated prior to mid-October, however impact on cost and programme after this time will increase significantly.

4.3.2 TPS (Traction Power Supply)

Production/Procurement

No issues

4.3.3 TRW (Trackwork)

Procurement

Critical materials have been contracted

Construction

No activities

4.3.4 DWE (Depot Workshop Equipment)

Production / Procurement

Procurement of DWE equipment already started. Selection on supplier under progress.

Production of DWE equipment will start after approval of design submittals

Issues and Concerns

Some RFI regarding DWE equipment are still open or not answered as detailed as necessary. Need to be answered to finalise design.

Tram technical details like bogie fixation and possible forces on this connection as well as the washing detergent approval are required to finalize lifting plant and washing plant design. Already addressed in the interface clarification process.

Wheel profile of tram is available which is an important interface for the design of the Under floor wheel lathe.

4.3.5 Signalling, SCADA, PIS, PA, Comms

Production

Procurement selection in progress, system interfaces defined. The preliminary design for the signalling sub-systems is in progress. In parallel the technical requirements and interfaces of the track side and train borne components e.g. point machines, TPDS onboard computer have been defined and the procurement selection is now in progress.

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Based on the design of Leith Walk tram stop the duct requirements have been clarified between Civil and LVS, SIG and COM.

Approvals and consents

Final road junction layouts awaited.

Issues and concerns

Instruction to CAF to install “Bustracker” does not appear to be coordinated with signalling system requirements, requests for clarification remain unanswered

SCADA, CIS, PA

Production

Requirements from TPS etc collated for SCADA, preliminary design in progress.

Demonstration of CIS/SCADA/PA to Tie/CEC/Transdev/Lothian Buses held in Ashby

Approvals and consents

See “issues”

Issues and concerns

CIS customer requirements conflict, physical size v message requirements.

Telecomms

Production

Detailed design in preparation.

Approvals and consents

No current issues

Issues and concerns

Aspirations for additional on-tram functionality may exceed available bandwidth capacity.

4.3.6 TLC (Traffic Light Control)

Pre-contract quotes being re-assessed for resubmission based on current road junction designs.

Not all road junctions layouts have been finalised by CEC.

4.3.7 HV/LV - Supply

Production

Specification of operational requirements given to Scottish Power, with whom cooperative working in assessing requirements for each site are in progress prioritising Gogar depot and Ingliston P&R..

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Approvals and consents

Completion of surveys and assessments is required to determine the extent of consents required.

4.4 Trams

4.4.1 Procurement

Refer to programme (Appendix 10.4)

4.5 Testing, Commissioning and Start-up

No comments

5 NOT USED

6 STAKEHOLDER AND THIRD PARTY ISSUES

Representatives of the construction team have participated in public/stakeholder consultation events at Leith Walk.

Detailed planning proposals for Section1D were reviewed with tie/CEC at the end of September and will be further developed to enable public/stakeholder communication prior to commencement in January 2009. BSC are attending the monthly Project Stakeholder Consortium Committee meetings.

7 COMMERCIAL

7.1 Milestones

Milestones Achieved in the Period

Month 5 Preliminaries (BB)
Month 5 Preliminaries (S)
Month 5 SDS Interface

Milestones Programmed but not Achieved

There are ongoing meetings with tie to discuss the Milestone Schedule and our next meeting is arranged for the 9th October 2008 where we discuss amongst other things any milestones which have not been achieved.

By agreement we will revise the milestone schedule to reflect progress to date and the future progress of the works.

7.2 Changes/Instructions/Departures

See Appendix 10.6

7.3 Risks and Opportunities

- Risks – a meeting to discuss Risks has yet to be convened.
- Opportunities – the subject of opportunities features on the agenda of VE meetings which are held on a regular basis.

8 RESOURCES

8.1 Organisation Chart

See Appendix 10.7



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9 OTHER ISSUES

No comments



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10 Appendices

10.1 KPI Report

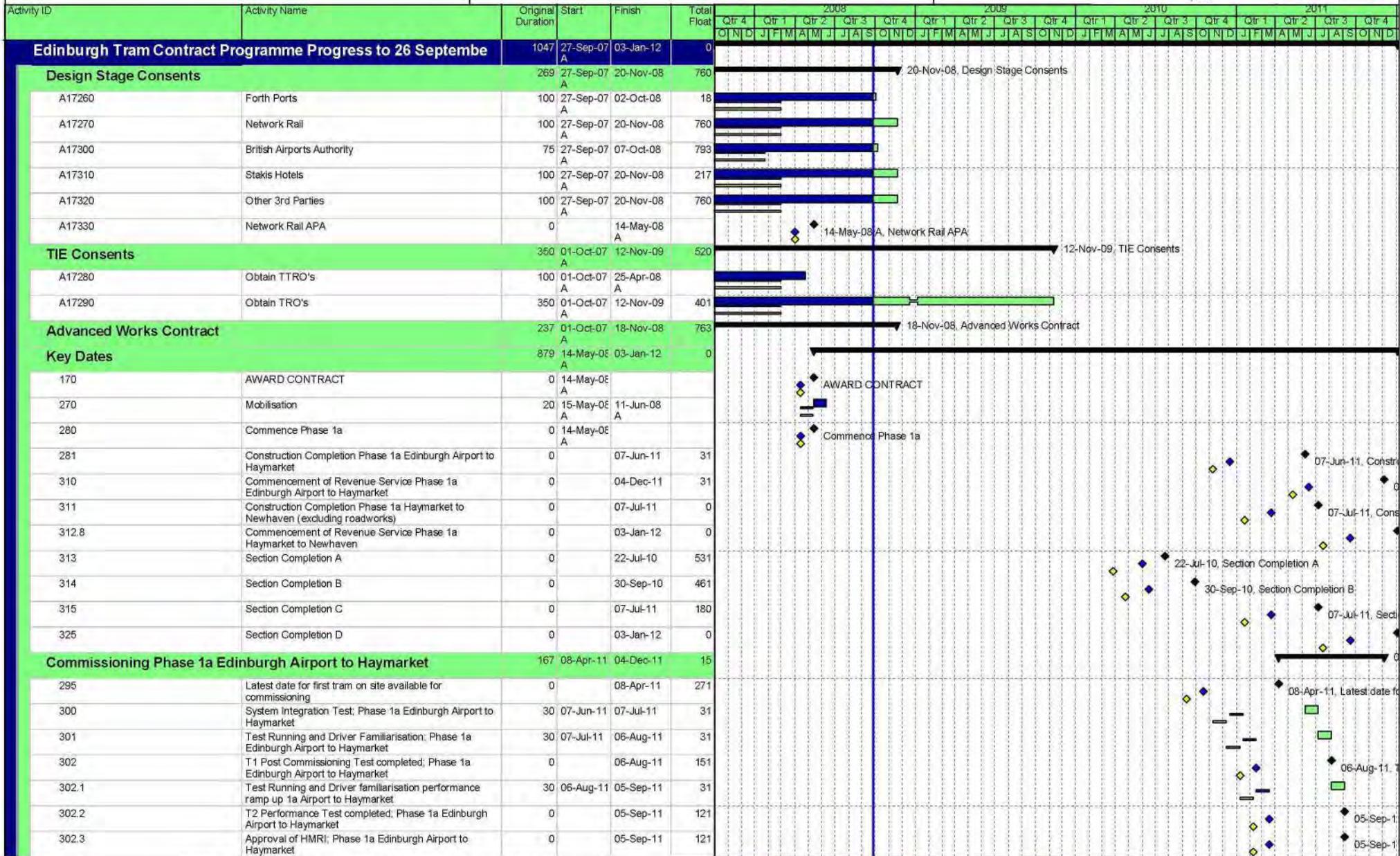


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10.2 Programme Update

Contract Programme Tracked for V31 and V36 of Design Programme and Progress to 26 September 2008

EDINBURGH TRAM NETWORK



Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline
 Actual Work
 Critical Remaining Work
 ◆ V31 Baseline Milestone
 ◆ Milestone
 ▶ Summary

V31 Baseline
 Remaining Work
 ◇ V26 Baseline Milestone

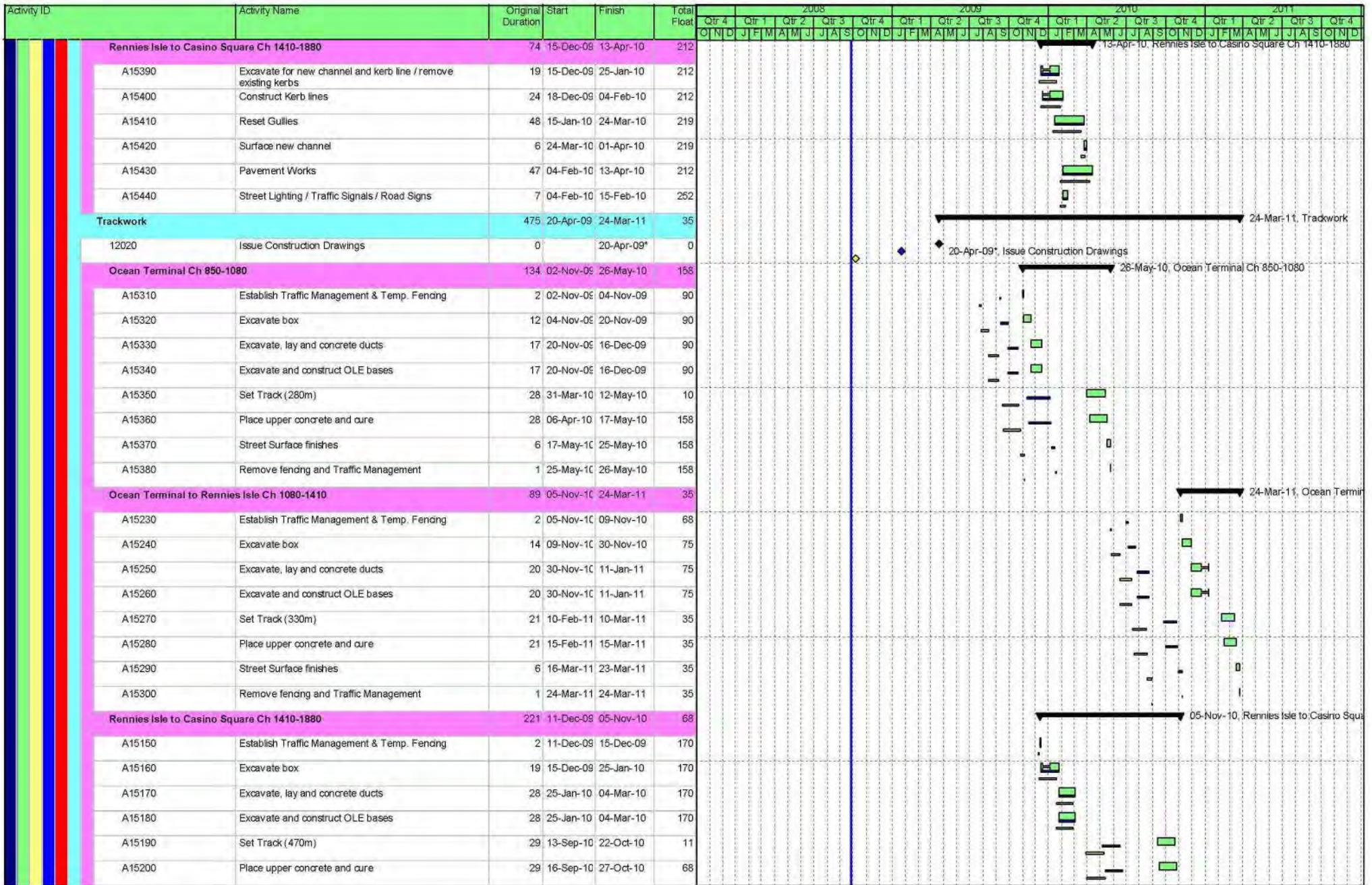
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						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
245	Depot SGN Diversion	0		23-May-08																								
255	Depot Watermain Diversion	0		26-Sep-08*	-118																							
260	MUDFA & Utilities work area 9 completion	0	26-Sep-08		181																							
Third Party Notice Periods		271	26-Sep-08	02-Nov-09	529	02-Nov-09, Third Party Notice Periods																						
A14170	ADM Milling	28	10-Dec-08	09-Jan-09	1085																							
A14180	CGM Edinburgh Ltd.	28	06-Oct-08	03-Nov-08	1150																							
A14190	Forth Ports	28	29-Oct-08	26-Nov-08	1127																							
A14200	ICAS	184	26-Sep-08	30-Mar-09	1004																							
A14210	Kenmore Capital	28	06-Oct-08	03-Nov-08	1150																							
A14220	Land Securities Trillium	28	06-Dec-08	05-Jan-09	1089																							
A14230	NULAP	62	26-Sep-08	26-Nov-08	1126																							
A14240	Ocean Terminal	28	05-Oct-09	02-Nov-09	789																							
A14250	Royal Yacht Britannia	28	05-Oct-09	02-Nov-09	789																							
A14260	Trustees of City Point	28	06-Oct-08	03-Nov-08	1150																							
A14270	Venty Trustees	28	06-Oct-08	03-Nov-08	1150																							
A14280	CGM Edinburgh Ltd	28	06-Oct-08	03-Nov-08	1150																							
A14350	BAA	28	26-Sep-08	23-Oct-08	1160																							
A14360	Clerical Medical Investment Group	28	30-Sep-08	28-Oct-08	1156																							
A14370	Jenners (JPSE)	28	03-Jun-09	01-Jul-09	912																							
A14380	Murrayfield Indoor Sports Centre	28	26-Sep-08	23-Oct-08	1160																							
A14390	NEL & EPML	28	14-Oct-08	11-Nov-08	1142																							
A14400	Royal Mail	28	26-Sep-08	23-Oct-08	1160																							
A14410	Safeway - Morrisons	28	10-Dec-08	09-Jan-09	1085																							
A14420	SRU	28	26-Sep-08	23-Oct-08	1160																							
A14430	UGC Properties	28	26-Sep-08	24-Oct-08	1160																							
A14440	Universities Superannuation Scheme	28	14-Oct-08	11-Nov-08	1142																							
A14450	West Craigs Ltd	28	26-Sep-08	23-Oct-08	1160																							
A14470	NIL	28	09-Mar-09	06-Apr-09	998																							
A14500	Adshel	31	26-Sep-08	26-Oct-08	1157																							
A14510	BT	28	26-Sep-08	23-Oct-08	1160																							
A14520	Cable & Wireless	28	26-Sep-08	23-Oct-08	1160																							
A14530	Easynet Telecomms Ltd.	28	26-Sep-08	23-Oct-08	1160																							
A14540	Historic Scotland	28	26-Sep-08	23-Oct-08	1160																							
A14550	Network rail	28	19-Dec-08	18-Jan-09	1075																							

Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline
 Actual Work
 Critical Remaining Work
 V31 Baseline Milestone
 Milestone
 Summary

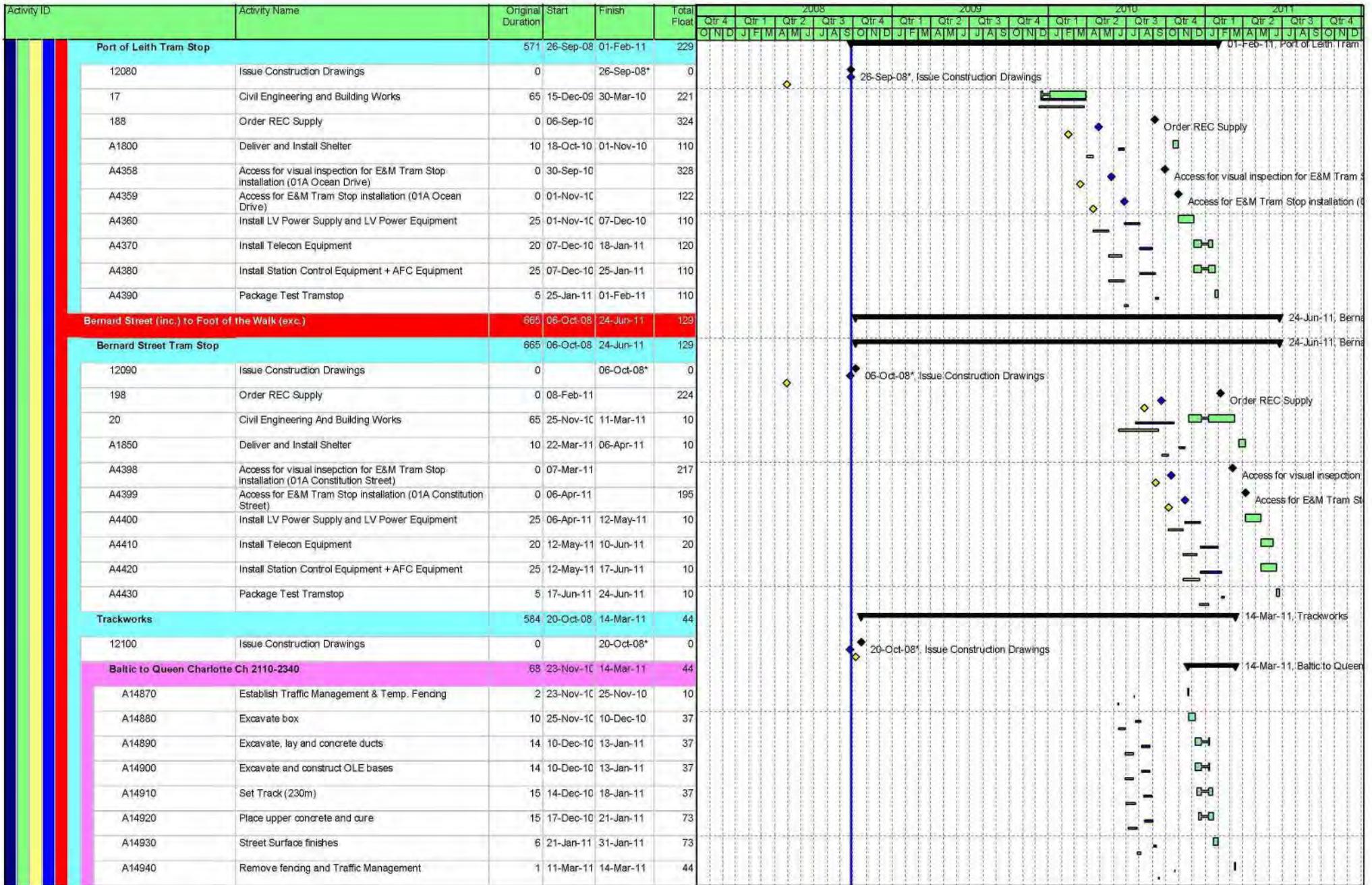
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Date	Revision	Checked	Approved
26-Sep-08		scs	

— V26 Baseline — V31 Baseline ■ Actual Work ■ Remaining Work ■ Critical Remaining Work ◆ V31 Baseline Milestone ◆ Milestone ▼ Summary

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Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline
 Actual Work
 Critical Remaining Work
◆ V31 Baseline Milestone
◆ Milestone
 Summary

Remaining Work
◆ V26 Baseline Milestone

CEC00430660_0042

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2008												2009												2010												2011															
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						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	
Queen Charlotte to Foot/Walk Ch 2340-2730						87	22-Jul-10	23-Nov-10	10																																																
A14630	Establish Traffic Management & Temp. Fencing	2	22-Jul-10	26-Jul-10	23																																																				
A14640	Excavate box	16	26-Jul-10	18-Aug-10	23																																																				
A14650	Excavate, lay and concrete ducts	24	18-Aug-10	21-Sep-10	23																																																				
A14660	Excavate and construct OLE bases	24	18-Aug-10	21-Sep-10	23																																																				
A14680	Set Track (390m)	25	05-Oct-10	09-Nov-10	10																																																				
A14690	Place upper concrete and cure	25	08-Oct-10	12-Nov-10	10																																																				
A14700	Street Surface finishes	6	12-Nov-10	22-Nov-10	10																																																				
A14710	Remove fencing and Traffic Management	1	22-Nov-10	23-Nov-10	10																																																				
Roadworks						559	20-Oct-08	07-Feb-11	68																																																
12110	Issue Construction Drawings	0	20-Oct-08*	0	0																																																				
Baltic to Queen Charlotte Ch 2110-2340						41	25-Nov-10	07-Feb-11	68																																																
A14950	Excavate for new channel and kerb line / remove existing kerbs	10	25-Nov-10	10-Dec-10	68																																																				
A14960	Construct Kerb lines	12	01-Dec-10	17-Dec-10	68																																																				
A14970	Reset Gullies	24	15-Dec-10	01-Feb-11	68																																																				
A14980	Surface new channel	4	01-Feb-11	07-Feb-11	68																																																				
A14990	Pavement Works	23	17-Dec-10	02-Feb-11	71																																																				
A15000	Street Lighting / Traffic Signals / Road Signs	7	17-Dec-10	11-Jan-11	87																																																				
Queen Charlotte to Foot /Walk Ch 2340-2730						62	26-Jul-10	21-Oct-10	32																																																
A14810	Excavate for new channel and kerb line / remove existing kerbs	16	26-Jul-10	18-Aug-10	32																																																				
A14820	Construct Kerb lines	20	29-Jul-10	27-Aug-10	32																																																				
A14830	Reset Gullies	40	13-Aug-10	08-Oct-10	35																																																				
A14840	Surface new channel	6	08-Oct-10	18-Oct-10	35																																																				
A14850	Pavement Works	39	27-Aug-10	21-Oct-10	32																																																				
A14860	Street Lighting / Traffic Signals / Road Signs	7	27-Aug-10	07-Sep-10	64																																																				
01B Foot of the Walk (inc.) to McDonald Road (exc.)						628	18-Jul-08	24-Mar-11	192																																																
E & M Installation						65	08-Dec-10	24-Mar-11	192																																																
A3763	Access for visual inspection for E&M wayside installation (01B)	0	08-Dec-10	257																																																					
A3764	Access for E&M wayside installation (01B)	0	21-Jan-11	236																																																					
A3765	Installation of poles and building fixings	10	21-Jan-11	04-Feb-11	23																																																				
A3770	Overhead Catenary Line	23	04-Feb-11	09-Mar-11	23																																																				
A3778	Access for visual inspection to cable pits for cable laying (01B)	0	19-Jan-11	237																																																					
A3779	Access to cable pits for cable laying (01B)	0	18-Feb-11	216																																																					
A3780	Install Electrical Cables	12	18-Feb-11	08-Mar-11	73																																																				

Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline Actual Work Critical Remaining Work V31 Baseline Milestone Summary
 V31 Baseline Remaining Work V26 Baseline Milestone Milestone

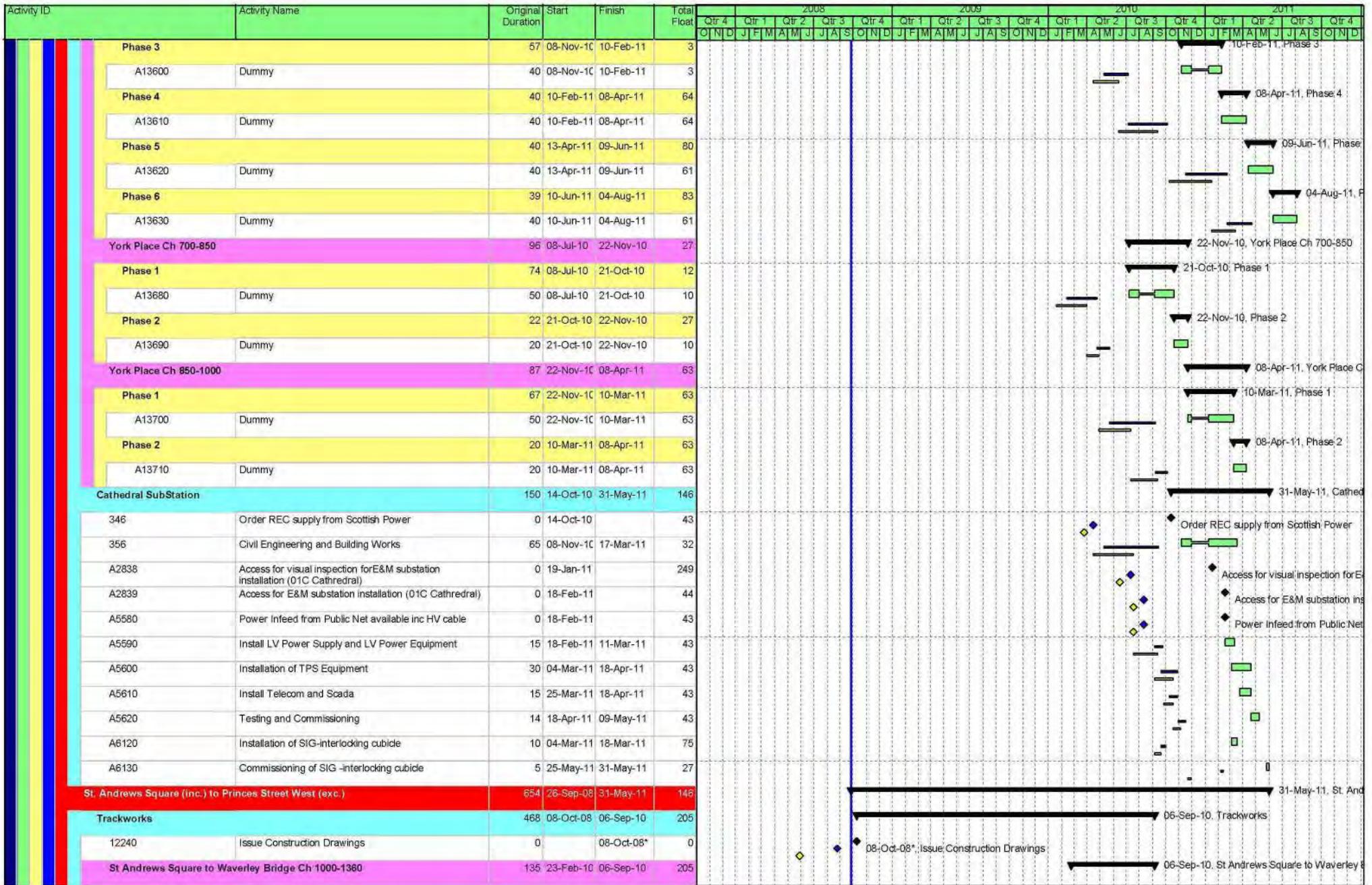
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						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J
1st half		18	26-Aug-10	21-Sep-10	10	▼ 21-Sep-10, 1st half																																	
A12930	Establish Traffic Management & Temp. Fending	2	26-Aug-10	30-Aug-10	10																																		
A12940	Excavate box	2	30-Aug-10	01-Sep-10	10																																		
A12950	Excavate, lay and concrete ducts	3	01-Sep-10	06-Sep-10	10																																		
A12960	Excavate and construct OLE bases	3	01-Sep-10	06-Sep-10	10																																		
A12980	Set Track (100m)	5	06-Sep-10	13-Sep-10	10																																		
A12990	Place upper concrete and cure	5	09-Sep-10	16-Sep-10	10																																		
A13000	Street Surface finishes	3	16-Sep-10	21-Sep-10	10																																		
2nd half		17	21-Sep-10	14-Oct-10	33	▼ 14-Oct-10, 2nd half																																	
A13330	Excavate box	2	21-Sep-10	23-Sep-10	10																																		
A13340	Excavate, lay and concrete ducts	3	23-Sep-10	28-Sep-10	10																																		
A13370	Set Track	5	28-Sep-10	05-Oct-10	10																																		
A13380	Place upper concrete and cure	5	01-Oct-10	08-Oct-10	33																																		
A13390	Street Surface finishes	3	08-Oct-10	13-Oct-10	33																																		
A13400	Remove fending and Traffic Management	1	13-Oct-10	14-Oct-10	33																																		
McDonald / Brunswick Road Ch 950-1250		91	14-Oct-10	07-Mar-11	27	▼ 07-Mar-11, McDonald / Brun ▼ 10-Dec-10, 1st half																																	
1st half		40	14-Oct-10	10-Dec-10	44																																		
A13010	Establish Traffic Management & Temp. Fending	2	14-Oct-10	18-Oct-10	33																																		
A13020	Excavate box	6	18-Oct-10	26-Oct-10	33																																		
A13030	Excavate, lay and concrete ducts	9	26-Oct-10	08-Nov-10	33																																		
A13040	Excavate and construct OLE bases	9	26-Oct-10	08-Nov-10	33																																		
A13060	Set Track (300m)	12	15-Nov-10	02-Dec-10	28																																		
A13070	Place upper concrete and cure	12	18-Nov-10	07-Dec-10	44																																		
A13080	Street Surface finishes	3	07-Dec-10	10-Dec-10	44																																		
2nd half		51	10-Dec-10	07-Mar-11	27	▼ 07-Mar-11, 2nd half																																	
A13410	Excavate box	6	10-Dec-10	20-Dec-10	44																																		
A13420	Excavate, lay and concrete ducts	9	20-Dec-10	14-Jan-11	44																																		
A13450	Set Track	12	08-Feb-11	24-Feb-11	27																																		
A13460	Place upper concrete and cure	12	11-Feb-11	01-Mar-11	27																																		
A13470	Street Surface finishes	3	01-Mar-11	04-Mar-11	27																																		
A13480	Remove fending and Traffic Management	1	04-Mar-11	07-Mar-11	27																																		
Leith Walk Railway Bridge (S18)		0	12-Apr-10	12-Apr-10	426	▼ 12-Apr-10, Leith Walk Railway Bridge (S18)																																	
26	Existing Structure	0		12-Apr-10	426	▼ 12-Apr-10, Existing Structure																																	
Roadworks		211	26-Sep-08	10-Aug-09	179	▼ 10-Aug-09, Roadworks																																	

Date	Revision	Checked	Approved
26-Sep-08		scs	

— V26 Baseline — V31 Baseline ■ Actual Work ■ Critical Remaining Work ◆ V31 Baseline Milestone ▼ Summary
 ■ Remaining Work ◆ V26 Baseline Milestone ◆ Milestone

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26-Sep-08		scs	

V26 Baseline Actual Work Critical Remaining Work V31 Baseline Milestone Summary
 V31 Baseline Remaining Work V26 Baseline Milestone Milestone

CEC00430660_0054

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2008				2009				2010				2011										
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						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
A13780	Excavate, lay and concrete ducts	54	12-Feb-09	29-Apr-09	278																							
A13790	Excavate and construct OLE bases	54	12-Feb-09	29-Apr-09	278																							
A13810	Set Track (950m)	54	17-Sep-09	06-Jan-10	3																							
A13820	Place Upper Concrete and Cure	54	22-Sep-09	11-Jan-10	148																							
A13830	Street Surface finishes	28	11-Jan-10	18-Feb-10	148																							
Shandwick Place (inc.) to Haymarket (exc.)		539	31-Oct-08	21-Jan-11	236																							
Shandwick Place Tram Stop		508	31-Oct-08	24-Nov-10	267																							
12300	Issue Construction Drawings	0	31-Oct-08*	0																								
588	Order REC Supply	0	07-Jun-10	388																								
640	Civil Engineering And Building Works	65	25-Feb-10	01-Jun-10	190																							
A2810	Deliver and Install Shelter	10	19-Jul-10	06-Sep-10	131																							
A4638	Access for visual inspection for E&M Tram Stop installation (01D Shadwick Place)	0	05-Aug-10	368																								
A4639	Access for E&M Tram Stop installation (01D Shadwick Place)	0	06-Sep-10	162																								
A4640	Install LV Power Supply and LV Power Equipment	25	06-Sep-10	11-Oct-10	131																							
A4650	Install Telecon Equipment	20	11-Oct-10	10-Nov-10	141																							
A4660	Install Station Control Equipment + AFC Equipment	25	11-Oct-10	17-Nov-10	131																							
A4670	Package Test Tramstop	5	17-Nov-10	24-Nov-10	131																							
Roadworks		539	31-Oct-08	21-Jan-11	125																							
12310	Issue Construction Drawings	0	31-Oct-08*	0																								
Haymarket Ch 1250-1125		353	05-Jan-09	08-Jun-10	288																							
Phase 1		17	05-Jan-09	27-Jan-09	99																							
A6390	Establish Traffic Management & Temp. Fencing	2	05-Jan-09	06-Jan-09	99																							
A6400	Remove island surfacing and exc. to formation	4	07-Jan-09	12-Jan-09	99																							
A6410	Construct Kerb lines	2	13-Jan-09	14-Jan-09	99																							
A6420	Move Gullies	2	15-Jan-09	16-Jan-09	99																							
A6430	Sub base	2	19-Jan-09	20-Jan-09	99																							
A6440	Roadbase/base course/wearing course/temp ramps	3	21-Jan-09	23-Jan-09	99																							
A6450	Pavement Works	5	15-Jan-09	21-Jan-09	102																							
A6460	White Lines	1	26-Jan-09	26-Jan-09	99																							
A6470	Street Lighting / Traffic Signals / Road Signs	5	15-Jan-09	21-Jan-09	102																							
A6475	Remove fencing and Traffic Management	1	27-Jan-09	27-Jan-09	99																							
Phase 2		21	28-Jan-09	25-Feb-09	99																							
A6480	Establish Traffic Management & Temp. Fencing	2	28-Jan-09	29-Jan-09	99																							
A6490	Excavate for new channel and kerb line / remove existing kerbs	2	30-Jan-09	02-Feb-09	99																							

Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline
 Actual Work
 Critical Remaining Work
◆ V31 Baseline Milestone
 Summary

Remaining Work
◇ V26 Baseline Milestone
◆ Milestone

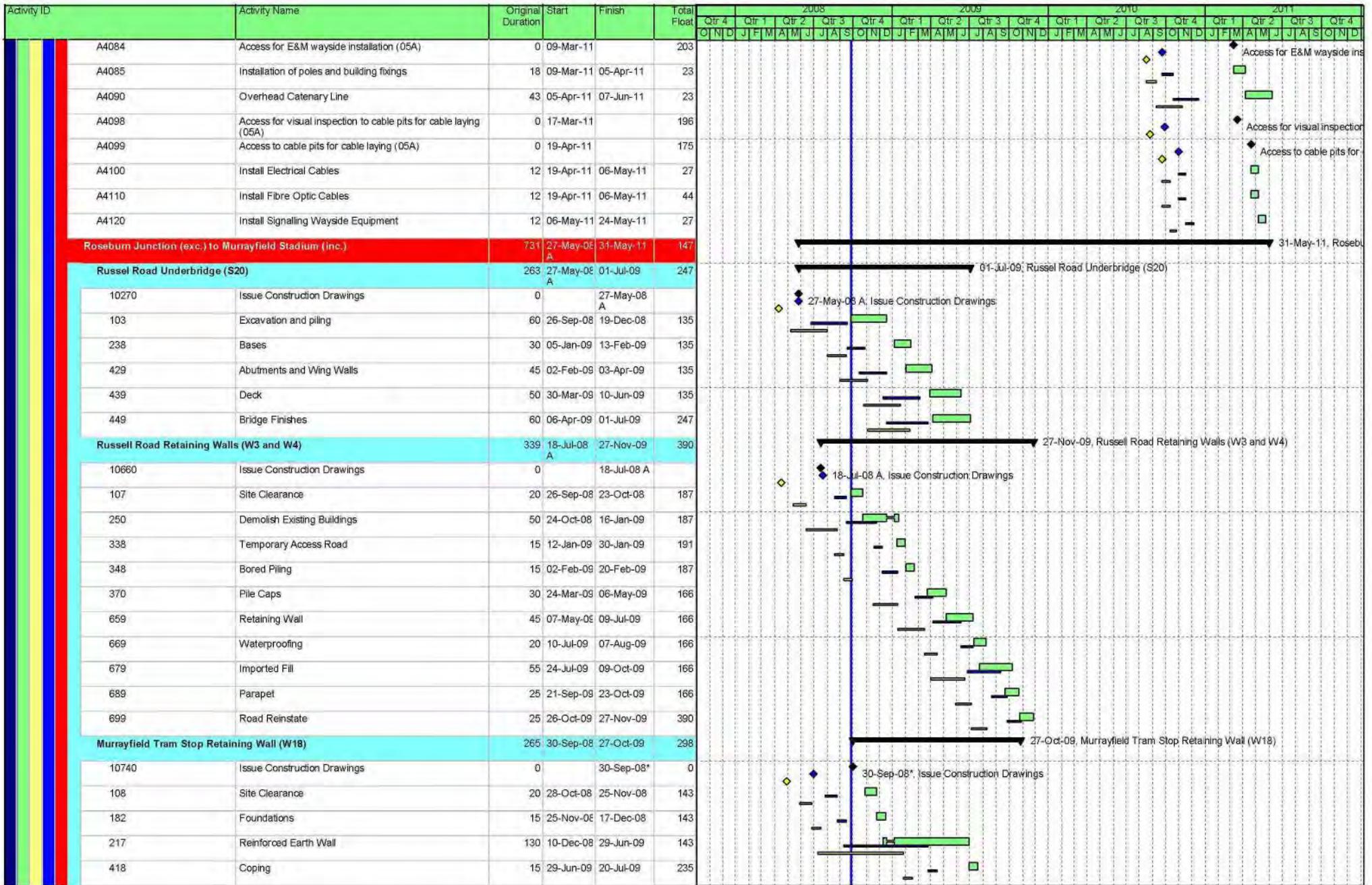
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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2008				2009				2010				2011									
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						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J
A6500	Construct Kerb lines	2	03-Feb-09	04-Feb-09	99																						
A6510	Reset Gullies	1	05-Feb-09	05-Feb-09	101																						
A6520	Surface new channel	1	06-Feb-09	06-Feb-09	101																						
A6540	Pavement Works	15	05-Feb-09	25-Feb-09	99																						
A6550	White Lines	1	09-Feb-09	09-Feb-09	101																						
A6560	Street Lighting / Traffic Signals / Road Signs	3	05-Feb-09	09-Feb-09	101																						
A6565	Remove fending and Traffic Management	1	12-Feb-09	12-Feb-09	99																						
Phase 4a		22	16-Sep-09	16-Oct-09	17																						
A6730	Establish Traffic Management & Temp. Fending	2	16-Sep-09	18-Sep-09	17																						
A6740	Remove island surfacing and exc. to formation	5	18-Sep-09	25-Sep-09	17																						
A6750	Construct Kerb lines	4	25-Sep-09	01-Oct-09	17																						
A6760	Move Gullies	2	01-Oct-09	05-Oct-09	17																						
A6770	Sub base	3	05-Oct-09	08-Oct-09	17																						
A6775	Plane off wearing course	1	08-Oct-09	09-Oct-09	17																						
A6780	Roadbase/base course/wearing course/temp ramps	3	09-Oct-09	14-Oct-09	17																						
A6790	Pavement Works	6	01-Oct-09	09-Oct-09	21																						
A6800	White Lines	1	14-Oct-09	15-Oct-09	17																						
A6810	Street Lighting / Traffic Signals / Road Signs	7	01-Oct-09	12-Oct-09	20																						
A6815	Remove fending and Traffic Management	1	15-Oct-09	16-Oct-09	17																						
Phase 4b		19	16-Oct-09	12-Nov-09	33																						
A6820	Establish Traffic Management & Temp. Fending	2	16-Oct-09	20-Oct-09	17																						
A6830	Remove island surfacing and exc. to formation	1	20-Oct-09	21-Oct-09	17																						
A6840	Construct Kerb lines	4	21-Oct-09	27-Oct-09	17																						
A6850	Move Gullies	2	27-Oct-09	29-Oct-09	17																						
A6860	Sub base	3	29-Oct-09	03-Nov-09	17																						
A6870	Plane off wearing course	1	03-Nov-09	04-Nov-09	17																						
A6880	Roadbase/base course/wearing course/temp ramps	3	04-Nov-09	09-Nov-09	17																						
A6890	Pavement Works	12	27-Oct-09	12-Nov-09	19																						
A6900	White Lines	1	09-Nov-09	10-Nov-09	17																						
A6910	Street Lighting / Traffic Signals / Road Signs	7	27-Oct-09	05-Nov-09	20																						
A6915	Remove fending and Traffic Management	1	10-Nov-09	11-Nov-09	17																						
Phase 6b		25	15-Feb-10	22-Mar-10	306																						
A7240	Establish Traffic Management & Temp. Fending	2	15-Feb-10	17-Feb-10	263																						
A7250	Excavate for new channel and kerb line / remove existing kerbs	2	17-Feb-10	19-Feb-10	263																						

Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline Actual Work Critical Remaining Work V31 Baseline Milestone Summary
 V31 Baseline Remaining Work V26 Baseline Milestone Milestone

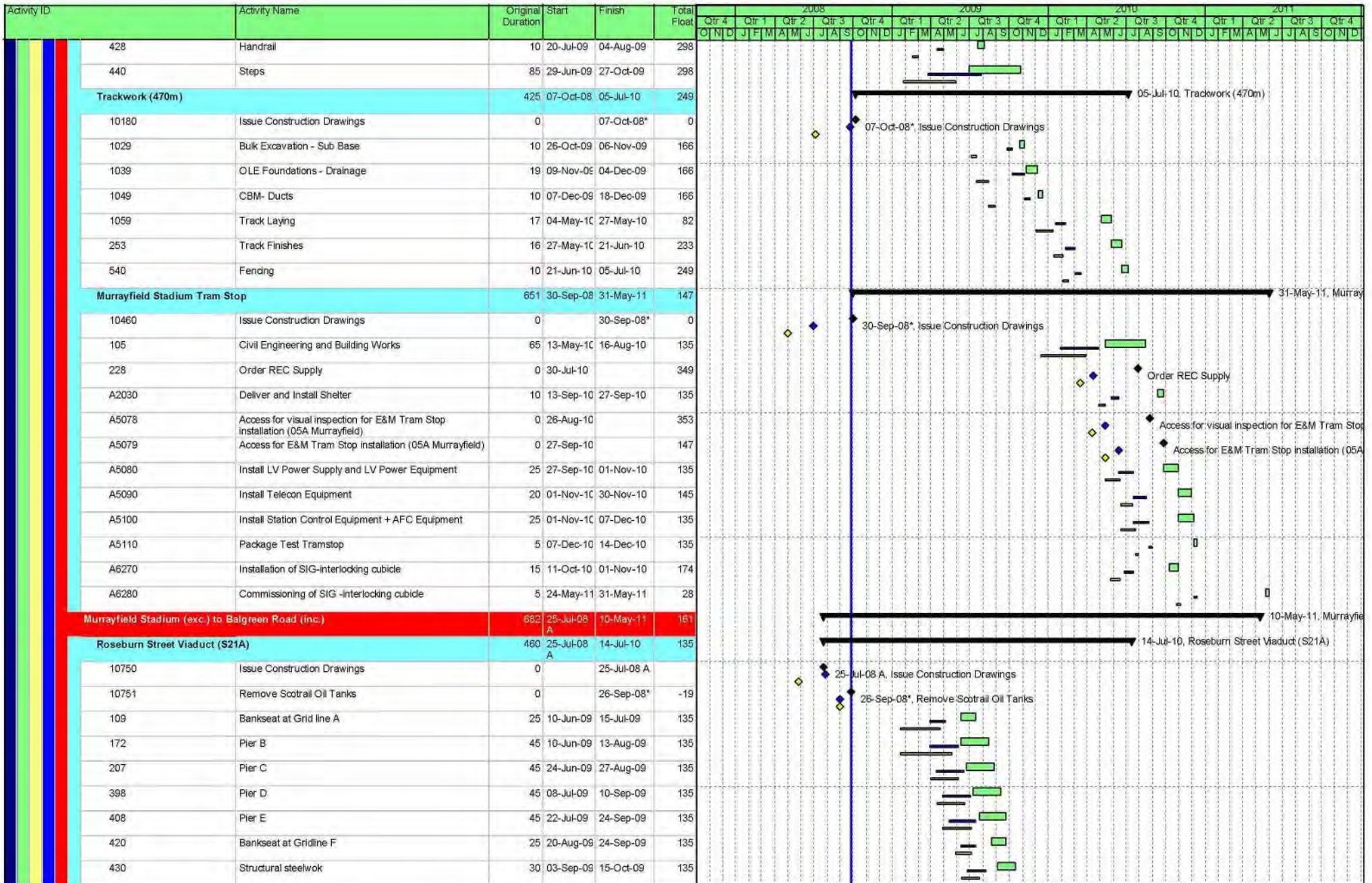
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Date	Revision	Checked	Approved
26-Sep-08		scs	

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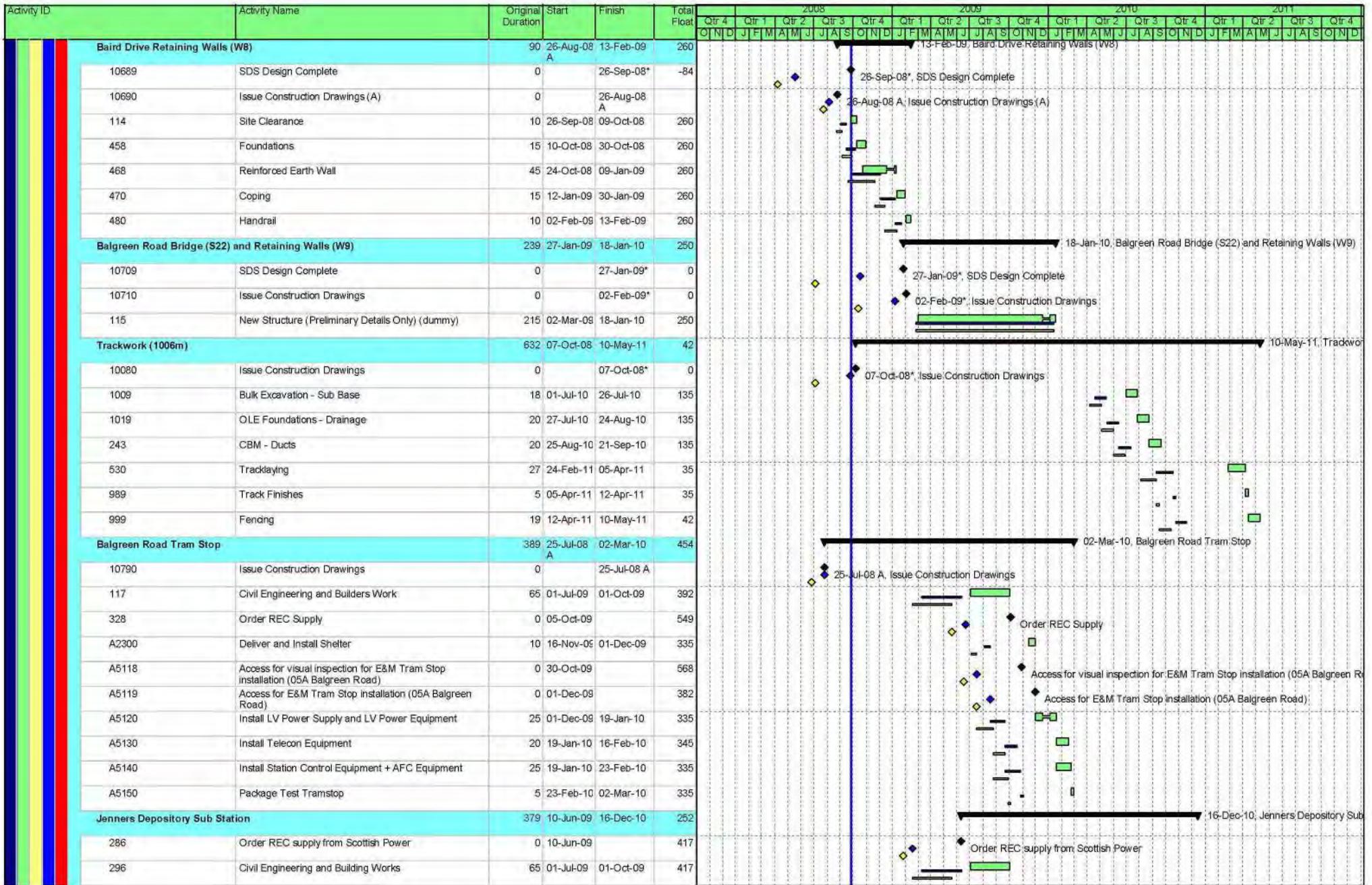


Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline
 Actual Work
 Critical Remaining Work
 ◆ V31 Baseline Milestone
 Summary

Remaining Work
 ◆ V26 Baseline Milestone
 ◆ Milestone

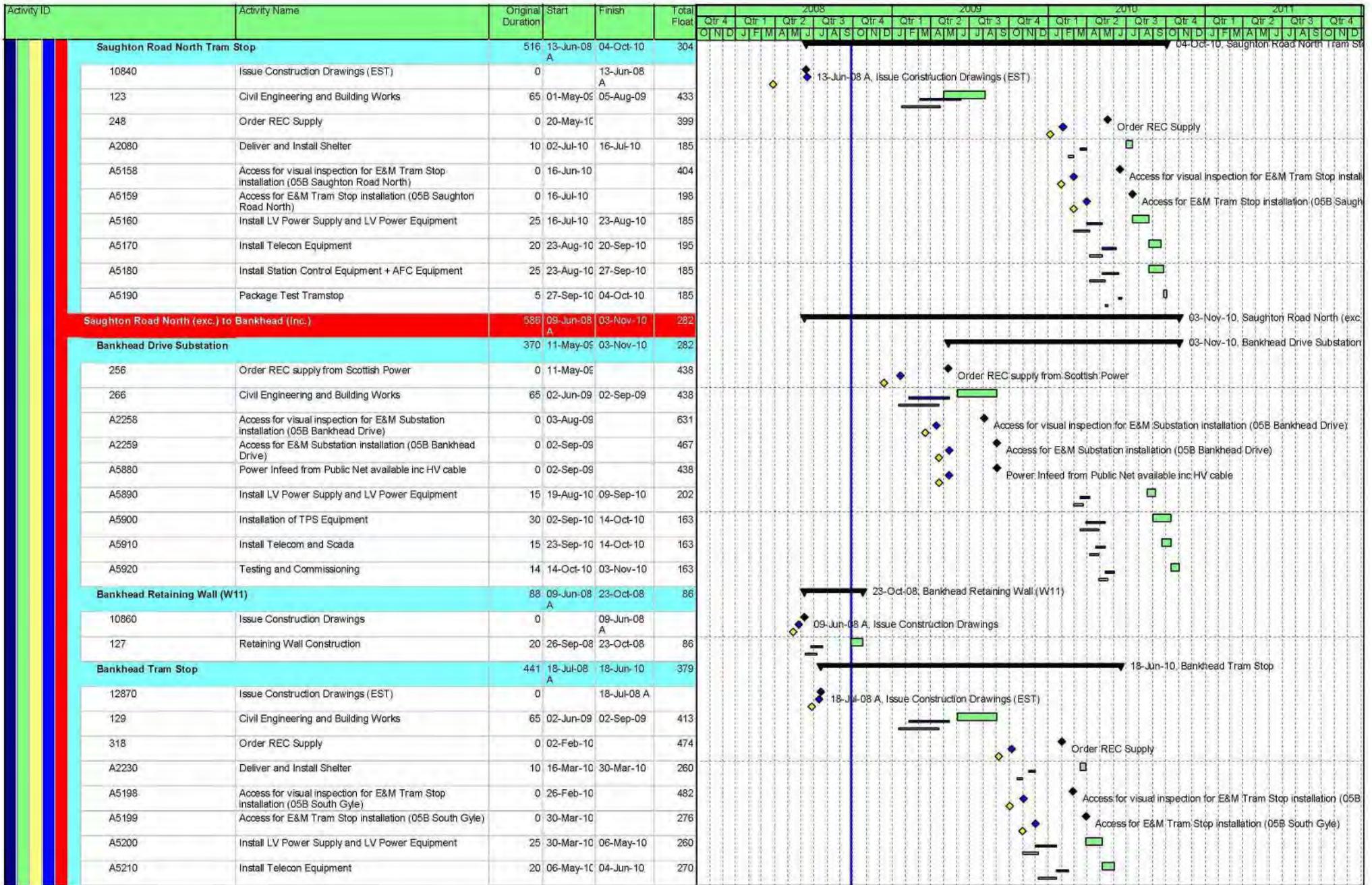
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Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline
 Actual Work
 Critical Remaining Work
◆ V31 Baseline Milestone
▼ Summary
 V31 Baseline
 Remaining Work
◆ V26 Baseline Milestone
◆ Milestone

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Date	Revision	Checked	Approved
26-Sep-08		scs	

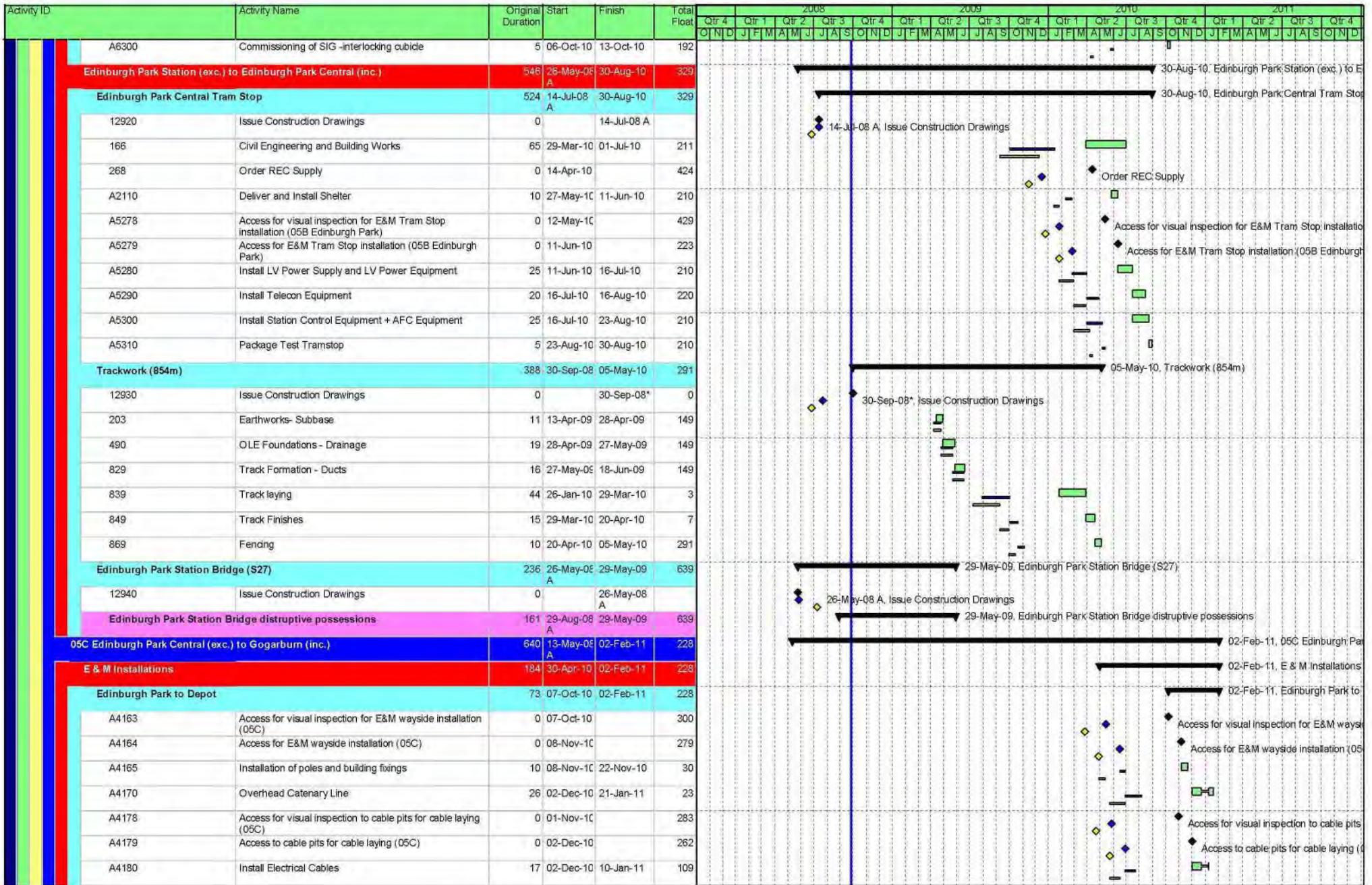
V26 Baseline
 Actual Work
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 V31 Baseline Milestone
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 Summary

Remaining Work
 V26 Baseline Milestone
 Milestone

CEC00430660_0074

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2008												2009												2010												2011											
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						O	N	D	J	F	M	A	M	J	J	J	A	S	O	N	D	J	F	M	A	M	J	J	J	A	S	O	N	D	J	F	M	A	M	J	J	J	A	S	O	N	D						
A5220	Install Station Control Equipment + AFC Equipment	25	06-May-10	11-Jun-10	260																																																
A5230	Package Test Tramstop	5	11-Jun-10	18-Jun-10	260																																																
South Gyle Access Bridge (S26)		158	26-Sep-08	26-May-09	3																																																
12880	Issue Construction Drawings	0	26-Sep-08*	-78																																																	
156	Substructure	83	24-Oct-08	05-Mar-09	3																																																
276	Superstructure	55	05-Mar-09	26-May-09	3																																																
Trackwork (1260m)		186	30-Sep-08	07-Jul-09	191																																																
12890	Issue Construction Drawings	0	30-Sep-08*	0																																																	
13000	Delay Start to Maintain Guided Bus Way	0	04-Nov-08*	102																																																	
223	Earthworks and Subbase	8	04-Nov-08	14-Nov-08	102																																																
510	OLE Foundations - Drainage - Ducts	28	14-Nov-08	08-Jan-09	291																																																
919	Track laying	29	20-Apr-09	02-Jun-09	3																																																
939	Fencing & Trackside Finishes	25	02-Jun-09	07-Jul-09	191																																																
Bankhead (exc.) to Edinburgh Park Station (inc.)		523	11-Jul-08	13-Oct-10	297																																																
Trackwork (790m)		129	30-Sep-08	15-Apr-09	560																																																
12900	Issue Construction Drawings	0	30-Sep-08*	0																																																	
213	Earthworks and Subbase	15	28-Oct-08	18-Nov-08	32																																																
500	OLE Foundations - Drainage	32	18-Nov-08	16-Jan-09	32																																																
859	Ducts and Bottom Ballast	16	16-Jan-09	09-Feb-09	32																																																
879	Track laying	20	09-Feb-09	09-Mar-09	32																																																
889	Top Ballast	10	09-Mar-09	23-Mar-09	272																																																
899	Fencing and Trackside finishes	16	23-Mar-09	15-Apr-09	550																																																
Edinburgh Park Station Tram Stop		523	11-Jul-08	13-Oct-10	297																																																
12910	Issue Construction Drawings (EST)	0	11-Jul-08 A																																																		
132	Civil Engineering and Builderworks	65	09-Mar-09	11-Jun-09	471																																																
278	Order REC Supply	0	24-Jul-09	599																																																	
A2140	Deliver and Install Shelter	10	07-Sep-09	21-Sep-09	385																																																
A5238	Access for visual inspection for E&M Tram Stop installation (05B Edinburgh Park Station)	0	20-Aug-09	618																																																	
A5239	Access for E&M Tram Stop installation (05B Edinburgh Park Station)	0	21-Sep-09	412																																																	
A5240	Install LV Power Supply and LV Power Equipment	25	21-Sep-09	26-Oct-09	385																																																
A5250	Install Telecon Equipment	20	26-Oct-09	23-Nov-09	395																																																
A5260	Install Station Control Equipment + AFC Equipment	25	26-Oct-09	01-Dec-09	385																																																
A5270	Package Test Tramstop	5	01-Dec-09	08-Dec-09	385																																																
A6290	Installation of SIG-interlocking cubicle	15	05-Oct-09	26-Oct-09	439																																																

Date	Revision	Checked	Approved	Page 44 of 53	V26 Baseline V31 Baseline	Actual Work Remaining Work	Critical Remaining Work V26 Baseline Milestone Milestone	V31 Baseline Milestone Summary
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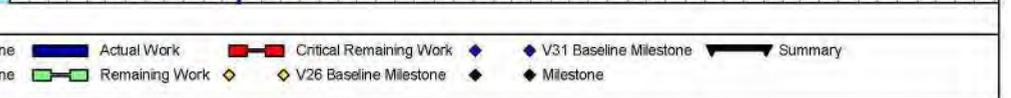
Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline
 Actual Work
 Critical Remaining Work
◆ V31 Baseline Milestone
 Summary

Remaining Work
◇ V26 Baseline Milestone
◆ Milestone

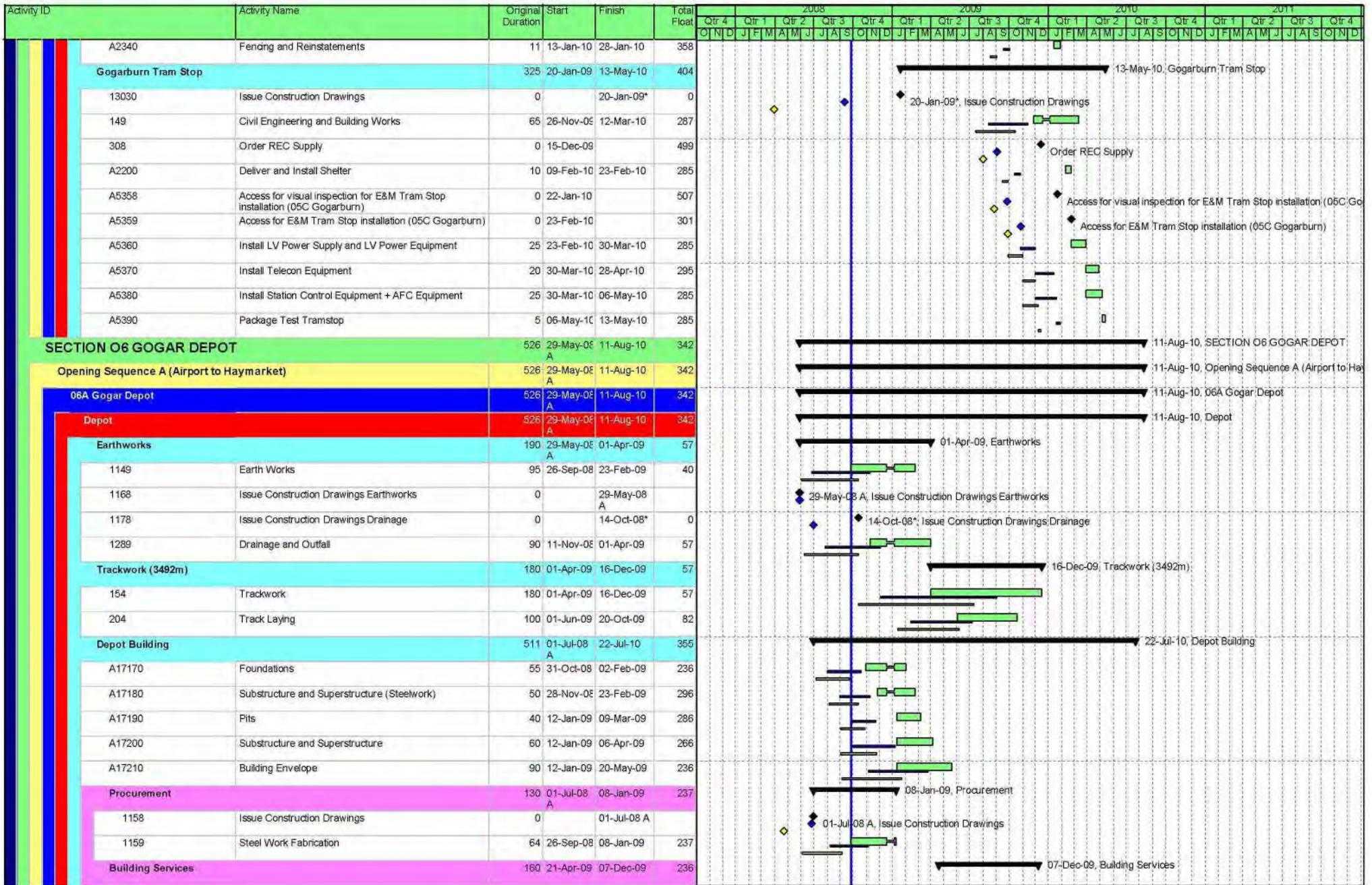
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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2008				2009				2010				2011					
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						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
A4190	Install Fibre Optic Cables	17	02-Dec-10	10-Jan-11	126																		
A4200	Install Signalling Wayside Equipment	17	10-Jan-11	02-Feb-11	109																		
Depot to Gogarburn		43	30-Apr-10	02-Jul-10	369																		
A16900	Access for visual inspection for E&M wayside installation (05C)	0	30-Apr-10		411																		
A16910	Access for E&M wayside installation (05C)	0	03-Jun-10		390																		
A16920	Installation of poles and building fixings	5	03-Jun-10	10-Jun-10	57																		
A16930	Overhead Catenary Line	11	10-Jun-10	25-Jun-10	57																		
A16940	Access for visual inspection to cable pits for cable laying (05C)	0	10-May-10		406																		
A16950	Access to cable pits for cable laying (05C)	0	10-Jun-10		385																		
A16960	Install Electrical Cables	8	10-Jun-10	22-Jun-10	250																		
A16970	Install Fibre Optic Cables	8	10-Jun-10	22-Jun-10	258																		
A16980	Install Signalling Wayside Equipment	8	22-Jun-10	02-Jul-10	250																		
Edinburgh Park (exc.) to Gyle Centre (inc.)		389	13-May-08	26-Jan-10	479																		
Trackwork (760m)		166	14-Oct-08	23-Jun-09	503																		
12950	Issue Construction Drawings	0	14-Oct-08*		0																		
140	Earthworks and Subbase	20	11-Nov-08	10-Dec-08	106																		
183	OLE Foundations - Drainage	30	10-Dec-08	04-Feb-09	106																		
779	Track Formation and Ducts	16	04-Feb-09	26-Feb-09	106																		
789	Track laying	20	26-Mar-09	24-Apr-09	106																		
799	Track Finishes	24	24-Apr-09	01-Jun-09	424																		
809	Road Crossings	20	26-Feb-09	26-Mar-09	106																		
819	Fencing	16	01-Jun-09	23-Jun-09	503																		
Gyle Centre Tram Stop		321	11-Sep-08	26-Jan-10	479																		
12960	Issue Construction Drawings (EST)	0	11-Sep-08																				
141	Civil Engineering and Building Works	65	24-Apr-09	28-Jul-09	438																		
298	Order REC Supply	0	31-Aug-09		574																		
A2170	Deliver and Install Shelter	10	12-Oct-09	26-Oct-09	360																		
A5318	Access for visual inspection for E&M Tram Stop installation (05C Gyle)	0	24-Sep-09		593																		
A5319	Access for E&M Tram Stop installation (05C Gyle)	0	26-Oct-09		387																		
A5320	Install LV Power Supply and LV Power Equipment	25	26-Oct-09	01-Dec-09	360																		
A5330	Install Telecon Equipment	20	01-Dec-09	12-Jan-10	370																		
A5340	Install Station Control Equipment + AFC Equipment	25	01-Dec-09	19-Jan-10	360																		
A5350	Package Test Tramstop	5	19-Jan-10	26-Jan-10	360																		
Gyle Centre Tram Stop Retaining Wall (W16)		88	13-May-08	23-Oct-08	118																		

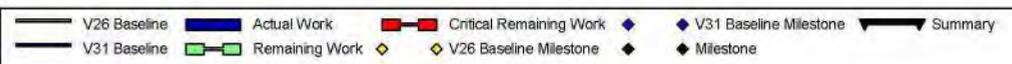


Date	Revision	Checked	Approved
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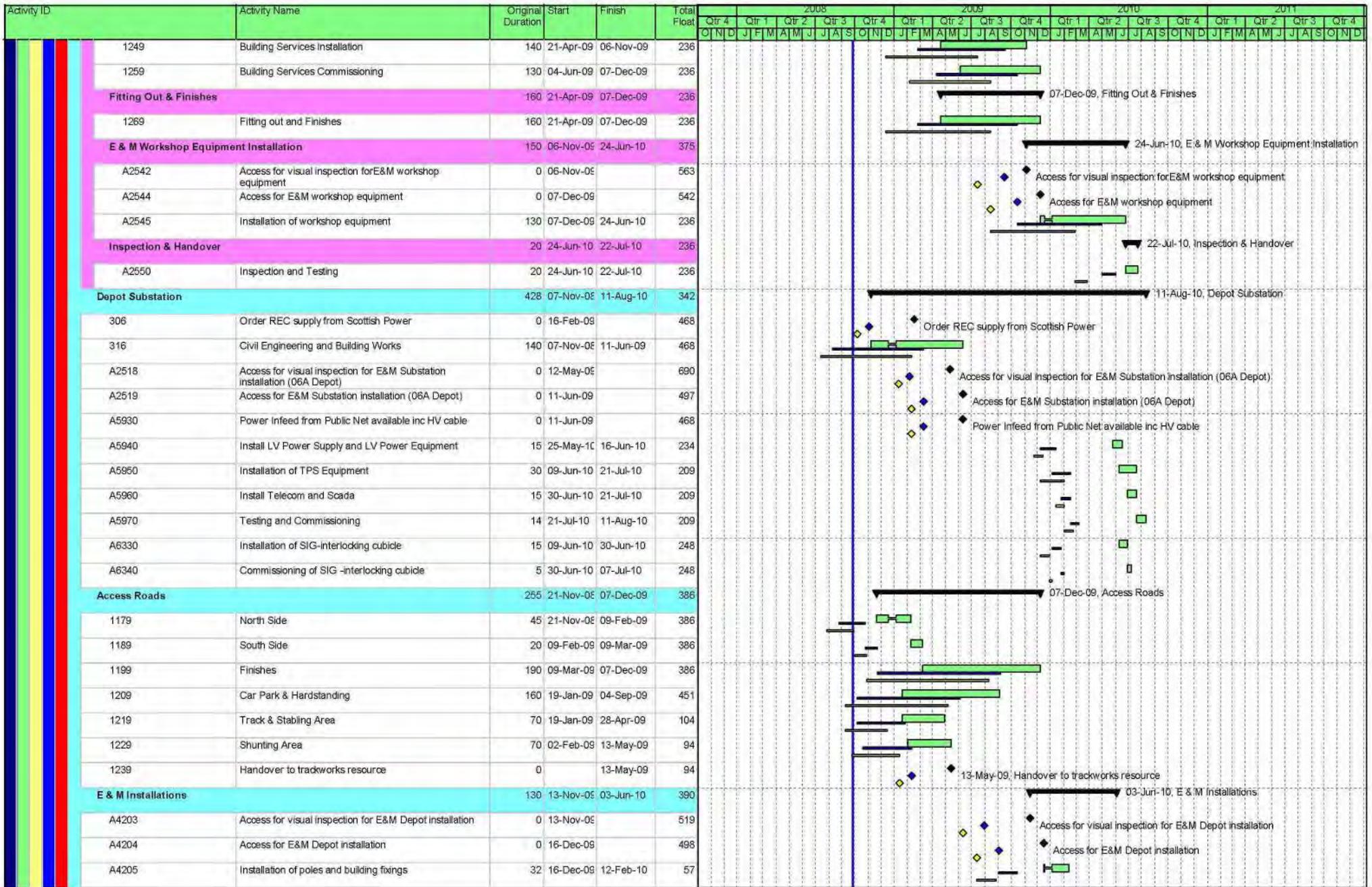
- V26 Baseline
- V31 Baseline
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
- ◆ V31 Baseline Milestone
- ◆ Milestone
- ▶ Summary



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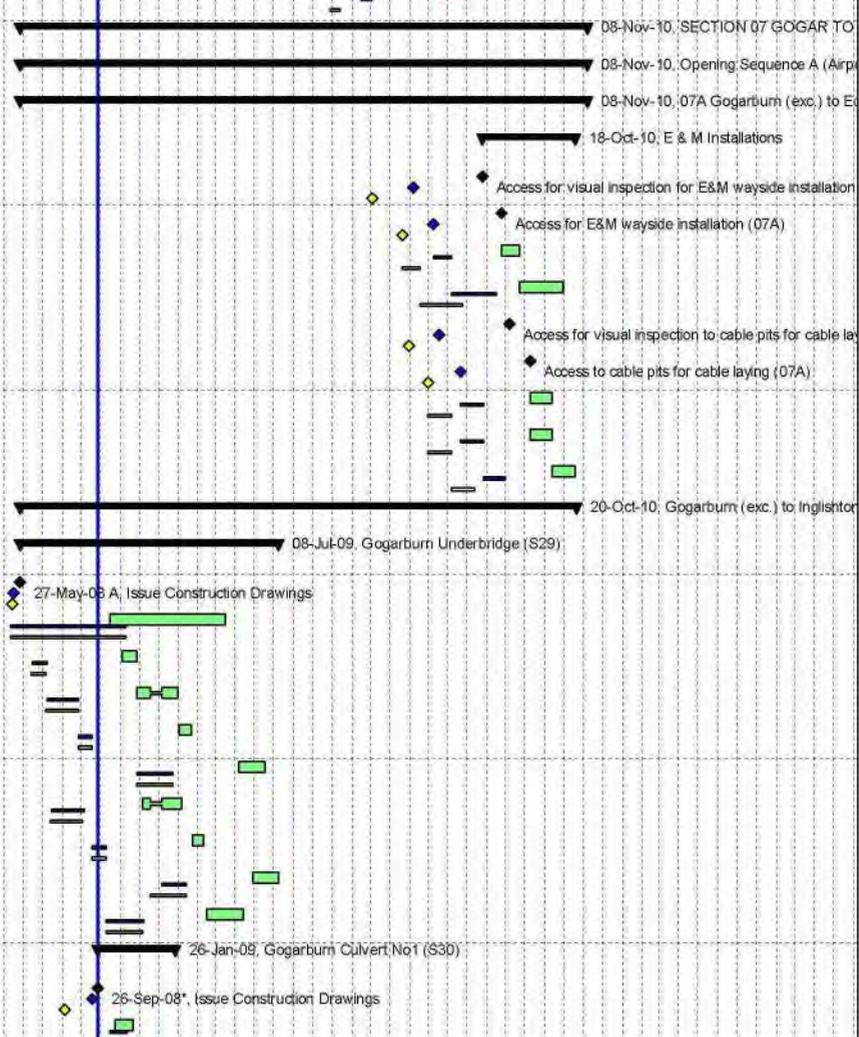


Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline Actual Work Critical Remaining Work V31 Baseline Milestone Summary
 V31 Baseline Remaining Work V26 Baseline Milestone Milestone

CEC00430660_0080

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2008												2009												2010												2011											
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A4210	Overhead Catenary Line	76	12-Feb-10	03-Jun-10	67																																																
A4218	Access for visual inspection to cable pits for cable laying (Depot)	0	27-Jan-10		477																																																
A4219	Access to cable pits for cable laying (Depot)	0	26-Feb-10		456																																																
A4220	Install Electrical Cables	12	26-Feb-10	16-Mar-10	294																																																
A4230	Install Fibre Optic Cables	12	26-Feb-10	16-Mar-10	325																																																
A4240	Install Signalling Wayside Equipment	12	16-Mar-10	01-Apr-10	294																																																
SECTION 07 GOGAR TO EDINBURGH AIRPORT																																																					
Opening Sequence A (Airport to Haymarket)																																																					
07A Gogarburn (exc.) to Edinburgh Airport (inc.)																																																					
E & M Installations																																																					
A4243	Access for visual inspection for E&M wayside installation (07A)	0	25-May-10		395																																																
A4244	Access for E&M wayside installation (07A)	0	25-Jun-10		374																																																
A4245	Installation of poles and building fixings	20	25-Jun-10	23-Jul-10	57																																																
A4250	Overhead Catenary Line	48	23-Jul-10	30-Sep-10	57																																																
A4258	Access for visual inspection to cable pits for cable laying (07A)	0	07-Jul-10		365																																																
A4259	Access to cable pits for cable laying (07A)	0	09-Aug-10		344																																																
A4260	Install Electrical Cables	25	09-Aug-10	13-Sep-10	170																																																
A4270	Install Fibre Optic Cables	25	09-Aug-10	13-Sep-10	200																																																
A4280	Install Signalling Wayside Equipment	25	13-Sep-10	18-Oct-10	170																																																
Gogarburn (exc.) to Inglishton Park & Ride (inc.)																																																					
Gogarburn Underbridge (S29)																																																					
13040	Issue Construction Drawings	0		27-May-08																																																	
13041	Treat area of contaminated land (Dummy duration)	130	16-Oct-08	16-Apr-09	149																																																
159	Temporary Access Roads-Bulk Excavation-Piling Platform	16	04-Nov-08	26-Nov-08	101																																																
179	East Abutment-Piles and Columns	36	27-Nov-08	30-Jan-09	89																																																
189	East Abutment-Reinforced Earth	15	02-Feb-09	20-Feb-09	89																																																
199	East Abutment-Parapets and Run on Slabs	29	07-May-09	17-Jun-09	89																																																
209	West Abutment-Piles and Columns	36	05-Dec-08	06-Feb-09	99																																																
219	West Abutment-Reinforced Earth	15	23-Feb-09	13-Mar-09	89																																																
229	West Abutment-Parapets and Run on Slabs	29	29-May-09	08-Jul-09	89																																																
239	Bridge Deck	41	16-Mar-09	13-May-09	89																																																
Gogarburn Culvert No1 (S30)																																																					
13050	Issue Construction Drawings	0		26-Sep-08*	-7																																																
160	Temporary Access Roads-Divert Flows-Bulk Excavation	19	24-Oct-08	20-Nov-08	219																																																



Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline Actual Work Critical Remaining Work V31 Baseline Milestone Summary
 V31 Baseline Remaining Work V26 Baseline Milestone Milestone

CEC00430660_0081

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2008												2009												2010												2011											
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Enabling Works						04-Nov-08, Enabling Works																																															
A2000	Site and Vegetation Clearance	28	26-Sep-08	04-Nov-08	90	[Gantt bar]																																															
Tram						20-Oct-10, Tram																																															
A6380	Track Testing of Tram	20	30-Sep-10	20-Oct-10	261	[Gantt bar]																																															
Ingliston Park & Ride (exc.) to Edinburgh Airport (inc.)						08-Nov-10, Ingliston Park & Ride (exc.)																																															
Enabling Works						30-Jan-09, Enabling Works																																															
A1920	Construct New Hotel Car Park	20	05-Jan-09	30-Jan-09	217	[Gantt bar]																																															
A1930	Site and Vegetation Clearance	28	26-Sep-08	04-Nov-08	269	[Gantt bar]																																															
Gogarburn Retaining Wall (W14)						27-May-09, Gogarburn Retaining Wall (W14)																																															
12079	SDS Design Complete	0	26-Sep-08*	-20	[Milestone]																																																
13080	Issue Construction Drawings	0	17-Nov-08*	0	[Milestone]																																																
167	Gogarburn Retaining Wall (W14)	80	02-Feb-09	27-May-09	217	[Gantt bar]																																															
Gogarburn Culvert No2 (S31)						23-Feb-09, Gogarburn Culvert No2 (S31)																																															
13090	Issue Construction Drawings	0	26-Sep-08*	-7	[Milestone]																																																
165	Divert Flows-Bulk Excavation	7	20-Nov-08	02-Dec-08	275	[Gantt bar]																																															
309	Precast Culvert Units	5	02-Dec-08	09-Dec-08	275	[Gantt bar]																																															
319	Reinforced Concrete Apron and Wingwalls	20	09-Jan-09	06-Feb-09	262	[Gantt bar]																																															
329	Backfill and Finishes	11	06-Feb-09	23-Feb-09	282	[Gantt bar]																																															
Gogarburn Culvert No3 (S34)						23-Mar-09, Gogarburn Culvert No3 (S34)																																															
13100	Issue Construction Drawings	0	26-Sep-08*	-11	[Milestone]																																																
196	Divert Flows-Bulk Excavation	6	02-Dec-08	10-Dec-08	289	[Gantt bar]																																															
279	Precast Culvert Units	5	10-Dec-08	17-Dec-08	289	[Gantt bar]																																															
289	Reinforced Concrete Apron and Wingwalls	20	06-Feb-09	06-Mar-09	262	[Gantt bar]																																															
299	Backfill and Finishes	11	06-Mar-09	23-Mar-09	262	[Gantt bar]																																															
Trackwork (833m)						11-Jun-10, Trackwork (833m)																																															
12109	SDS Design Complete	0	26-Sep-08*	-84	[Milestone]																																																
13110	Issue Construction Drawings	0	17-Nov-08*	0	[Milestone]																																																
168	Earthworks and Subbase	15	24-Nov-08	15-Dec-09	90	[Gantt bar]																																															
369	Drainage and OLE Foundations	33	16-Dec-09	12-Feb-10	90	[Gantt bar]																																															
379	Bottom Ballast and Ducts	16	15-Feb-10	08-Mar-10	90	[Gantt bar]																																															
389	Track Laying	30	19-Mar-10	04-May-10	82	[Gantt bar]																																															
A1910	Top Ballast	10	04-May-10	18-May-10	285	[Gantt bar]																																															
A2350	Fencing & Trackside Finishes	17	18-May-10	11-Jun-10	285	[Gantt bar]																																															
Edinburgh Airport Tram Stop						08-Nov-10, Edinburgh Airport Tram Stop																																															

Date	Revision	Checked	Approved
26-Sep-08		scs	

V26 Baseline Actual Work Critical Remaining Work V31 Baseline Milestone Summary
 V31 Baseline Remaining Work V26 Baseline Milestone Milestone

CEC00430660_0083

10.3 Look Ahead Programme

Period 7 Progress Report Programme Amendments and Comments

Activity ID / Name	Issue	Comment
Leith Walk 01B Ch.350-100	Additional detail added	Northbound and Southbound Work commences 01 Oct 08
Leith Walk 01C Ch.0-375	Additional detail added	Northbound and Southbound Work commences 31 Oct 08
A17430/A6530 - Prep for Princes St / Haymarket Junction Works	First review meeting took place 30 Sept 08	
1139 - Bankseat (East Abutment) and two Piers	Haymarket Station Viaduct On hold due to re-design of Temporary/Permanent Works	Re-design required of Temp and Permanent Works. Construction progressing on other two piers
	Trackwork	Site Clearance starting 29 Sept 08.
10280 – Temp Works Design	Russell Road Bridge SI insufficient for Temp Works design.	Additional SI to be carried out. Form C Submission estimated 17 Oct 08.
10780 – Temp Works Design	Murrayfield Tram Stop No construction due to Roseburn VE exercise	Linked to consideration of "Option A"
10720 – IFC Drawings	Murrayfield Stadium Underpass Awaiting Re-design by SDS following further GI	Change of Works from Design Freeze to IFC Drawings.
Temp Works Design	Carrick Knowe Bridge GI insufficient for Temporary Works Designer.	Additional GI to be carried out. Form C Submission estimated 06 Oct 08. HV cable to be addressed.
13150 – Re-design to avoid sewer	South Gyle Access Bridge Item abandoned	A sewer diversion is being assessed.
A17340 – Temp Works Design	Edinburgh Pk Stn Bridge Unforeseen Ground Conditions	Deeper excavation to suitable formation required. Additional unsuitable material

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		removed and replaced with structural fill – ongoing (North Abutment and Piers 5, 6) Temporary Works being re-designed. Ground Survey required at Novotel.
Edinburgh Park to Gyle Centre	Trackwork	Soil Strip started.
Gyle Centre Tram Stop Retaining Wall (W16)	Works on Hold awaiting MUDFA completion	
143 – Phase 1	A8 Underpass Started 1 Sept 08	Period mostly dealing with diversion of existing services.
1149 - Earthworks	Depot MUDFA	Start now planned for 13 Oct 08.
1159 – Procurement	No known problems	
Gogarburn Underbridge		Works in progress



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10.4 Tram Programme



SUPPLY OF 27 TRAMS FOR THE EDINBURGH TRAM NETWORK
PROJECT PLANNING up to 30 of September

Id	Name	%	Start	Finish	2008												2009												2010												2011											
					M	A	M	J	J	A	S	O	N	D	E	F	M	A	M	J	J	A	S	O	N	D	E	F	M	A	M	J	J	A	S	O	N	D	E	F	M	A	M	J	J							
1	GENERAL	100%	06/05/08	06/05/08																																																
2	NTP	100%	06/05/08	06/05/08																																																
3	ENGINEERING	40%	06/05/08	15/05/09																																																
4	BASIC ENGINEERING	73%	06/05/08	13/11/08																																																
5	MOCK-UP	81%	13/05/08	03/11/08																																																
6	DESIGN & MANUFACTURING MOCK-UP	100%	13/05/08	29/09/08																																																
7	APPROVAL MOCK-UP	4%	30/09/08	03/11/08																																																
8	UNDERFRAME DESIGN	54%	01/07/08	24/11/08																																																
9	CARBODY DESIGN	28%	28/08/08	08/01/09																																																
10	LIST OF STEEL MATERIALS	100%	11/06/08	11/06/08																																																
11	INSTALLATIONS DESIGN	1%	30/09/08	13/04/09																																																
12	INTERIORS & FINISHING DESIGN	0%	25/11/08	15/05/09																																																
13	BOGIES DESIGN	32%	23/07/08	15/01/09																																																
14	1st TRAMSET PROCUREMENT	27%	06/05/08	01/07/09																																																
15	SYSTEMS	36%	06/05/08	01/07/09																																																
16	SPECIFICATIONS	100%	08/05/08	04/06/08																																																
17	SELECTION OF SUPPLIERS	100%	21/05/08	01/07/08																																																
18	ORDERS	100%	17/06/08	29/07/08																																																
19	INTERFACE 1- Systems Interface Basic Definition	70%	30/07/08	15/10/08																																																
20	INTERFACE 2- Systems Interface Complete Definition	9%	25/09/08	24/11/08																																																
21	MANUFACTURING & PURCHASING & TESTING	21%	27/06/08	01/07/09																																																
22	DELIVERY PREASSEMBLIES COMPONENTS	0%	15/04/09	15/04/09																																																
23	DELIVERY FIRST EQUIPMENT	0%	15/04/09	01/07/09																																																
24	OTHERS COMPONENTS & MATERIALS	16%	11/06/08	25/06/09																																																
25	STEEL MATERIALS	61%	11/06/08	24/11/08																																																
26	CARBODY COMPONENTS	0%	24/10/08	16/03/09																																																
27	INSTALLATIONS COMPONENTS	0%	16/12/08	08/05/09																																																
28	INTERIORS & FINISHING COMPONENTS	0%	17/02/09	25/08/09																																																
29	1st TRAM MANUFACTURING & TESTING	0%	14/11/08	04/06/10																																																
30	BODYSHELLS MANUFACTURING	0%	14/11/08	02/06/09																																																
31	JIGS & TOOLING MANUFACTURING	0%	14/11/08	16/03/09																																																
32	FRAME TOOLING	0%	14/11/08	09/02/09																																																
33	BODYSHELL TOOLING	0%	12/01/09	16/03/09																																																
34	1st BODYSHELL MANUFACTURING	0%	25/11/08	16/04/09																																																
35	FIRST PIECES LOT	0%	25/11/08	07/01/09																																																
36	FRAME'S SUBASSEMBLIES	0%	08/01/09	06/02/09																																																
37	FRAME ASSEMBLY & WELDING	0%	09/02/09	12/03/09																																																
38	FRAME FAI	0%	13/03/09	13/03/09																																																
39	BODYSHELL'S SUBASSEMBLIES	0%	09/02/09	13/03/09																																																
40	BODYSHELL ASSEMBLY & WELDING	0%	16/03/09	15/04/09																																																
41	BODYSHELL FAI	0%	16/04/09	16/04/09																																																
42	REMAINING BODYSHELLS MANUFACTURING	0%	18/02/09	02/06/09																																																
43	2nd BODYSHELL MANUFACTURING	0%	18/02/09	22/04/09																																																

Bus Tracker information missing

CEC00430660_0088



SUPPLY OF 27 TRAMS FOR THE EDINBURGH TRAM NETWORK
PROJECT PLANNING up to 30 of September

Id	Name	%	Start	Finish	2008												2009												2010												2011											
					M	A	M	J	J	A	S	O	N	D	E	F	M	A	M	J	J	A	S	O	N	D	E	F	M	A	M	J	J	A	S	O	N	D	E	F	M	A	M	J	J							
67	REMAINING TRAM'S	0%	18/03/09	04/02/11	[Gantt bar from March 2009 to February 2011]																																															
68	2nd Tram	0%	18/03/09	04/06/10	[Gantt bar from March 2009 to June 2010]																																															
69	BODYSHELLS MANUFACTURING & FINISHING	0%	18/03/09	24/12/09	[Task bar from March 2009 to December 2009]																																															
70	FACTORY & DYNAMIC TESTS	0%	09/12/09	19/04/10	[Task bar from December 2009 to April 2010]																																															
71	TRANSPORT	0%	19/04/10	10/05/10	[Task bar from April 2010 to May 2010]																																															
72	DELIVERY OF THE TRAM	0%	10/05/10	10/05/10	[Task bar from May 2010 to May 2010]																																															
73	COMMISSIONING OF THE TRAM	0%	10/05/10	04/06/10	[Task bar from May 2010 to June 2010]																																															
74	3rd Tram	0%	07/04/09	04/06/10	[Gantt bar from April 2009 to June 2010]																																															
75	BODYSHELLS MANUFACTURING & FINISHING	0%	07/04/09	20/01/10	[Task bar from April 2009 to January 2010]																																															
76	FACTORY & DYNAMIC TESTS	0%	05/01/10	19/04/10	[Task bar from January 2010 to April 2010]																																															
77	TRANSPORT	0%	19/04/10	10/05/10	[Task bar from April 2010 to May 2010]																																															
78	DELIVERY OF THE TRAM	0%	10/05/10	10/05/10	[Task bar from May 2010 to May 2010]																																															
79	COMMISSIONING OF THE TRAM	0%	10/05/10	04/06/10	[Task bar from May 2010 to June 2010]																																															
80	4th Tram	0%	29/04/09	04/06/10	[Gantt bar from April 2009 to June 2010]																																															
81	BODYSHELLS MANUFACTURING & FINISHING	0%	29/04/09	09/02/10	[Task bar from April 2009 to February 2010]																																															
82	FACTORY & DYNAMIC TESTS	0%	25/01/10	19/04/10	[Task bar from January 2010 to April 2010]																																															
83	TRANSPORT	0%	19/04/10	10/05/10	[Task bar from April 2010 to May 2010]																																															
84	DELIVERY OF THE TRAM	0%	10/05/10	10/05/10	[Task bar from May 2010 to May 2010]																																															
85	COMMISSIONING OF THE TRAM	0%	10/05/10	04/06/10	[Task bar from May 2010 to June 2010]																																															
86	5th Tram	0%	20/05/09	04/06/10	[Gantt bar from May 2009 to June 2010]																																															
87	BODYSHELLS MANUFACTURING & FINISHING	0%	20/05/09	01/03/10	[Task bar from May 2009 to March 2010]																																															
88	FACTORY & DYNAMIC TESTS	0%	12/02/10	19/04/10	[Task bar from February 2010 to April 2010]																																															
89	TRANSPORT	0%	19/04/10	10/05/10	[Task bar from April 2010 to May 2010]																																															
90	DELIVERY OF THE TRAM	0%	10/05/10	10/05/10	[Task bar from May 2010 to May 2010]																																															
91	COMMISSIONING OF THE TRAM	0%	10/05/10	04/06/10	[Task bar from May 2010 to June 2010]																																															
92	6th Tram	0%	19/06/09	05/07/10	[Gantt bar from June 2009 to July 2010]																																															
93	BODYSHELLS MANUFACTURING & FINISHING	0%	19/06/09	16/03/10	[Task bar from June 2009 to March 2010]																																															
94	FACTORY TESTS	0%	26/02/10	01/06/10	[Task bar from February 2010 to June 2010]																																															
95	TRANSPORT	0%	01/06/10	15/06/10	[Task bar from June 2010 to June 2010]																																															
96	DELIVERY OF THE TRAM	0%	15/06/10	15/06/10	[Task bar from June 2010 to June 2010]																																															
97	COMMISSIONING OF THE TRAM	0%	15/06/10	05/07/10	[Task bar from June 2010 to July 2010]																																															
98	7th Tram	0%	21/07/09	05/07/10	[Gantt bar from July 2009 to July 2010]																																															
99	BODYSHELLS MANUFACTURING & FINISHING	0%	21/07/09	31/03/10	[Task bar from July 2009 to March 2010]																																															
100	FACTORY TESTS	0%	15/03/10	01/06/10	[Task bar from March 2010 to June 2010]																																															
101	TRANSPORT	0%	01/06/10	15/06/10	[Task bar from June 2010 to June 2010]																																															
102	DELIVERY OF THE TRAM	0%	15/06/10	15/06/10	[Task bar from June 2010 to June 2010]																																															
103	COMMISSIONING OF THE TRAM	0%	15/06/10	05/07/10	[Task bar from June 2010 to July 2010]																																															
104	8th Tram	0%	17/09/09	04/08/10	[Gantt bar from September 2009 to August 2010]																																															
105	BODYSHELLS MANUFACTURING & FINISHING	0%	17/09/09	15/04/10	[Task bar from September 2009 to April 2010]																																															
106	FACTORY TESTS	0%	30/03/10	01/07/10	[Task bar from March 2010 to July 2010]																																															
107	TRANSPORT	0%	01/07/10	15/07/10	[Task bar from July 2010 to July 2010]																																															
108	DELIVERY OF THE TRAM	0%	15/07/10	15/07/10	[Task bar from July 2010 to July 2010]																																															
109	COMMISSIONING OF THE TRAM	0%	15/07/10	04/08/10	[Task bar from July 2010 to August 2010]																																															



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10.5 RFI Register

Processes Register

Company Bilfinger Berger Civil
Channel etn



Status	System Ref	WorkPac kage Ref	Publishing Company	Title	Content	Publishing User	Issued Date
Open	RFI-00111		Siemens Transportation Systems	Track Support Stiffness (Please see also attached PDF-File)	See attached RFI form and the attached PDF: ETN(TRW)TIE=T&ABC_055661 Track Support Stiffness_iss2_re	Klaus Dieker	26/09/2008 16:27:04
Open	RFI-00112		Siemens Transportation Systems	Application of EN50122-2 or EN50162 standard for corrosion risk of utilities	The corrosion risk of reinforced concrete structures is assessed in BS EN 50122-2:1998, "Railway a	Robert Kraemer	29/09/2008 18:53:54
Open	RFI-00113		Siemens Transportation Systems	Application of EN50122-2 or EN50162 standard for corrosion risk of utilities	The corrosion risk of reinforced concrete structures is assessed in BS EN 50122-2:1998, "Railway a	Robert Kraemer	01/10/2008 18:36:19
Open	RFI-00107		Bilfinger Berger Civil	LOD and LLAU land available	See attached	Jim Cumberston	16/09/2008 12:40:25
Open	RFI-00108		PB	PB TQ 0005	SEE ATTACHED FILE	Emily Davies	18/09/2008 15:20:26
Open	RFI-00110		Siemens Transportation Systems	SERVICE VEHICLE PAYLOAD (ETN(DWE)TIE&ABC#050059)	In the Employer's Requirements, Section 29.14-Depot, Provisional Schedule of the Plant and Equipment	Frank Wenzel	23/09/2008 19:29:44
Open	RFI-00103	BSC-102	Siemens Transportation Systems	RFI 00103- ETN(SIG)TIE&ABC#050027 Timetable System	Please provide details of the tram timetable system proposed for the Edinburgh Tram project and in p	Robert Kraemer	25/08/2008 19:05:02
Open	RFI-00105		Bilfinger Berger Civil	RFI 00105- SOUTH GYLE ACCESS BRIDGE, SITE CLEARANCE OF BILLBOARDS	The site clearance of existing signs at South Gyle Access Bridge entails the "Removal and Reuse" of	John Cooper	01/09/2008 17:10:05
Open	RFI-00106		Bilfinger Berger Civil	RFI 00106 - PERMANENT ARRANGEMENTS EDINBURGH PARK MANAGEMENT	PERMANENT ARRANGEMENTS- EDINBURGH PARK MANAGEMENT We have been asked by Edinburgh Park Management	Peter Widdowson	03/09/2008 11:38:45
Open	RFI-00100	BSC-99	Siemens Transportation Systems	RFI 00100- ETN(TRW)TIE&ABC#050020 - Value Engineering TRW	Value Engineering Opportunity - Change from Embedded track to ballasted track, Tie reference: INF_CO	Klaus Dieker	20/08/2008 13:22:57
Open	RFI-00101	BSC-100	Siemens Transportation Systems	RFI 00101- ETN(SIG)TIE&ABC#050021 - Bus tracker	During a SCC coordination meeting held on the 12 of August neither tie nor Transder were able to exp	Robert Kraemer	20/08/2008 15:07:17
Open	RFI-00102	BSC-101	Bilfinger Berger Civil	RFI 00102- DEMOLITON AT HAYMARKET DEPOT - SLOT 96, 97, 101, 102	Please advise on how to proceed with the construction of W4 Russell Road Retainin Wall, According	Carsten Mieves	22/08/2008 09:36:17
Open	RFI-00096	BSC-95	Bilfinger Berger Civil	RFI 00096- ACCESS TO MURRAYFIELD WORKS AREAS	Please advise when the Infraco will be able to gain access to our works area adjacent to the Water o	Jim Cumberston	13/08/2008 11:53:29
Open	RFI-00098	BSC-97	Siemens Transportation Systems	RFI 00098- ETN(TRW)TIE&ABC#050013; Additional Turnouts	Drawing No. ULE90130-01-TAL-00004 Rev. 4 (see attachment) illustrates a scissor crossover as provis	Robert Kraemer	15/08/2008 13:50:15
Open	RFI-00099	BSC-98	Siemens Transportation Systems	RFI 00099- ETN(DWE)TIE&ABC050014_Compressed Air	Following previous versions of the ER the technical proposal for the DWE considers a Compressed Air	Robert Kraemer	15/08/2008 16:23:54
Open	RFI-00082	BSC-81	Siemens Transportation Systems	RFI 082 - TRAMSOP LIGHTING	TRAMSOP LIGHTING Issued 31.07.08	Roland Brueckmann	31/07/2008 15:21:50

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Processes Register

Company Bilfinger Berger Civil
Channel etn



Open	RFI-00091	BSC-90	Bilfinger Berger Civil	RFI 00091- MATERIAL AT THE EDINBURGH PARK STRUCTURE – SOUTH SIDE	We wish to record that during site visits to the south side of the Edinburgh Park Overbridge it is a	Jim Cumberston	08/08/2008 09:41:01
Open	RFI-00092	BSC-91	Siemens Transportation Systems	RFI 00092-CABLE DUCT REQUIREMENTS	As we are informed CEC officially has submitted cable duct requirements for Traffic Light Control an	Robert Kraemer	08/08/2008 10:14:35
Open	RFI-00077	BSC-76	Siemens Transportation Systems	RFI 077 - RE-ISSUE OF RFI 067	RE-ISSUE OF RFI 067 Issued 14.07.08 Response Received 18.07.08 - TRN-01596	Robert Kraemer	24/07/2008 08:10:35
Open	RFI-00079	BSC-78	PB	RFI 079 - LAND	LAND Issued 18.07.08 Response Received 21.07.08	Alan Dolan	24/07/2008 08:13:30
Open	RFI-00080	BSC-79	CAF	RFI 080 - BUS TRACKER	BUS TRACKER Issued 21.07.08	Jorge Piqueras	24/07/2008 08:14:49
Open	RFI-00074	BSC-73	Siemens Transportation Systems	RFI 074 - WASHING PLANT DESIGN	WASHING PLANT DESIGN Issued 11.07.08 Response Received 16.07.08 - TRN-01584	Norbert Wunder	24/07/2008 07:34:04
Open	RFI-00075	BSC-74	Siemens Transportation Systems	RFI 075 - REQUIREMENTS FPR FLOATING SLAB	REQUIREMENTS FPR FLOATING SLAB Issued 11.07.08 Response Received 21.07.08 - TRN-01600	Robert Kraemer	24/07/2008 07:38:42
Open	RFI-00076	BSC-75	Siemens Transportation Systems	RFI 076 - DATA REQUIRED FOR NEW ELECTRICITY APPLICATIONS	DATA REQUIRED FOR NEW ELECTRICITY APPLICATIONS Issued 11.07.08 Response Received 18.07.08	Nigel Baskerville	24/07/2008 07:59:32
Open	RFI-00071	BSC-70	Bilfinger Berger Civil	RFI 071- LEVEL OF WATER MAIN DIVERSION - DEPOT	LEVEL OF WATER MAIN DIVERSION - DEPOT Issued 11.07.08 Response Received 18.07.08 - TRN-01596	Jim Cumberston	24/07/2008 07:20:23
Open	RFI-00072	BSC-71	Siemens Transportation Systems	RFI 072 - RAILSECTION 59R2 / 60R2	RAILSECTION 59R2 / 60R2 Issued 11.07.08 Response Received 18.07.08 - TRN-01593	Robert Kraemer	24/07/2008 07:23:24
Open	RFI-00073	BSC-72	Siemens Transportation Systems	RFI 073 - DEPOT TRANSFORMER	DEPOT TRANSFORMER Issued 11.07.08 Response Received 16.07.08 - TRN-01584	Robert Kraemer	24/07/2008 07:24:40
Open	RFI-00067	BSC-66	Siemens Transportation Systems	RFI 067- TRACTION POWER RATING IN DEPOT TRACTION SUBSTATION	TRACTION POWER RATING IN DEPOT TRACTION SUBSTATION Issued 04.07.08 Response Received 09.07.08 - TR	Roland Brueckmann	24/07/2008 07:14:10
Open	RFI-00069	BSC-68	Graham Construction	RFI 069- INVASIVE WEEDS TREATMENT	INVASIVE WEEDS TREATMENT Issued 09.07.08 Response Received 21.07.08 - TRN-01600	Des Millar	24/07/2008 07:17:14

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Processes Register

Company Bilfinger Berger Civil
Channel etn



Open	RFI-00070	BSC-69	Graham Construction	RFI 070 - LIGHT COLUMNS AND RAILINGS AT HAYMARKET STATION STEPS	LIGHT COLUMNS AND RAILINGS AT HAYMARKET STATION STEPS Issued 10.07.08 Response Received 16.07.08 -	Des Millar	24/07/2008 07:18:58
Open	RFI-00060	BSC-59	PB	RFI 060 - RETAINING WALLS	RETAINING WALLS Issued 27.06.08 Response Received 16.07.08 - TRN-01584	Alan Dolan	24/07/2008 07:01:16
Open	RFI-00065	BSC-64	Siemens Transportation Systems	RFI 065 - ELECTRICITY AND METER SUPPLIER	ELECTRICITY AND METER SUPPLIER Issued 03.07.08 Response Received 10.07.08 - TRN-1544	Roland Brueckmann	24/07/2008 07:11:03
Open	RFI-00066	BSC-65	Bilfinger Berger Civil	RFI 066 - POLE STAY AT BAIRD DRIVE	POLE STAY AT BAIRD DRIVE Issued 03.07.08 Response Received 09.07.08 - TRN-01538	Jim Cumberton	24/07/2008 07:12:22
Open	RFI-00050	BSC-49	Bilfinger Berger Civil	RFI 050 - EXISTING DRAINAGE AT GOGARBURN	EXISTING DRAINAGE AT GOGARBURN Issued 16.06.08 Response Received 03.07.08 - TRN-01514	Jim Cumberton	23/07/2008 14:24:24
Open	RFI-00054	BSC-53	Bilfinger Berger Civil	RFI 054- GIANT HOGWEED	GIANT HOGWEED Issued 18.06.08 Response Received 25.06.08 - TRN-01480	Jim Cumberton	23/07/2008 14:33:22
Open	RFI-00059	BSC-58	Siemens Transportation Systems	RFI 059 - ELECTRICITY SUPPLIES	ELECTRICITY SUPPLIES Issued 25.06.08 response Received 03.07.08 - TRN-01512	Nigel Baskerville	24/07/2008 06:58:55
Open	RFI-00013	BSC-13	Bilfinger Berger Civil	RFI 013-VARIOUS SITE ACTIVITIES IN THE GOGARBURN AREAS	VARIOUS SITE ACTIVITIES IN THE GOGARBURN AREAS Issued 28.05.08 Response Received 06.05.08 - TRN-01	Jim Cumberton	22/07/2008 14:54:23
Open	RFI-00014	BSC-14	Bilfinger Berger Civil	RFI 014-INVASIVE SPECIES IN THE GOGARBURN AREA	INVASIVE SPECIES IN THE GOGARBURN AREA Issued 28.05.08 Response Received 05.06.08 - TRN-01355	Jim Cumberton	22/07/2008 14:58:04
Open	RFI-00048	1111-1	Graham Construction	RFI 048 - LOD AT ROSEBURN GARAGES-MURRAYFIELD SECTION 5A	LOD AT ROSEBURN GARAGES - MURRAYFIELD SECTION 5A Issued 13.06.08 Response Received 03.07.08 - TRN-	Des Millar	23/07/2008 13:52:28
Open	RFI-00003	BSC-3	Bilfinger Berger Civil	RFI 003- WATER MAIN, GOGAR DEPOT	WATER MAIN - GOGAR DEPOT Issued 19.05.08 Response Received 05.06.08 - TRN-01355	Jim Cumberton	22/07/2008 14:10:20
Open	RFI-00008	BSC-8	Bilfinger Berger Civil	RFI 008-ELEMENTS OF PERMANENT WORKS OUTSIDE THE LOD	ELEMENTS OF PERMANENT WORKS OUTSIDE THE LOD Issued 25.05.08 Response Received 05.06.08 - TRN-01355	Jim Cumberton	22/07/2008 14:35:47
Open	RFI-00009	BSC-9	Bilfinger Berger Civil	RFI 009-PREPARATION OF BUILDING WARRANTS AT HAYMARKET	PREPARATION OF BUILDING WARRANTS AT HAYMARKET Issued 21.05.08 Response Received 05.06.08 - TRN-013	Jim Cumberton	22/07/2008 14:40:05

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Bilfinger Berger – Siemens – CAF Consortium

10.6 Civil Works Procurement Schedule

Subcontract Procurement / Register Contract : Edinburgh Tram Network				PROGRAMME REQUIREMENTS							PROCESSES													
Order Number	Subcontract Trade	Section	Company	Prospective Companies	EN	Enquiry Needs Sent Out By (F74-3)	STATUS	Order Needs Placed By	STATUS	Letter of Intent Issued / Limited Order to Proceed	Required for Start on Site	Design Package Issued for Construction	F74-1	F51B-1	F74-4	F74-5	the CI 28.2	Auditory 20 Place	F74-9	Order Issued	Order Back	F74-11	F74-2	
1	Land Surveys (SW)	SW	Becker Geomatics Ltd		DG	n/a	✓	n/a	✓		n/a	n/a	✓		✓						✓	✓	✓	
2	Tree Felling / Advance Works (SW)	SW	W Laing		DG	n/a	✓	n/a	✓		n/a				✓						✓	✓	✓	
3	Site Clearance / Civils Package (7A)	7A	Farrans (Construction) Ltd		DG	n/a	✓	n/a	✓		n/a				✓	✓					✓	✓	✓	
4	Setting Out Engineers / Advance Works	SW	Beattie Chalmers Ltd		DG	n/a	✓	n/a	✓		n/a				n/a						✓	✓	✓	
5	Demolition of Caley Alehouse	2A	John Graham (Dromore) Ltd		DG	n/a	✓	n/a	✓		16-Jun-08				✓	✓					✓	✓	✓	
8	Existing Road Surveys	SW	Mouchel		DG	n/a	✓	n/a	✓		23-Jun-08				✓	✓	✓				✓	✓	✓	
10	Erection of Temporary Trackside Fencing	5	Lumberjax Environmental		SJ		✓		✓		21-Jun-08										✓	✓	✓	
11	Civils Package	7A/5C		Farrans	DG	16-Jun-08	✓	28-Jul-08		06-Aug-08	04-Aug-08				✓	✓								
12	Civils Package	2A1DSA		John Graham (Dromore) Ltd	DG	23-Jun-08	✓	21-Jul-08			02-Mar-09				✓	✓								
14	Civils Package	1A		R J McLeod, Expanded Ltd, McKenzie Construction	DG	25-Jul-08	✓	19-Sep-08			31-Oct-08													
15	Temporary Sheet Piling	5		SPUK, McGrattan, LB Foundations	SJ	26-May-08	✓	07-Jul-08			21-Jul-08													
16	Contiguous CFA Piling	5		Various	SJ	07-Jul-08	✓	18-Aug-08			01-Sep-08													
17	Temporary Works Design	SW	Tony Gee		TG	12-May-08	✓	23-Jun-08		30-Jun-08	n/a				✓	✓							✓	
18	Formwork, Rebar, Concrete	5		Expanded Ltd, Dunne Gp, Stephenson plus L Onlys	JMD	23-Jun-08	✓	21-Jul-08			18-Aug-08													
19	Reinforced Earth Retaining Walls	5		Netlon, Reco	SJ	23-Jun-08		21-Jul-08			18-Aug-08													
20	PC Beams	5		Tarmac Precast, Bangacherr	TG	23-Jun-08	✓	20-Oct-08			01-Dec-08													
21	Bridge Bearings	5		Various	DG																			
22	Earthworks	5		Celmisa, RJT, I & H Brown, Geddes, McGregor	SJ	28-Jul-08		25-Aug-08			01-Sep-08													
23	Drainage Duct	5		AC Construction, W H Malcom, McKean	SJ	27-Jun-08		25-Jul-08			01-Aug-08													
24	Photography	SW	White House Studios		SK	04-Jun-08	✓	16-Jul-08			23-Jul-08			✓	✓	✓	n/a				✓			
25	Structural Steel	5	Fairfield Mabey		SK					26-Jun-08	01-Dec-08	26-Jul-08			✓									
26	Traffic Management (SW)	SW	Class One		TG		✓	22-Jul-08		22-Jul-08	05-Aug-08			✓	✓	✓	✓							
27	Timber Fencing	SW		G Walker, JFK, DE Fencing, Lumberjacks, Alter	TG		✓																	
29	White lining and road markings	SW		Linemarkings, Markon	DG																			
30	Deck waterproofing & Surface Treatment	SW		Universal Sealants, Pitchmastic, Stirling Loyd	DG																			
31	Metal railings and handrailing	SW		DE Fencing, JFK	DG																			
32	Soil Nailing Testing	7		Ritchie	SJ	14-Jul-08		01-Aug-08			01-Sep-08													
34	Designers	SW	Parsons Brickerhoff et al (SDS)		DG	n/a		n/a		n/a	n/a										✓	✓	✓	
38	Civils Package	6	Barr Ltd		DG	26-May-08	✓	07-Jul-08	✓	02-Jun-08	04-Aug-08			✓	✓						✓	✓	✓	
42	Property Conditions Survey	SW		OM Hall / PT / DTZ	DG																			
43	Utility Disconnection Fees	SW	Various		DG	n/a		n/a		n/a	n/a			n/a	n/a	n/a	n/a			n/a				
44	Site Investigation Works	5	Raeburn		SJ		✓				07-Jul-08				✓						✓			
45	Civils Package	1B	Crummock		DG	04-Aug-08	✓	22-Sep-08		10-Sep-08	29-Sep-08	07-Jul-08												
46	Civils Package	1D		Crummock, W J Harte, McKenzie Construction	DG	04-Aug-08	✓	01-Oct-08			05-Jan-09	04-Jul-08												
48	Control Network Survey Check - Site Wide		L & M Surveys		SJ	03-Jul-08	✓	14-Jul-08			14-Jul-08										✓		✓	
49	Utility Diversions	SW		Core Construction, Claney Doewrs, Intuto	DG	14-Jul-08	✓																	
53	Acoustic Monitoring	SW	RMP Acoustic Consultants		SK	n/a		20-Jul-08	✓		27-Jul-08			✓	✓	✓					✓	✓	✓	
55	Tree Felling Adjacent to NR Rail Network		W Laing		SJ	17-Jul-08	✓	11-Aug-08	✓	n/a	25-Aug-08				✓							✓	✓	
58	Ecologist	SW	JDC Ecology Ltd		SK						04-Aug-08					✓								
60	Demolition	SW	Hunter Demolition		SK	14-Jul-08	✓	01-Aug-08	✓	28-Jul-08	18-Aug-08			✓		✓								
61	Archaeology	SW	Glasgow University Research Division		SK	n/a		n/a	✓	n/a	04-Aug-08			n/a	n/a	✓	n/a			n/a	✓	✓	✓	
68	Trackwork Subcontractor	5		W H Malcom, DCT, McKean							01-Sep-08						n/a							
70	Groundworks	5	Gallagher Groundworks		SK	25-Jul-08	✓	04-Aug-08	✓		11-Aug-08										✓	✓	✓	
73	Edinburgh Park Hoarding		Rapid Hoard Ltd		SK	01-Aug-08	✓	15-Aug-08	✓	n/a	29-Aug-08										✓	✓	✓	
74	A8 Underpass	5	Expanded Piling Ltd		SJ	06-Aug-08	✓	03-Sep-08	✓	15-Sep-08	15-Sep-08			✓	✓	✓	✓		✓					
79	Site drilling		Core Cut Ltd		JA						23-Sep-08										✓			



CEC00430660_0100

Key: F74-1 Subcontractor Questionnaire, F74-2 Subcontractor Performance Appraisal, F74-3 Subcontractor Enquiry (letter), F74-4 Subcontractor Pre-Award Staff Meeting, F74-5 Subcontractor Quality Plan, F51B-1 Subcontractor Environmental Questionnaire



Bilfinger Berger – Siemens – CAF Consortium

10.7 Change Register

MTC No.	MTC Title	Description	MTC Number	Approved in Principle	Type	Change Type	Commenced		Completed		Value Estimate (RMB)	Priority	Status		Allocation of Cost
							Start	End	Start	End			Actual	Forecast	
104		The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant.	2005/008	Y	D	4	19/02/2006	03/07/2006	03/07/2006	03/07/2006	0	4	TBA	TBA	100%
105		The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant.	2005/008	Y	B	4	19/02/2006	03/07/2006	03/07/2006	03/07/2006	0	4	TBA	TBA	100%
106		The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant.	2005/008	Y	D	4	19/02/2006	03/07/2006	03/07/2006	03/07/2006	0	4	TBA	TBA	100%
107		The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant.	2005/008	Y	B	4	19/02/2006	03/07/2006	03/07/2006	03/07/2006	6,189,485	7	TBA	TBA	100%
108		The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant.	2005/008	Y	D	4	19/02/2006	03/07/2006	03/07/2006	03/07/2006	90,069	1,2,3	TBA	TBA	100%
109		The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant.	2005/008	Y	D	4	19/02/2006	03/07/2006	03/07/2006	03/07/2006	94,578	1,2,3	TBA	TBA	100%
110		The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant.	2005/008	Y	D	4	19/02/2006	03/07/2006	03/07/2006	03/07/2006	45,131	1,2,3	TBA	TBA	100%
111		The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant. The current EPC contract (EPC) does not include the design and construction of the 150MW gas turbine power plant.	2005/008	Y	D	4	19/02/2006	03/07/2006	03/07/2006	03/07/2006	45,131	1,2,3	TBA	TBA	100%

ETN INFRACO NOTIFICATION OF THE CHANGE (INTC)



Ref. No.	Chang. Order TEC	Description	Date Notified	No. Responses	Date of Further Notice	Letter Ref.	Agreed in Principle?	Type	Change Type	Estimated Required Date (Milestone)				Finalised Change Request	Delay Estimate (Weeks)				Priority Method	Value Estimate (€)					Allocation of Cost			
										Due		Extended			Start	Finish	Duration	Agreed		Value Estimate (€)								
										Sub	Notes	Sub	Notes		Sub	Notes	Sub	Notes		Sub	Notes	Sub	Notes	Sub		Notes	Sub	Notes
26		Delay to issue at Albany Place (Batch 171) in IEC for Prior Approval notified by SDS in attached letter ULESB1001-LET-0052 dated 4 June 2008 in accordance with Schedule Part 4 paragraph 3.4.5.4	16/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232 He INF CORR 169		D	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	ETC	EB	TBA	-	-	-	-	-	-	N/A
27		Delay to issue For Construction (FC) Submissions - Section 1D due to changed approval periods notified by SDS in attached letter ULESB1001-LET-0051 dated 4 June 2008 in accordance with Schedule Part 4 paragraph 3.4.5.1	16/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
28		Delay to issue For Construction (FC) Submissions - Section 1B due to changed approval periods notified by SDS in attached letter ULESB1001-LET-0070 dated 4 June 2008 in accordance with Schedule Part 4 paragraph 3.4.5.1	16/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
29		Delay to Haymarket Station Low Bank Access Road due additional and revisions notified by SDS in map responses to attached Technical Query BES000 dated 5 June 2008 in accordance with Schedule Part 4 paragraph 3.4.5.4	16/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
30		Instruction to SDS to accelerate the delivery of IFC to meet the BES programme as SDS Letter 0031 in accordance with Schedule Part 4 paragraph 3.4.5.5.	16/06/2008		22/06/08 29/06/08 06/07/08 13/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	21,184	21,184	-	-	-	-	-	N/A
31		Instruction to SDS to provide a single handover to 1st and 2nd Road Bridge as SDS Letter 0027 in accordance with Schedule Part 4 paragraph 3.4.1.3.	19/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
32		ICB: Failure to approve within agreed timescales as SDS Letter 0057 in accordance with Schedule Part 4 paragraph 3.4.5.7	16/06/2008		07/07/08 14/07/08 21/07/08 28/07/08 04/08/08 11/08/08 18/08/08 25/08/08 01/09/08 08/09/08	DS1 2017M105 DS1 2017H105 DS1 2010SW107 DS1 2010SW109 DS1 2017M110 DS1 2010SW114 DS1 2010SW112 DS1 2010SW134 & 135 & 136 DS1 2017M169 He PD CORR 104A DS1 2010H199 DS1 2010H232 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
33		Failure to approve within agreed timescales as SDS Letter 0026 in accordance with Schedule Part 4 paragraph 3.4.2.7	16/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08 20/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232 He INF CORR 169 DS1 2010H232 DS1 2010H232 DS1 2010H232 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
34		New Requirements introduced by Public Realm Design Handbook as SDS Letter 0064 in accordance with Schedule Part 4 paragraph 3.4.4.3	16/06/2008		20/06/08 27/06/08 04/07/08 11/07/08 18/07/08 25/07/08	DS1 2017M105 DS1 2010SW107-LET-0064 DS1 2010SW107-LET-0064 DS1 2017M169 He PD CORR 104A DS1 2010H199 DS1 2010H232-SW-LET-01130 DS1 2010H232 DS1 2010H232-SW-LET-01202 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
35		New Requirements introduced by Public Realm Design Handbook as SDS Letter 0065 in accordance with Schedule Part 4 paragraph 3.4.4.3	16/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08 20/07/08 27/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232-SW-LET-01130 DS1 2010H232 DS1 2010H232-SW-LET-01202 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
36		Delay and Disruption to Crew Road Gardens Bridge IFC as SDS Letter 0029 in accordance with Schedule Part 4 paragraph 3.4.5.1	19/06/2008		22/06/08 29/06/08 06/07/08 13/07/08 20/07/08 27/07/08	DS1 2010H232-LET-0029 DS1 2017M169 He PD CORR 104A DS1 2010H199 DS1 2010H232-SW-LET-01130 DS1 2010H232 DS1 2010H232-SW-LET-01202 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
37		Delay and Disruption to Rowbum Terrace Bridge, Rowbum Transport, Roadwork Retaining Walls IFC as SDS Letter 0028 in accordance with Schedule Part 4 paragraph 3.4.1.5	16/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08 20/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232-SW-LET-01130 DS1 2010H232 DS1 2010H232-SW-LET-01202 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
38		Delay and Disruption to Roads detailed design as SDS Letter 0107 in accordance with Schedule Part 4 paragraph 3.4.5.1	16/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08 20/07/08 27/07/08 03/08/08 10/08/08 17/08/08	DS1 2010H232-SW-LET-0107 DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232-SW-LET-01130 DS1 2010H232 He INF CORR 169 DS1 2010H232-SW-LET-01174 DS1 2010H232-SW-LET-01212 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A
39		Delay to Shankhall Place 1mm Slag Blot (175) Variation by SDS Letter 0046 in accordance with Schedule Part 4 paragraph 3.4.5.1	16/06/2008		17/06/08 22/06/08 29/06/08 06/07/08 13/07/08 20/07/08 27/07/08	DS1 2017M105 He PD CORR 104A DS1 2010H199 DS1 2010H232-SW-LET-01130 DS1 2010H232 DS1 2010H232-SW-LET-01202 He INF CORR 169		M	1, 2, 3, 4	14/07/2008	TBA	TBA	0	TBA	TBA	TBA	TBA	1, 2, 3, 4	TBC	EB	TBA	-	-	-	-	-	-	N/A

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ETN INFRACO NOTIFICATION OF THE CHANGE (INTC)



Ref.	Chang. Order	Description	Date Notified	No. Responses	Date of Further Notice	Letter Ref	Agreed in Principle	Type	Change Type	Estimated Required Date (Y/M/D)			Estimated Change Impact	Delay Estimate (weeks)				Pricing Method	Value Estimate (€000)					Allocation of Cost			
										Original	Extended	Substituted		Start	Finish	Duration	Agreed		Submitted	Under Review	Agreed	Contract	From or VE		Amount		
										Due	Due	Substituted															
64	7	INCOOP - St Andrew Square Public Realm Works as CEC specification (Part) Site forming intended area over infrastructural footprint. Issued with drawings & Specifications Volume 2 Part 7.	22/03/2009		21.09.08 22.09.08 23.09.08 24.09.08 25.09.08	05.1.2010/L283 05.1.2010/H480 05.1.2010/H480 05.1.2010/H489		D		19/04/2009	20/09/2009	25/07/2009	48	TBA	TBA	TBA	TBA	3	9/34,437	Siemens	TBA					NA	
65		Delay and Disruption due to late approval CEC of 30027900 - St. Rose's Street Lighting Landscaping as SDB later 30.05.08 dated 0th July 2009 and in accordance with Schedule Part 4 paragraph 3.4.1.3	25/07/2009		25.07.08	05.1.2010/H419		M	1.3	20/03/2009	TBA	TBA	0	TBA	TBA	TBA	TBA	1.4	TBA	Siemens	TBA					NA	
66		Delay and Disruption by CEC due to late registering Section 14 Branch 100 (Part of the walkway) and associated line of route) as SDB Letter 00721 dated 11th July 2008 and in accordance with Schedule Part 4 paragraph 3.4.1.3	29/07/2009		29.07.08	05.1.2010/H419 05.1.2010/H419		M	1.4	30/09/2009	TBA	TBA	0	TBA	TBA	TBA	TBA	1.4	TBA	Siemens	TBA					NA	
67		Delay and Disruption due to late approval CEC of Section 15 as SDB Letter 00722 dated 7th July 2008 and in accordance with Schedule Part 4 paragraph 3.4.1.3	29/07/2009		29.07.08	05.1.2010/H419		M	1.3	26/09/2009	TBA	TBA	0	TBA	TBA	TBA	TBA	1.4	TBA	Siemens	TBA					NA	
68		Delay and Disruption due to notification from CEC with respect to local safety Auditors comments for 14 protract Area of Section 10 as SDB Letter 00733 dated 11th July 2009 and in accordance with Schedule Part 4 paragraph 3.4.1.3	29/07/2009		29.07.08	05.1.2010/H419		M	1.4	20/09/2009	TBA	TBA	0	TBA	TBA	TBA	TBA	1.4	TBA	Siemens	TBA					NA	
69		Notified Disruption in accordance with 3.4.21 and 3.5 Schedule Part 4 due to the asbestos Survey carried out by the presence of Asbestos in Ducts 75,77,91,103,130 & 150 causing delay and disruption to the Infraco's intended programme and involved with	31/07/2009		31.07.08 11.08.08	05.1.2010/L237 05.1.2010/L237		M	4	29/03/2009	31/07/2009	31/07/2009	42	TBA	TBA	TBA	TBA	4	26,227	Siemens	TBA	26,227	26,227				NA
70	T17 12	Disruption of Existing Sewer at Glasgow Bridge due to conflict with the existing 300mm dia combined sewer with the Glasgow Bridge concrete piling partially causing delay and disruption to the Infraco's intended programme	28/04/2009		24/07/08 26.08.08 28.08.08 11.09.08 25.09.08 26.09.08 28.09.08 29.09.08	05.1.2010/CORR 053 SOS-ULE001 30.07.LET-00300 05.1.2010/C055 05.1.2010/C055 05.1.2010/CORR 118 05.1.2010/CORR 118 05.1.2010/CORR 118 05.1.2010/CORR 118 05.1.2010/CORR 118	Y	M	4	05/03/2009	05/03/2009	05/03/2009	14	TBA	TBA	TBA	TBA	4	10,105	Siemens	TBA					NA	
71	T13	Infraco to investigate proposals in the region of the RBS Buried Material within the final design	30/08/2009		31.08.08 28.09.08 28.09.08 16.09.08 27.09.08	05.1.2010/L237 05.1.2010/L237 05.1.2010/L237 05.1.2010/L237 05.1.2010/L237		M	4	05/03/2009	05/03/2009	05/03/2009	54	TBA	TBA	TBA	TBA	4	8,303	Siemens	TBA					NA	
72	T14	Work item from Detailed Physical Survey Item 2 - Scotiabank Power conductors to the Depot and location Park & Ride and Item 11 Scotiabank Power conductors to Phase 14 substation, in Schedule Part 4 Appendix D Table 1	15/08/2009							12/09/2009										TBA	Siemens	TBA					NA
73		Leasing of Overhead Limited System (including method, capacity, an A&S Technical Toolkit (A&S for the power rating work and A&S Technical Category System for 11kV overhead) to the Applicant	15/08/2009		15.08.08 22.08.08	05.1.2010/011 05.1.2010/011				12/09/2009										TBA	Siemens	TBA					NA
74		INCOOP - Use an Internal Hazard Freezone	29/07/2009		29.07.08 27.08.08	05.1.2010/CORR 007 05.1.2010/L291				29/09/2009	21/08/2009	27/08/2009	45	TBA	TBA	TBA	TBA	3	1,889,839	Siemens	TBA	1,889,839	1,889,839				DPG 1.3
75	T15	Marystfield Retaining Walls - Introduce visual screen to Marystfield RTW	25/07/2009		24.07.08 23/07/08 24/07/08 26.08.08 19.08.08 21.08.08 25.09.08	05.1.2010/011 05.1.2010/011 05.1.2010/011 05.1.2010/011 05.1.2010/011 05.1.2010/011 05.1.2010/011		M		22/09/2009	22/09/2009	21/08/2009	41	TBA	TBA	TBA	TBA	4	4,190	Siemens	TBA						NA
76	13	IRC 013 - Revised Specification (SOS) Geopium Tramping Feasibility cost for revised Trampstop boxes on Dog and Smith Feasibility	23/07/2009		22/07.08 29.07.08 31.07.08 21.08.08 17.09.08	05.1.2010/L219 05.1.2010/L219 05.1.2010/L219 05.1.2010/L219 05.1.2010/L219				20/09/2009	21/08/2009	21/08/2009	11	TBA	TBA	TBA	TBA	3	1,251,237	Siemens	TBA	1,251,237	1,251,237				NA
77		Marystfield Trampstop - Provision of secondary staircase	25/07/2009		24/07.08 24/07.08 26.08.08 16.08.08 21.08.08 25.09.08	05.1.2010/011 05.1.2010/011 05.1.2010/011 05.1.2010/011 05.1.2010/011 05.1.2010/011		M		22/09/2009	20/09/2009	21/08/2009	11	TBA	TBA	TBA	TBA	4	36,839	Siemens	TBA						NA
78		Edinburgh Falls - Earthworks and Drainage IFC Drawings	22/08/2009		22.08.08 19.09.08	05.1.2010/C049 05.1.2010/C049		M		19/03/2009	19/03/2009	TBA	0	TBA	TBA	TBA	TBA	4	TBA	Siemens	TBA					NA	
79		Site-Site retaining Walls	22/08/2009		22.08.08	05.1.2010/C049		M		19/03/2009	19/03/2009	TBA	0	TBA	TBA	TBA	TBA	4	TBA	Siemens	TBA					NA	
80		Edinburgh Retaining Walls	22/08/2009		22.08.08	05.1.2010/C049		M		19/03/2009	19/03/2009	TBA	0	TBA	TBA	TBA	TBA	4	TBA	Siemens	TBA					NA	
81		RTW to Balfour Street F&D Drawings (As-Built)	22/08/2009		22.08.08 19.09.08	05.1.2010/C049 05.1.2010/C049		M		19/03/2009	19/03/2009	TBA	0	TBA	TBA	TBA	TBA	4	TBA	Siemens	TBA					NA	
82		Haymarket to Broomfield Junction - SW General Issue (as-Built)	22/08/2009		22.08.08 19.09.08	05.1.2010/C049 05.1.2010/C049		M		19/03/2009	19/03/2009	TBA	0	TBA	TBA	TBA	TBA	4	TBA	Siemens	TBA					NA	

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ETN INFRACO NOTIFICATION OF THE CHANGE (INTC)



Ref. No.	Air Change Value TEC	Description	Date Notified	No. Responses	Date of Further Action	Letter Ref	Agreed in Principle	Type	Change Type	Estimated Required Date (UTC/GMT+1)			Delay Estimate (weeks)				Pricing Method	Value Estimate (€/€m)					Allocation of Cost						
										Due	Extended	Substantia	Start	Finish	Duration	Agreed		Substantia	Under Review	Agreed	Revised	Favour or VE		Municipal					
																									See Notes	See Notes	See Notes	See Notes	See Notes
73		Street road widening V14 - Lindemann Hogweed	23/08/2009		21/08/09 17/09/09	05.1.2010G011 Re:INF CORR 165		M		19/08/2009	18/08/2009	TBA	0	TBA	TBA	TBA	TBA	4	TBA	Siemens	TBA	-	-	-	-	N/A			
74	11.11	Street Division - Super Landfill	25/08/2009		25/07/09 17/09/09 25/09/09	05.1.2010G019 Re:INF CORR 160 05.1.2010G020		M		02/09/2009	02/09/2009	25/09/2009	37	TBA	TBA	TBA	TBA	4	TBA	Siemens	TBA	-	-	-	-	N/A			
75	11.12	Emergency Access Ramp from Depot	25/08/2009		25/07/09 17/09/09	05.1.2010G016 Re:INF CORR 161		M		02/09/2009	02/09/2009	25/09/2009	37	TBA	TBA	TBA	TBA	4	TBA	Siemens	TBA	-	-	-	-	N/A			
76	15	Super Depot Public Transport proposals ORP options 4B & 4C2	28/08/2009	HOLD REWORK	07/09/09 26/08/09 26/09/09 11/09/09	05.1.2010H028 Re:INF CORR 095 05.1.2010G095 05.1.2010H027 05.1.2010H027 - notes v3chd		I	1,2 & 3	01/09/2009	28/08/2009	28/09/2009	44	TBA	TBA	TBA	TBA	1,2 & 3	31,22,26,9	Siemens	2,222,969	2,222,969	-	-	-	-	N/A		
77	17.9	DESIGN ONLY to Amend the off-trunk design section B2 (Sub 5.22) Prior approval application Ref 16022116A as per letter INF CORR 055 dated 20th July 2009	25/08/2009		18/08/09 18/08/09 28/08/09	Re:INF CORR 055 SDS-ULEB013105-LET-00317 05.1.2010H030		H	4	22/08/2009	22/08/2009	28/09/2009	13	TBA	TBA	TBA	TBA	4	4.019	Siemens	4.019	4.019	-	-	-	-	N/A		
78		Design Only to Advise on redesign of Edinburgh Airport Transport and restoring wall design at Jubilee Road as per letter INF CORR 072 dated 5th August 2009	22/08/2009		18/08/09 14/07/09 07/09/09 24/08/09 28/09/09 02/09/09 22/08/09	SDS-ULEB013007-LET-00344 05.1.2010H051 05.1.2010H051 Re:INF CORR 072 Re:INF CORR 122 05.1.2010H044 05.1.2010H018		M	4	26/08/2009	22/09/2009	02/09/2009	75	TBA	TBA	TBA	TBA	4	61.731	Siemens	61.734	61.734	-	-	-	-	N/A		
79		Reduction from CEC to design an alternative layout for Hummel Junction	23/08/2009		20/08/09 23/08/09	SDS-ULEB013001-LET-00369 05.1.2010H062		M	4	27/08/2009	20/09/2009	02/09/2009	77	TBA	TBA	TBA	TBA	4	60.795	Siemens	60.795	60.795	-	-	-	-	N/A		
80		Superburn Retaining Wall - CEC requesting change to the type of the wall as per PB letter ULEB013007-LET-00388 dated 3 September	09/09/2009		23/08/09 09/09/09	SDS-ULEB013007-LET-00388 05.1.2010H067		H	4	09/09/2009	22/09/2009	02/09/2009	99	TBA	TBA	TBA	TBA	4		Siemens	TBA	-	-	-	-	N/A			
81		Environmentally Friendly Lighting - CEC have requested using 42 watt p.t lamp rather than the 70 watt C.D.U (white light) as per PB letter ULEB013005-LET-01184 dated 3 September 2009	28/09/2009		25/09/09	05.1.2010H065		M	4	03/10/2009	22/09/2009	02/09/2009	79	TBA	TBA	TBA	TBA	4		Siemens	TBA	-	-	-	-	N/A			
82		Customisation - Signposting	28/08/2009		01/09/09 19/08/09	05.1.2010H064 Re:INF CORR 185		M												Siemens	TBA	-	-	-	-	N/A			
83		Traffic Management - Temporary Traffic Signals	21/08/2009		08/07/09 27/08/09 21/09/09 29/09/09	SDS-0130099030 Re:INF CORR 070 05.1.2010H099 05.1.2010H012		M												Siemens	TBA	-	-	-	-	N/A			
84	1	IN008 - Scramble road diversion - Free for design INF CORR 099	20/08/2009		20/08/09 23/08/09 16/07/09 30/07/09 14/08/09 26/08/09 26/08/09 10/08/09	Re:INF CORR 099 05.1.2010H076 SDS-ULEB013007-LET-00362 05.1.2010H068 Re:INF CORR 082 05.1.2010H076 05.1.2010H019 SDS-ULEB013105-LET-00323 05.1.2010H077		M	4	14/07/2009	22/09/2009	02/09/2009	21	TBA	TBA	TBA	TBA	4	30.991	Siemens	30.998	30.998	-	-	-	-	N/A		
85	1	IN008 - Lindsay Road Retaining Wall Cost Estimate	27/07/2009		30/05/09	Re:INF CORR 071 05.1.2010H075 - Email updated position		M	4	31/07/2009	22/09/2009	02/09/2009	77	TBA	TBA	TBA	TBA	4		Siemens	TBA	-	-	-	-	N/A			
86	10	Request for Extended Period of Time - IN030, MULFATO INF RAO transfer of Utilities Division Section 1A, 1B, 1C and 1D	28/08/2009		29/07/09 28/07/09 28/08/09 20/08/09 17/09/09	Re:INF CORR 051 05.1.2010H013 Re:INF CORR 001 05.1.2010G099 05.1.2010H017 Re:INF CORR 162		M		01/09/2009										Siemens	TBA	-	-	-	-	N/A			
87	11	Cost Estimation of Leath Wall	11/07/2009		11/07/09 14/07/09 27/07/09 10/09/09 22/08/09 23/08/09 23/08/09	Re:INF CORR 030 Email: E9:EB re: INF CORR 030 05.1.2010H026 05.1.2010H075 Email: E9:EB re Estimate 05.1.2010H030 - Cost Estimate 05.1.2010H030		M		01/08/2009									4	104.905	Siemens	104.905	104.905	-	-	-	-	N/A	
88	14	Power Connections Phase 1a	28/08/2009		20/08/09	Re:INF CORR 084		M		01/09/2009										Siemens	TBA	-	-	-	-	N/A			
89		24hour Street Crossing		PH working on	01/09/2009	SDS-ULEB013001-LET-00748		M												Siemens	TBA	-	-	-	-	N/A			
90		Change order request SDS Development Workshop Attendance	31/07/2009		21/08/09	PO CORR 0818808 ULEB013005-LET-01095 05.1.2010H025 Re:INF CORR 102 05.1.2010H041		M		14/08/2009										Siemens	TBA	-	-	-	-	N/A			
91		Confirmation of Vendor Instructions Reference ETH002 - Compression Street Notice			20/01/09			M												Siemens	TBA	-	-	-	-	N/A			

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ETN INFRACO NOTIFICATION OF THE CHANGE (INTC)



Ref. No.	Chang. Order / TCO	Description	Date Rofiled	No. Responses	Date of Initial Notice	Letter Ref.	Agreed in Principle?	Type	Change Type	Estimate Required Date (UTC/GMT+2)				Delay Estimate (Weeks)				Pricing Method	Value Estimate (Year)					Allocation of Cost				
										Original		Extended		Subsequent		Approved			Disputed		Disputed		Submitted	Under Review	Approved	Rejected	Firm or VE	Number
										Start	End	Start	End	Start	End	Start	End		Start	End								
92		Design the Russell Road retaining wall to ensure that the bridge clearing with the existing sewer as per the letter INF_CORR_051 dated 23/07/08			23/07/08 23/08/08 11/09/08	INF_CORR_051 SOS-ULE9013005-LET-00024 25.1.2010/H487		M			24/01/0903							95,164	95,164				NA					
93		Lindsay Road, Ocean Grove, Ocean Terminal & Lower Place Planning Permission	24/08/08		24/08/08	25.1.2010/H45,26		M										47,837	47,837				NA					
94		Blair Hotel Full Planning	JH working on															11,492	11,492				NA					
95		Additional Lepoi Prior Approvals	JH working on		17/06/08 14/07/08 26/08/08 22/09/08	SOS-ULE9013005-LET-00093 25.1.2010/H4299 INF_CORR_060 25.1.2010/H4399											17,216	17,216				NA						
96		Shanzhou Place DEO potential treatment			24/07/08 22/09/08 11/09/08	INF_CORR_064 SOS-ULE9013041-LET-00784 25.1.2010/H488		M			24/01/0903							80,413	80,413				NA					
97		Balgown road Bridge Amending Technical Design	JH working on		10/06/08 14/07/08 26/07/08 29/07/08 22/09/08 11/09/08	SOS-ULE9013005-LET-00293 25.1.2010/H4299 INF_CORR_096 25.1.2010/H432 SOS-ULE9013005-LET-00026											3,994	3,994				NA						
98		Release Notifications due to the issue of SOS Design programme V02, V03, V04 and V5	11/09/2008		11/09/2008	25.1.2010/H428		M			05/10/2008							TBA					NA					
99		Release Notifications due to the issue of SOS Design programme V02, V03, V04 and V5	11/09/2008		11/09/2008	25.1.2010/H428		M			05/10/2008							TBA					NA					
100		Release Notifications due to the issue of SOS Design programme V02, V03, V04 and V5	11/09/2008		11/09/2008	25.1.2010/H428		M			05/10/2008							TBA					NA					
101		Release Notifications due to the issue of SOS Design programme V02, V03, V04 and V5	11/09/2008		11/09/2008	25.1.2010/H428		M			05/10/2008							TBA					NA					
102		Section 5C - Gage Church and Gage Tackle	MH working on		28/03/2008 10/09/08	CV Ref 5C(200) 25.1.2010/H41																	NA					
103		State Bicycle Transport									24/01/0903							11,863	11,863				NA					
104		FC Drawing Change Baird Drive RTW	15/08/2008		15/08/08	25.1.2010/H436		M			09/10/2008							TBA					NA					
105		FC Drawing Change Balgown Road Rotating Wall	15/08/2008		15/08/08	25.1.2010/H436		M			09/10/2008							TBA					NA					
106		FC Drawing Change Murrayfield Stadium RTW	15/08/2008		15/08/08	25.1.2010/H436		M			09/10/2008							TBA					NA					
107		FC Drawing Change Bankhead RTW	18/04/2008		18/04/08	25.1.2010/H430		M			12/10/2008							TBA					NA					
108		FC Drawing Change Gyle Stop RTW	18/08/2008		18/08/08	25.1.2010/H434		M			12/10/2008							TBA					NA					
109		FC Drawing Change Murrayfield Underpass	18/08/2008		18/08/08	25.1.2010/H436		M			12/10/2008							TBA					NA					
110		FC Drawing Change South Gyle Access Bridge	18/08/2008		18/08/08	25.1.2010/H436		M			12/10/2008							TBA					NA					
111		FC Drawing Change Glasgow Bridge	19/08/2008		19/08/2008	25.1.2010/H436		M			13/10/2008							TBA					NA					
112		FC Drawing Change Haymarket Viaduct	19/08/2008		19/08/2008	25.1.2010/H434		M			13/10/2008							TBA					NA					
113		FC Drawing Change Kewfoot Road Bridge	19/08/2008		19/08/2008	25.1.2010/H436		M			13/10/2008							TBA					NA					

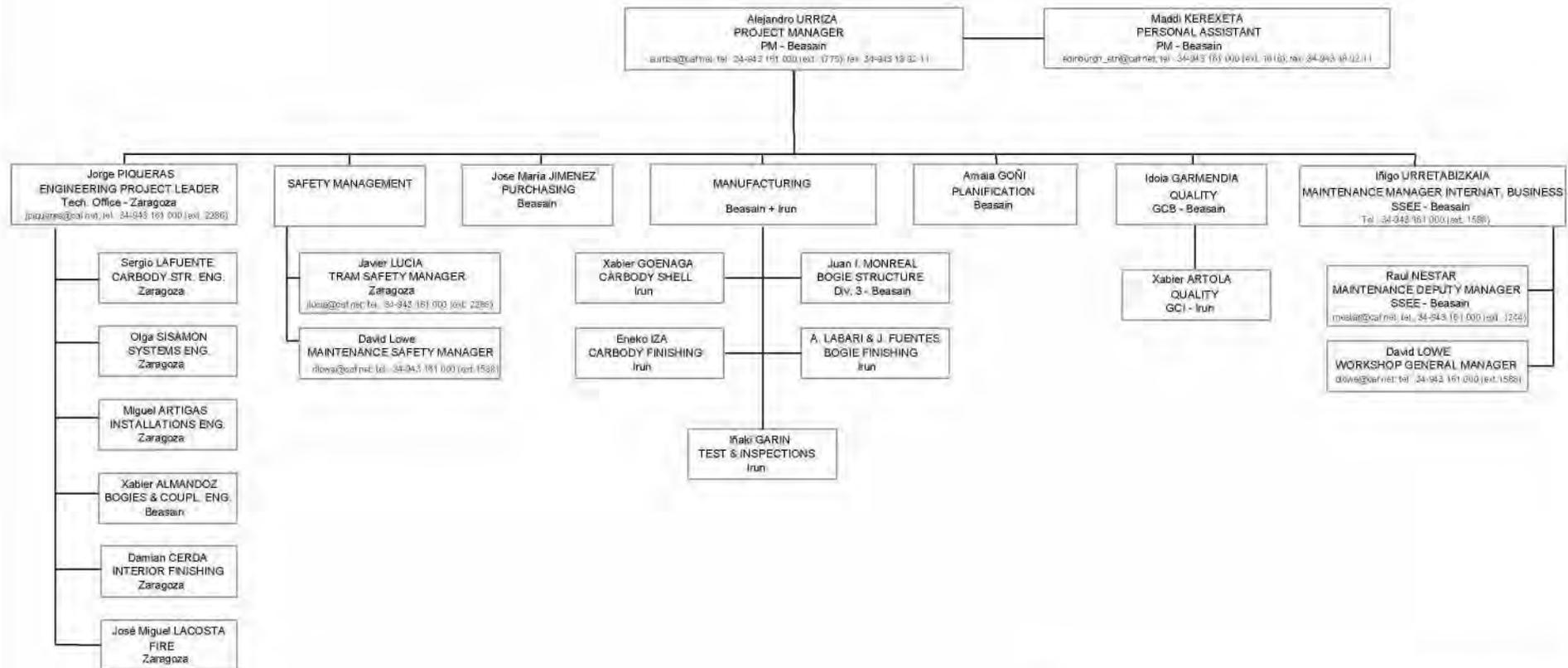
CEC00430660_0108



Bilfinger Berger – Siemens – CAF Consortium

10.8 Organisation Charts

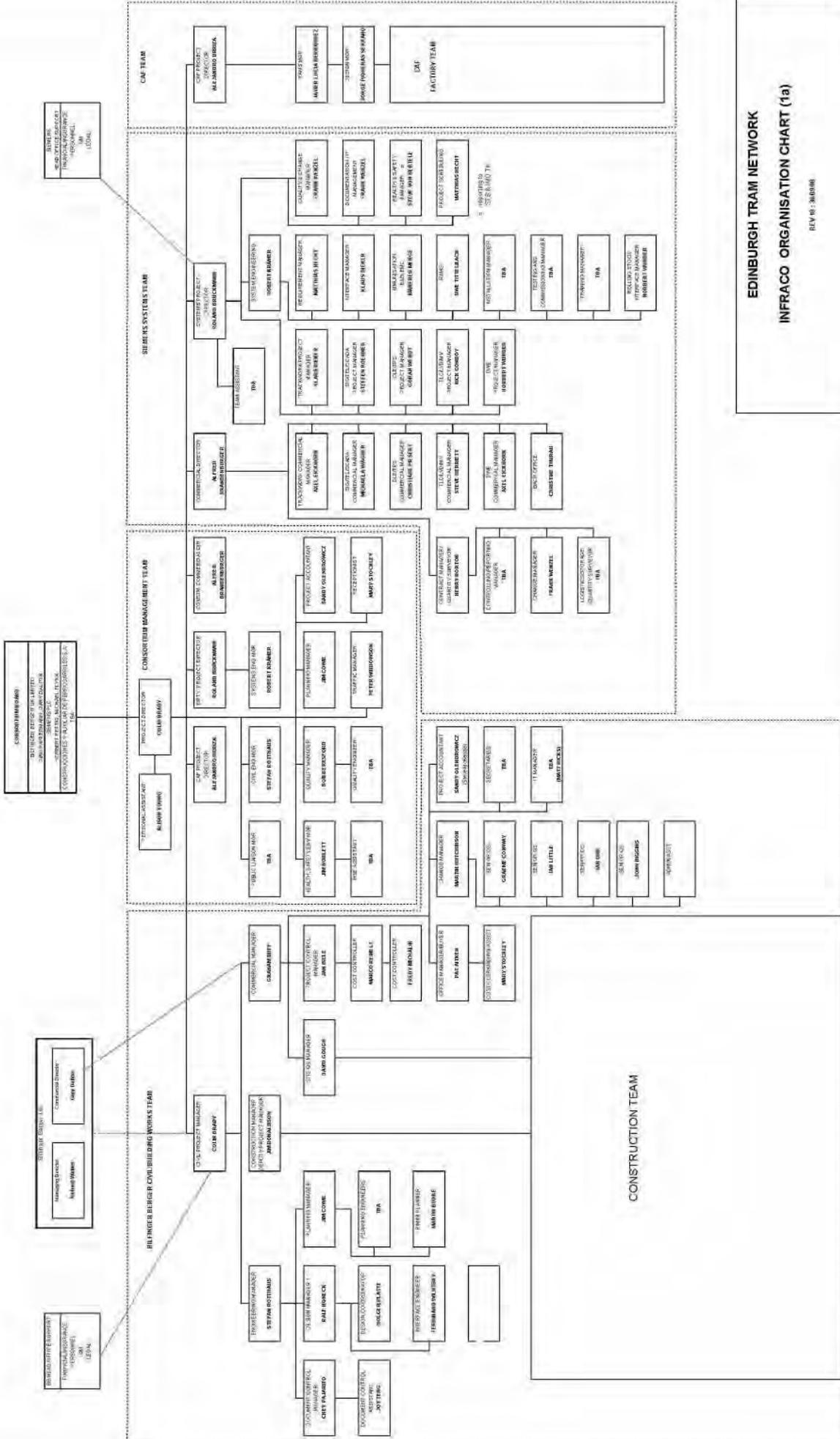
Construcciones y Auxiliar de Ferrocarriles, S.A.



EDINBURGH TRAM NETWORK – ETN

CAF Organizational Chart - V1.0

2008/09/23



EDINBURGH TRAM NETWORK
INFRACO ORGANISATION CHART (1a)
 REV 01 - 26/08/18

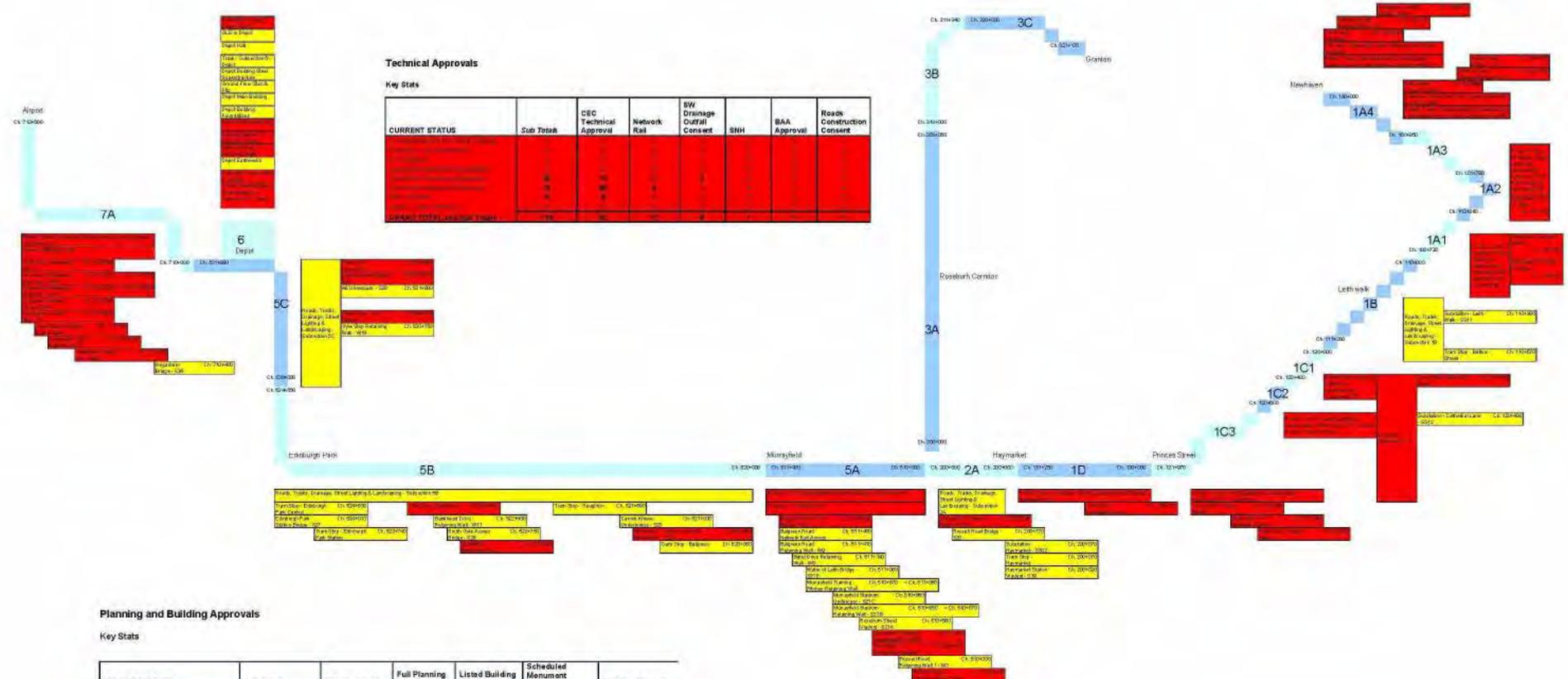


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10.9 Production of Design

Design Package Tracker

System Wide: ██████████



Technical Approvals

Key Stats

CURRENT STATUS	Sub Totals	DEC Technical Approval	Network Rail	SW Drainage Consent	SHH	BAA Approval	Roads Construction Consent
[Red Bar]	[Red Bar]	[Red Bar]	[Red Bar]	[Red Bar]	[Red Bar]	[Red Bar]	[Red Bar]

Planning and Building Approvals

Key Stats

CURRENT STATUS	Sub Totals	Prior Approval	Full Planning Permission	Listed Building Consent	Scheduled Monument Consent	Building Warrant
[Red Bar]	[Red Bar]	[Red Bar]	[Red Bar]	[Red Bar]	[Red Bar]	[Red Bar]

Legend:



CEC00430660_0115



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10.10 Issues and Concerns

KEY
 DENOTES OUTSTANDING ISSUE

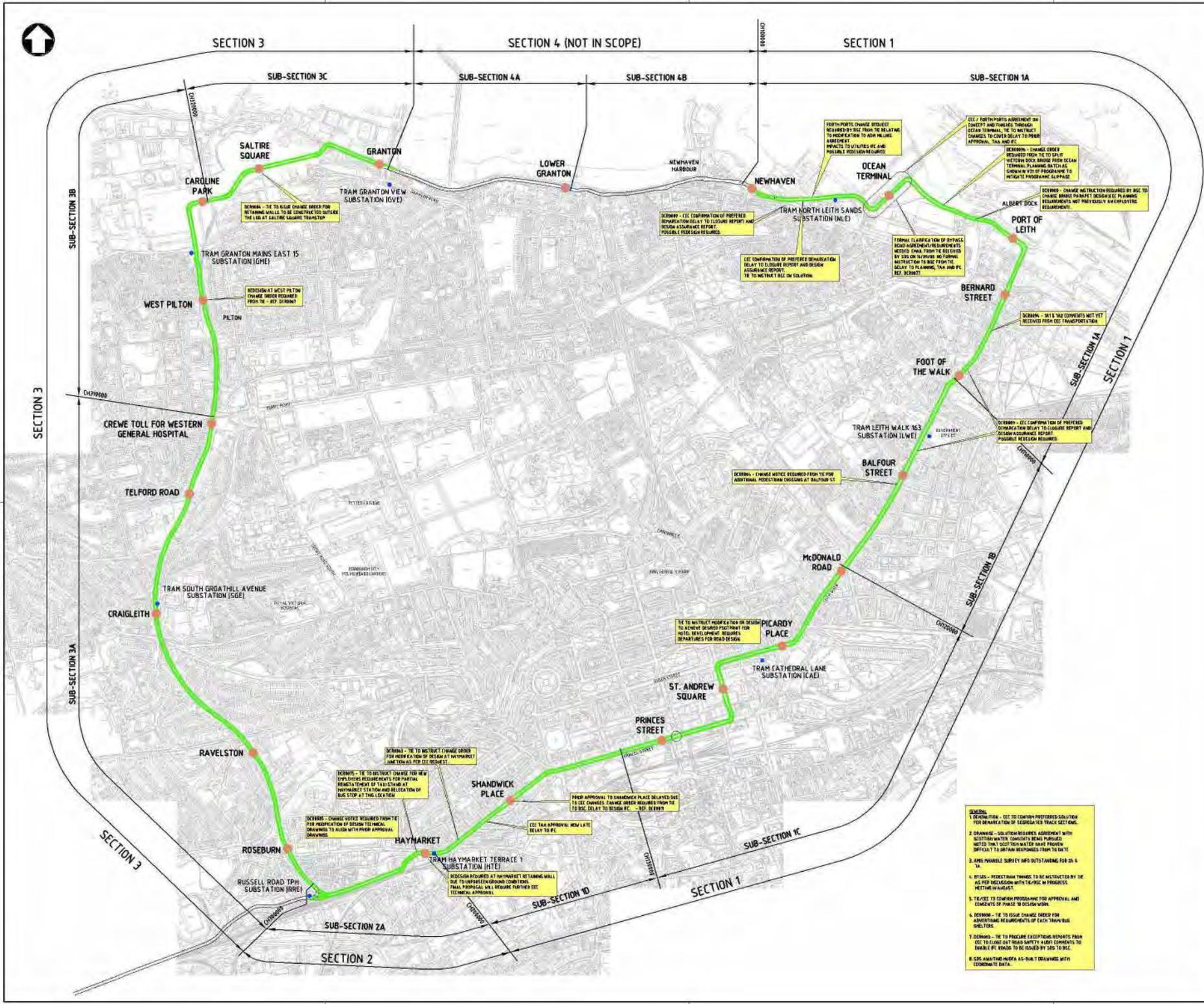
REV	DESCRIPTION BY	DATE	ISSUED FOR INFORMATION	BY	DATE	ISSUED FOR INFORMATION
1	DESCRIPTION BY	20/09/2018	ISSUED FOR INFORMATION	CE	20/09/2018	ISSUED FOR INFORMATION
2	DESCRIPTION BY	25/09/2018	ISSUED FOR INFORMATION	CE	25/09/2018	ISSUED FOR INFORMATION

For Information Only



EDINBURGH TRAM NETWORK	
SYSTEM WIDE LINE 1 POST - NOVATION PROJECT ISSUES	
QUANTITY: STACHOWIAK J	CREATED BY: MEY
APPROVED BY: Chandler J	ORIGINAL DRAWING CODE: A1
DATE: 25/09/2018	SCALE: 1:10000
DRAWING NUMBER: LULE90130-SW-DRG-00651	REV: 2

- SCREENS**
- SCREENS - EC TO CONFIRM PREFERRED SOLUTION FOR PROVISION OF SUBSECTION TRACK SECTIONS.
 - SCREENS - CONSULTATION AGREEMENT WITH SCOTISH WATER CONSULTANTS BEING PURSUED. MEET THE SCOTSWATER TRAM TRAFFIC DEPARTMENT TO OBTAIN RESPONSES FROM 10 DATE.
 - APPROXIMATE SURVEY INFO OUTSTANDING FOR SUBSECTION 1A.
 - SCREENS - REVISIONS TO BE INSTRUCTED BY THE ACP FOR REVISIONS WITH SCOTSWATER PROJECTS MEETING IN AUGUST.
 - SCREENS - EC TO CONFIRM PROGRAMME FOR APPROVAL AND COMMENCEMENT OF WORK ON SUBSECTION 1A.
 - SCREENS - EC TO ISSUE CHANGE ORDER FOR ADVERTISING REQUIREMENTS OF EACH TRAMWAY SECTION.
 - SCREENS - EC TO PRODUCE EXCEPTED REPORTS FROM EC TO CLARIFY ON BOARD SAFETY ALERT COMMENTS TO TRAMWAY (P. 10) TO BE ISSUED BY EC TO EC.
 - SCREENS - EC TO CLARIFY AND AS-RUN 1 DRAWINGS WITH SCOTSWATER DATA.



CEC00430660_0117



GENERAL SDS AWAITING HUDFA AS-BUILT DRAWINGS WITH COORDINATE DATA

DCR0019 TRAMSTOP CHANGE TO BE INSTRUCTED - AFFECTS STOP AND RETAINING WALL. POOR APPROVAL, TAA AND IFC DELAYED.

CEC TRANSPORT COMMENTS OUTSTANDING - TAA AND IFC DELAYED

DCR0018 MURRAYFIELD STADIUM RETAINING WALL - CHANGE ORDER TO BE ISSUED BY TIE

DCR0015 AMENDMENT OF BALGREEN ROAD BRIDGE TECHNICAL AND PLANNING DRAWINGS CHANGE ORDER REQUIRED TO BE ISSUED BY TIE

DCR0030 - ENVIRONMENTALLY FRIENDLY LIGHTING TO BE INSTRUCTED BY THE AS NOT PREVIOUSLY AN EMPLOYERS REQUIREMENT

DCR0011 & DCR0012 - GOGAR TRAMSTOP TIE TO ISSUE CHANGE INSTRUCTION IF ADDITIONAL TRAMSTOP IS REQUIRED

DECISION TO ACCEPT EXISTING DESIGN CURRENTLY APPROVED BY SCOTTISH WATER OR CHANGE BRIDGE DESIGN CLARIFICATION FROM TIE REQUIRED

DCR0019 - NEW CYCLEWAY DESIGN REQUESTED BY CEC. TO BE INSTRUCTED, TIE TO ISSUE CHANGE NOTICE TO BE ISSUED BY TIE TO BSC

DCR0028 A8 UNDERPASS VE EXERCISE IN PROGRESS

DCR0010 - TIE TO ISSUE CHANGE ORDER IF ADDITIONAL HEDGE REQUIRED FOR DEMARCATION OF TRAMWAY - NEW REQUIREMENT BY CEC PLANNING

EMERGING ISSUE REQUIRING RESOLUTION TIE TO ACCEPT RBS PROPOSALS FOR STOP AND TO INSTRUCT BSC ACCORDINGLY

DCR0027 VE EXERCISE IN PROGRESS

DCR0011 - GOGARBURN BRIDGE IFC SPLIT FROM SECTION 10C TO MITIGATE PROGRAMME DELAY - TIE TO ISSUE CHANGE INSTRUCTION

OUTSTANDING CHANGE NOTICE FOR NEW ROAD AND BRIDGE. TIE TO CONFIRM F SDS TO DESIGN OR BY OTHERS CONFIRMATION OF CONSTRUCTION BY BSC OR OTHERS. NEEDS TO BE BUILT PRIOR TO START OF BSC TRAM CONSTRUCTION WORKS

DCR0015 - MODIFICATIONS OF AIRPORT KIOSK TO BE INSTRUCTED BY TIE AS PER CHANGE LETTER FROM TIE

GOGARBURN RETAINING WALL FINISH SUBJECT TO CHANGE BY CEC PLANNING. REF. DCR0019. TO BE INSTRUCTED BY TIE

TIE TO INSTRUCT REQUIREMENTS FOR FUTURE PROOFING FOR ML REQUIREMENTS

DCR0009 - CHANGE ORDER REQUIRED FROM TIE TO ALTER RETAINING WALL AROUND AIRPORT KIOSK WHICH IS LOCATED OUTSIDE OF THE LOD.

DCR0009 - CHANGE ORDER REQUIRED FROM TIE TO APPLY FOR FULL PLANNING PERMISSION ASSOCIATED WITH WORKS OUTSIDE THE LOD AT HILTON HOTEL

KIOSK AND COVERED WALKWAY TO BE DEVELOPED BY BAA AS PERMITTED DEVELOPMENT

POTENTIAL ISSUE REQUIRING TIE CLARIFICATION. OUTFALL METHOD FOR TRACK DRAINAGE TO BE DECIDED BY TIE DUE TO NEGOTIATIONS WITH BAA OVER DISCHARGE INTO THEIR DRAINAGE NETWORK

CEC TRANSPORT COMMENTS OUTSTANDING - DELAY TO TAA AND IFC

NOTES
1. DWS HUMPHREYS REF: 882L1
PDF HUMPHREYS REF: 882L1

KEY
OUTSTANDING ISSUE

REV	DESCRIPTION OF REVISION	DATE	BY	CHKD	APPD	DATE
1	ISSUED FOR INFORMATION	25	VT	RS		05/06/08
2	ISSUED FOR INFORMATION	25	VT	RS		05/06/08
3	ISSUED FOR INFORMATION	25	VT	RS		05/06/08
4	ISSUED FOR INFORMATION	25	VT	RS		05/06/08



EDINBURGH TRAM NETWORK

SYSTEM WIDE
LINE 2
POST - NOVATION
PROJECT ISSUES

QUANTITY	STACHOWIAKJ	PREPARED BY	SHEDALLK
APPROVED BY	ChandlerJ	DESIGN DRAWING NO.	A1
DATE	25/06/2008	SCALE	1:10000
DRAWING NUMBER	ULE9010-SW-DRG-00652	REV	2

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