





EDINBURGH TRAM NETWORK INFRACO CONTRACT

PERIOD REPORT No 6 TO 13 SEPTEMBER 2008







CONTENTS

1	Executive Summary
2 2.1 2.2 2.3 2.4 2.5	HSQE Management Health & Safety Quality Environment Management System / Deliverables KPIs
3 3.1 3.2 3.3 3.4 3.5 3.6	Programme Contract Programme status Look Ahead programme Design and Consents Programme Status Tramco Programme Status Critical Impact Notices Milestones
4 4.1 4.2 4.3 4.4 4.5 4.6 4.7	Progress Mobilisation Engineering Civil & Building Works E&M Systems Trams Testing, Commissioning and Start-up Delays and Recovery Action
5	Not Used
6	Stakeholder and Third Party Issues
7 7.1 7.2 7.3	Commercial Milestones Changes/Instructions/Departures Risks and Opportunities
8	Resources
9	Other Issues
10 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8	Appendices KPI Report Programme Update Look-Ahead Programme (issued separately) Tram Programme RFI Register Civil Works Procurement Report Change Register Organisation Charts







1 EXECUTIVE SUMMARY

Mobilisation of management personnel is now essentially complete, and the construction delivery team will continue to increase in accordance with site activities. The Consortium Project office is now physically complete and equipped, awaiting IT/communications connectivity before being occupied. tie has expressed concern about delays in commencement of site activities and addressing this has been a key priority in the period. BSC will however also respond in due course providing detailed background to reasons for this delay, to clarify where responsibility lies.

23,000 hours, of which 5,000 were site hours, were worked in the period without any reportable accidents or incidents. production of management plan deliverables, construction control and safety documentation and Employer's Requirements documentation has continued in the period.

Efforts to reach agreement on the impact of the Notified Departure arising from the slippage from V26 to V31 of the design programme have not been successful and will now be resolved formally. Ongoing delays in design completion and the impact of changes and access/utility limitations are also being taken into account in programme updates.

Progress on completion of IFC design continues to be subject to the approval process. The increasing number of changes, many with significant design content, is a significant issue. Both contractor/designer and client teams must achieve greater efficiency in change management to ensure current delays are not exacerbated. Uncertainty over certification for payment of SDS design support resources is a threat to efficient close out of changes and approval of Consortium Design proposals, and needs to be resolved.

Systems design is progressing, and the operation of amending base IFC design to show Consortium proposals (trackform, OLE etc) can commence in the next period.

Civil materials and subcontractor procurement is proceeding, with initial works being carried out on Limited Instructions where necessary. Mobilisation for initial works is in progress for commencement of work activities in the next period. A look-ahead programme for works to the year end has been submitted and will be used for stakeholder notifications etc.

Systems and tram procurement is progressing. Concerns exist with trackwork design due to the lack of IFC drawings and the potential impact of changes







2 HSQE MANAGEMENT

2.1 Health & Safety

2.1.1 Safety Management, including CDM

The BSC Safety procedures training seminar has been rescheduled for September to allow new staff to be included.

The Network Rail Construction Phase Plan was accepted by Network Rail on 5th August. The document is under review by BSC for roles and responsibilities.

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 6.

There have been no accidents between the end of period 6 up to 29th August 2008

tie have classified inappropriate use of PPE on 27th August at the project site establishment offices as a Near Miss.

No reportable incidents in the period. There was one non-reportable incident requiring hospital attention (bee sting).

AFR for the first five periods is 0.00.

The total number of hours worked in period 5 was 22,917.

Non Site Hours = 18.119

Site Hours = 4,798

Breakdown of Site Hours
Parsons Brinckerhoff 1,110
BSC 888
Subcontractors 2,800

2.1.3 A joint BSC/tie training session has been held on Work Package Plans.

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.

The implementation of a solution to address the requirement for project collaboration and project control through BIW is ongoing. Further introductory training on BIW has been carried out and it is anticipated **tie** will have access within the next few weeks.

2.2.2 NCR's

NCR raised by BSC regarding resident complaint at Baird Drive has been resolved and closed out.

NCR No 36 raised by **tie** regarding Edinburgh Park fenced Green Zone has been closed out with training provided by **tie**.

2.2.3 Audit

An assessment audit was carried out on Barr Construction on 13th August, results were satisfactory. An assessment audit on Crummock is being arranged for the next period.

A BSC 'site set up' safety audit was carried out on 20th August, results were satisfactory.

Tie have arranged to carry out an audit on the BSC Project Management Plan on 4th September.

Environmental audit arranged for 3rd September.

2.2.4 Trend Analysis

Nothing to report at present

2.3 Environment

2.3.1 Environmental Management

The initial issue Construction Phase Project Environmental Management Plan was rejected by **tie.** The Revised Plan has been resubmitted.

KN Services have been contracted to advise on elements of survey works to supply appropriate spill equipment for control and spill response.

2.3.2 Issues

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







2.4 Management System / Deliverables

2.4.1 Management System

An update to the BSC Management System is due to be issued w/c 8th September.

2.4.2 Deliverables prior to construction commencement.

Project Management Plan

Reviewed at meeting on 20th August. Updates being progressed.

Network Rail Interface Plan

Accepted by Network Rail on 5th August.

Construction Phase Project Environmental Management Plan

Revised plan issued 28th August.

Archaeological & Heritage Mitigation Plan

Plan to be submitted w/c 1st September.

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 19th August 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 29 August 2008 has then been recorded against the above baselines including inputting the latest IFC dates received from SDS (V35).

Despite advice to the contrary we have still not received a revised MUDFA programme. Therefore where MUDFA completions were shown as being completed before the 01 August 2008 they are now defaulting to the data date (29 August 2008), which shows an artificially optimistic forecast.

The result is the following changes to Section Completion Dates:

	29 August Update	01 August 2008	29 April 2008
Α	24 June 2010	04 June 2010	25 March 2010
В	9 September 2010	20 July 2010	09 May 201
C	27 May 2011	16 May 2011	17 January 2011
D	23 November 2011	13 November 2011	16 July 2011

The above slippage is a direct consequence of incorporating design programmes V31 and V35 into the contract programme and is brought about by significant changes to the IFC dates for the following items in the period.

Subsection 1A3 Roads & Track. Ocean Terminal Tram Stop Victoria Dock Entrance Bridge Section 1B Roads & Track Section 1D Roads & Track Shandwick Place Tram Stop Section 2A Roads & Track W18 Murrayfield Tram Stop Retaining Wall Murrayfield Tram Stop Section 5B Roads & Track Section 5C Roads & Track Gogarburn Tram Stop **Depot Drainage** Section 7 Roads & Track W14 Gogarburn Retaining Wall Edinburgh Airport Tram Stop

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 by 3 weeks to 02 November 2008. However allowance would then need to be made for the delay and disruption of having to demobilise and remobilise resources associate with the track at South Gyle Bridge.

Programme update attached as Appendix 10.2

3.2 Look Ahead Programmes

The look ahead programme for this period is planned to update programmed works to the year end. As well as adding further detail, it makes a number of assumptions to be able to provide a working programme of the activities to be undertaken in the next 4 months. The following points should be noted.

- Roadworks are now planned to start in Leith Walk CH 100 to 350 on 29 September due to slippage of the IFC date following comments received from CEC.
- Our Works Package Plan for Haymarket Viaduct has received Network Rail approval and works are planned to commence on 01 September 2008
- A Provisional IFC Date of 19 September 2008 has been added for the Scotrail Depot Car Park.
- A provisional IFC date of 30 September 2008 has been used for Murrayfield Tram Stop Retaining Wall as CEC have rejected the previous design for Murrayfield Tram Stop Retaining Wall. This issue is also related to VE considerations at Roseburn. Design is now proceeding with "Option A" and we understand the SRU agreement has been signed but confirmation copy has not yet been received.
- The commencement of Russell Road Bridge, Murrayfield Stadium Retaining Wall (S21B), Carrick Knowe Bridge, Bankhead Drive Retaining Wall, South Gyle Access Bridge and Edinburgh Park Viaduct are dependent upon Network Rail Form C approvals and the temporary works design and associated ground investigation which is currently being progressed. Further SI works are due to commence on Mon 01 September 2008.
- Following the instructed redesign of South Gyle Access Bridge (and the connected Bankhead Drive Retaining Wall), options for avoidance of an existing sewer are now being reviewed. The Programme has a Provisional IFC Date added of 30 September 2008 until further advised.
- There is no programme allowance for the potential Change Order to relocate the street lighting cables at South Gyle Access Bridge.
- The programme does not include for the instruction to relocate the high voltage electric cable running through the proposed location of the north abutment at Carrick Knowe Bridge. We understand MUDFA may be attempting this work within the next two weeks.
- MUDFA works at Gyle Tram Stop Retaining Wall are ongoing at this time. Infraco works were due to start 01 Aug08 (V34) and are dependent on completion of the MUFA Works which are now assumed to complete around 12 September 2008.







- A8 underpass is programmed to commence on 01 September 2008.
 MUDFA plan to remove any conflicting traffic management by this date.
- We understand MUDFA are planning to divert the existing 1500 dia. sewer which passes under the A8 in time for the Phase 3 Infraco Underpass construction. Any delay at this stage of the underpass construction will suspend Infraco works. The subsequently redundant sewer will also delay Infraco piling works if the abandoned pipe is not filled with grout or other specified material.
- We understand that MUDFA should complete water main works around 15 September 2008, but BSC are to mobilise in the Depot Area on 01 September 2008 to commence earthworks. This will be inefficient and disruptive in comparison to full access for our works.
- The initial material excavated from the depot which was to be taken to the surcharge embankment in Area 7, will now initially be used to re-construct the haul road which is in poor condition.
- Murrayfield Accommodation Works Agreement has been signed but not received. These works were programmed to commence during the SRU closed season.
- IFC drawings for the Hilton Hotel car park (Section 7) have not yet been received. A Provisional IFC Date of 30 September 2008 has now been programmed.
- The sewer diversion works at Gogarburn Bridge have been passed to the Infraco. It is anticipated that the works will commence 22 September 2008.

Look Ahead Programme issued separately

3.3 Design and Consents Programme Status

BSC and **tie** have been in discussions regarding design programme V31, which is a Notified Departure, since making the initial notification. To date, no agreement has been reached on entitlement to Extension of Time. tie have now advised that their evaluation of entitlement is 5 working days, whereas BSC's position is that the entitlement is at least the duration by which the programme slipped (approximately 9 weeks) and that **tie** are not entitled to unilaterally reschedule the contract programme to amend EOT.

BSC submitted a revised programme on 14 August 2008 to take account of the effects of V31 of the design programme. A further meeting is scheduled to be held tie / BSC on 3 September 2008 to discuss the logic of this programme.

BSC will make a submission for entitlement to EOT when resources are available (planning for mobilisation and other changes is taking priority at present), to provide full details and allow resolution, externally if necessary.







3.4 Tramco Programme Status

Tram design, procurement, manufacturing, delivery and commissioning programme to follow.

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 are still experiencing slippage to the programme as the result of the late release of IFC drawings. V35 has now been issued and substantial slippage of IFC dates is ongoing.

CIN003 - Track/Roads Alignment Issues - update

We are now programmed to commence roadworks on Leith Walk on 29 September 2008 due to delay with IFC drawing approval. IFC drgs are now expected on 15 September 2008. Our current programme does not include for full reconstruction in all areas of Leith Walk.

CIN004 - Transfer of MUDFA Works to INFRACO - update

Utility diversions transferred to Infraco now include:Gogarburn Bridge (redesign/diversion of existing sewer)
Gogar Landfill Area (diversion of existing sewer)
A8 Underpass (existing BT ductbanks to be accommodated/protected)
South Gyle Access Bridge (bridge redesign due to existing sewer)
Carrick Knowe Bridge (HV cables to be diverted)
Water of Leith Bridge (existing sewer to be diverted)
Murrayfield Underpass (existing sewer to be diverted)
Russell Road Retaining Wall (existing sewer to be diverted)

These works will effect the commencement and/or programme for these structures and associated works.

CIN005 - Network Rail Form C Implications - ongoing

The Murrayfield structures and Bankhead Drive Retaining Wall post design freeze drawings now include a considerable element of temporary works. These structures will be prolonged both for the time taken to construct the temporary works and the associated Network Rail Form C approvals

CIN006 - Murrayfield Accommodation Works - update

We understand the third party agreement with the SRU has been signed. We further requested a copy of the Agreement on 29 August 2008. The associated accommodation works were programmed to be undertaken between June and August 2008 to allow construction of Structure 21B and







access to 21E. If this work has to be delayed until next summer it will have a critical effect on the programme.

CIN007 - TTRO / TRO Conflict

We understand CEC believe that TTRO's cannot mirror the final TRO that is required for the operation of the Tram. However in some instances there will be sections of the work completed before the TRO is in place. For example, Shandwick Place Tram stop will form an obstruction to the current flow of traffic until the TRO is in place that means only Buses and Trams run along Shandwick Place. A significant prolongation of the contract would occur if works had to be delayed until the TRO was in place.

CIN007 - Contamination - new

Contaminated ground is now understood to exist at the following locations:-Gogar Surcharge Area

Baird Drive

Haymarket (railway ballast)

Murrayfield Car Hire (underground fuel/oil tanks)

The programme does not currently make any allowance for the work involved with test time and disposal procedures.

By geographical area the issues are as follows:

Section 7;

- The construction of Burnside Road for BAA.
- Airport Tramstop design and BAA approval.
- RBS requirements for Gogarburn Tramstop.
- MUDFA Completion date.

Section 6;

- Completion of the 800 diameter water main diversion.
- Completion of other MUDFA works.

Section 6 / 5C;

1500 Sewer diversion.

Section 5C:

- MUDFA completion.
- · A8 Underpass value engineering.

Section 5B;

- MUDFA completion.
- Transfer of MUDFA works to INFRACO

Section 5A:

- SRU Accommodation Works.
- · Roseburn Street Viaduct value Engineering (Option A)
- Scot Rail Depot (Oil Tanks etc.).
- · MUDFA completion.







Section 2;

Sections 1D, 1C, 1B, 1A;

- · Alignment of pavement design with INFRACO bid.
- Transfer of MUDFA works to INFRACO

Timely resolution of the aforementioned issues is essential to achieve the programme as currently presented.

3.6 Milestones

No amendments to or comments on the current milestone allocation/structure.







4 PROGRESS

Programme update attached as Appendix 10.2.

A look-ahead programme was discussed on 3rd and 5th September, showing works commencement where possible in the period up to the year end. This programme has been issued separately and is not attached to this report.

4.1 Mobilisation

4.1.1 Consortium

The Consortium Project Office is complete and furnished, with temporary power and permanent water/drainage connected and furniture installed. The IT/telephone landline connection, which was further delayed while **tie** and the landowner resolved the cable wayleave, is the remaining obstacle to occupation. The current forecast is that the Consortium management team will move in towards the end of September.

tie have amended their IT/communications requirements and are making their own arrangements to install the necessary equipment and cabling.

4.1.2 Civil & Building

In the period, the remaining senior members of the Civil & Building Works team have joined the project, including:-

- · Commercial Manager
- 2No Works Managers
- Change Manager

Works commencement has been impacted by procurement delay, resource availability, late design issue and utility diversion requirements. BSC will respond to criticism by **tie** of mobilisation, with details of the impact of these problems and the underlying reasons, as soon as possible. The priority at present however, is to achieve commencement of safe and efficient working where possible.

4.1.3 E&M Systems

All required staff available

4.1.4 Trams

CAF are fully mobilised, no further comment on mobilisation will be made in future reports until mobilisation to site is programmed.







4.2 Engineering

4.2.1 Civil & Building Design

4.2.1.1 Production of Design

Total Number of Detailed Design Packages	Total Delivered	Total Outstanding	
330	311	19	
Total Number of Planning/PA/Building Warrant Packages 97	Total Approved	Total Pending Approval 22	Total Remaining to be Submitted
Total Number of Technical Approval Packages	Total Approved	Total Pending Approval	Total Remaining to be Submitted
115	68	37	10
Total Number of IFC Packages	Total Delivered	Total Outstanding	
115	68	47	1

From a total of 212 approvals:

60% are approved (127)

28% are pending approval (59)

12% to be submitted (26).

11 Approvals were granted during the last 4 weeks.

Including a two week forecast there will be the following approvals:

70% will be approved (150)

19% will be pending approval (40)

11% have to be submitted (22)







4.2.1.2 Approvals & Consents

Prior Approvals - BSC is continuing to inform **tie** of the delays or potential delays regarding prior and technical approvals due to numerous design changes from CEC during the formal consultation stage.

It is of great concern that after the extended period of informal consultation new comments are received at this stage which will, in many cases impact on the IFC dates and will require change instructions to be issued for the design to be amended. The informal consultation process, intended to avoid this problem, can not be considered sucessful.

Drainage Consents - applications submitted to Business Stream on 29 May 2008 and the acknowledgement from Business Stream on 3 June 2008 to say our application had been "accepted and passed to Scottish Water"

Assuming Scottish Water's review period started on 4 June 2008, BSC should have received a response by 18 June 2008. The issue was escalated with tie at the start of July and contact was made with Scottish Water chairman. SW appears to be dealing with applications now, although very little work has taken place on SDS's applications. A new meeting with Scottish Water has been arranged for 1 September 2008. Scottish Water are now working on the approvals.

Technical Approvals (Roads) – remaining design issues are being progressed at weekly Technical meetings with CEC. Prioritisation programme agreed with CEC.

As noted above, the number of comments from CEC in their formal responses is a real problem e.g.; 1C1 and 1C3 (minus 1C2) had 1200+comments (70 pages of comments) after an extended opportunity to jointly participate in design development.

Technical Approvals (Structures) –5 submissions remain outstanding. All others are either approved or with CEC for approval.

Specific Issues

Section 1

Outstanding - Planning Approvals

- 2 Ocean Terminal Batches (Tramstop and Bypass Road) on hold.
 Both have yet to be submitted as the ongoing Forth Ports agreement has to be finalised in terms of formal layout.
- 5 applications under consideration now on hold to allow for third party negotiation and submission of further design amendments. These are the 3 Newhaven applications (Tramstop and Retaining Walls x 2), Tower Place Bridge and Shandwick Place.







- New batch: 1/04a Victoria Dock Entrance Bridge will be created to meet IFC deadline. BSC awaiting Instruction from tie to progress design.
- 1/12 Picardy Place to be submitted to CEC 05/09/08. There is
 potential for a delay in submitting this application as CEC Planning is
 reluctant to start Informal Consultation until a formal decision is taken
 regarding the future use of the proposed realm space. CEC need to
 provide a clear and formal position on this matter.

Outstanding - Warrants

- 1/07c Leith Walk substation: Response needed to CEC Report.
- 3 Warrants to be submitted. These are the building on Lindsay Road, Cathedral Lane toilet block, and the Police Box coffee bar. BSC have to provide method statements

Outstanding Listed Building Consents

11 Listed Building Consents are due for approval w/c September 1^{st.}
This follows an internal oversight made by CEC Planning. 8 IFCs
have been delayed as a result of this request for additional time to
determine these applications.

Outstanding - Technical Approval

3 Technical Approvals are due to be submitted in the next 2 weeks: Victoria Dock Entrance Bridge (04/09/08); 1A4 Roads (05/09/08) and 1C2 Roads (02/09/08).

5 technical approvals currently pending consideration as follows:

- Lindsay Road Retaining Wall (due 13/10/08)
- 1A1 Drainage (due 05/09/08)
- 1A1 Roads (due 05/09/08)
- 1A2 Drainage (due 05/09/08)
- 1A2 Roads (due 05/09/08)
- 1D Roads (due 29/08/08)

Section 2

Outstanding - Planning Approval

 Potential for 2/01 Haymarket to be resubmitted for Prior Approval pending outcome of Roads redesign.

Outstanding - Building Warrants

 2 warrants to be submitted: the Crew Relief facility at Haymarket and 20-22 Russell Road. BSC to provide method statements and plans







Section 5

Outstanding - Planning Approvals

- 5/06 Murrayfield Stadium Tramstop is pending consideration but on hold. SDS change estimate with BSC to approve and issue.
- Murrayfield Accommodation works and Tramstop Gogarburn both on hold. This is due to ongoing value engineering exercise and awaiting RBS concept design (expected 30/09/08) respectfully.

Outstanding - Warrants

- 4 warrants to be submitted (29 Roseburn St., Murrayfield Stadium works, 127 Balgreen Road and the ATC hut). BSC to provide method statements and plans
- 2 warrants recently approved (15-21 Roseburn St. and 39 Roseburn St.).

Outstanding - Technical

5 technical approvals are currently under consideration as follows:

- Balgreen Road NWR Access Bridge (due 29/08/08)
- 5A Roads (due 23/09/08)
- 5A Drainage (due 23/09/08)
- 5C Roads (due 29/08/08)
- 5C Drainage (due 29/08/08)

Section 6

Outstanding - Planning Approvals

• 6/22 Depot Access Road Bridge is pending consideration.

Outstanding - Warrants

6/21a Depot Building Warrant: Respond needed to CEC report.

Outstanding - Technical Approval

3 technical approvals are currently under consideration as follows:

- Depot Earth banks (due early September)
- 6 Roads (due 08/09/08)
- 6 Drainage (due 08/09/08)

Section 7

Outstanding - Planning Approval







- 7/31 Reconfiguration of Hilton Car Park is pending consideration and is due for decision on August 29th.
- All Gogar Culverts have recently been approved.
- 7/29 Airport Tramstop to be submitted for Prior Approval on 05/09/08.

Outstanding - Technical Approval

Gogarburn Retaining Wall 1 & 2 due to be submitted 28/08/08. 3 technical approvals are currently pending consideration as follows:

- Gogarburn Culverts (due 29/08/08)
- 7A Drainage (due 02/09/08)
- 7A Roads (due 02/09/08)

Roads

Pavement design – BSC have issued the factual test report to **tie**, CEC and SDS for assessment. The design report is due on 8 September 2008. An approval procedure has been agreed between BSC, **tie** and CEC on 28 August 2008.

Utilities

Information from tie/MUDFA is now concluding on CCTV sewer and manhole and sewer positions within the tramway exclusion zone and at structures.

Now in receipt of the sewer information BSC/SDS are issuing approval drawings to Scottish Water and **tie** for the sewer diversions. BSC/SDS have submitted the majority of Line 2 sewers designs for approval from Scottish Water,

Section 1A sheets 11-12 has been submitted for approval to SUC's and tie awaiting response.

At Newhaven **tie** has proposed an easement outside the LOD and asked to begin the design of the utilities works located inside of the LOD with the assumption that tie will obtain the design and approvals for the work outside the LOD.

The remaining outstanding utility diversions design consist of those areas that the infrastructure design is not confirmed to a reasonable level of certainty to allow the design to take place i.e. Ocean Terminal were the kerb positions are still to be confirmed and the revised diversions of Picardy Place were we are awaiting acceptance of design solution.







4.2.1.3 Issues and Concerns

Change Orders are not being issued by **tie** in a timely manner to commence design changes, to minimise impact on programme. At present there are 69 changes. 16 nr recorded delays to the submission of IFC's will be issued if there is a knock on effect

South Gyle Access Bridge: Change Order is urgently required such that the Feasibility Study for any re-design/amendment may move forward.

A page turning exercise for each section/sub-section is required for the benefit of the additional new BSC Team. A date of 3rd September 2008 is proposed to start at Section 1.

The current design is in accordance with Edinburgh standards for roads as instructed by tie, it is now the intention of CEC that the national standards are to be used. This can impact on pedestrian crossing times which can affect the traffic model. BSC need to be instructed.

As reported last month, finalisation of the design in the Forth Ports area continues to be in delay due to the continuous cycle of change requests to the design. BSC have not been formally made aware of any final agreement between CEC and Forth Ports on bypass road. This is fundamentally impacting the TRO and Ocean Terminal designs. tie have instructed to move the design on with Rev 3 of the agreement drawings. SDS understands, however, that these issues are not formally resolved with Forth Ports. Consequently, CEC is not able to provide inputs to the designs for approvals, and objection to the Planning / Prior Approvals in the western area of the FP agreement have been received from an impacted stakeholder (ADM Milling) not party to the FP agreement.

BSC believe that the SRU agreement has been signed, but has not received a copy. BSC are aware of the impact of some of the changes made from the draft version previously issued, namely the structure design across Roseburn Street and the Accommodation works around the Stadium. BSC await a copy of this agreement and the associated Change Control documentation.

Structures

Redesign of 'Option A' of the Roseburn St Viaduct re-design is in progress. As above, BSC await the final SRU agreement in order to mitigate risks, assumed in the cost estimate, prior to commencing re-design in this structure. The accommodation works will need to be re-designed, much of which BSC believe is outwith the LoD. BSC await Change Notification of this design if appropriate.

South Gyle Access Bridge – Requirement letter from **tie** was received to revisit the structural design of the bridge in order to clear Scottish Water sewers in the vicinity of the sub-structure. VE investigation is ongoing and change estimates have been submitted to **tie** for South Gyle Access Bridge,







Russell Road Retaining Walls and Gogarburn Bridge Sewer. BSC have requested formal Change Instruction for this work.

With regard Russell Road Access Retaining Walls the comparison of this late information has highlighted that a diversion of the sewer is no longer the best solution and that the structure should be modified. BSC has submitted a Change Estimate for Russell Road Access Ramp Retaining walls to be modified.

BSC is currently reviewing the impact on Water of Leith but the current information supplied does not appear to be accurate to make a complete assessment.

BSC have submitted an estimate for the redesign of Gogarburn Bridge Sewer diversion to relocate the existing sewer to inside the abutments of the structure rather than the existing proposal to locate outside adjacent to the Gogarburn and await instruction.

Forth Ports

There is still not final agreement between CEC and Forth Ports on the proposed bypass road (Road 8). This issues is fundamentally impacting the design development and finalisation of the TRO and Ocean Terminal design. tie have previously instructed SDS! to move the design on with Rev 3 of the agreement drawings. SDS! has been advised verbally by CEC that the bypass road continues to be negotiated with FP, and that CEC cannot review the technical or planning approvals until such a time that the Forth Ports requirements are known. Up to date, this information has not been received. Additionally, 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 SDS! on this and have advised that they cannot come to decision until such issues are resolve. SDS has provided a design in accordance with the revised FP agreement, as instructed, and the negotiation with the 3rd party is not within their scope.

Haymarket Roads

BSC/SDS have submitted an updated Roads and track 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.

Haymarket Taxi Stand

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.







Shandwick Place Landscaping

On 14 August 08, CEC provided a letter to 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. CEC have not provided any further inputs to BSC/SDS regarding the outcome of the meeting. This issue needs to be resolved, as it is one issue at this location delaying the Prior Approval.

Shandwick Place design changes

CEC have requested several design changes in this area, including shifting of the stop, redesign of street lighting, and relocation of cabinets. BSC has received client notice of change and is awaiting finalisation of change instruction. This will impact the Prior Approval, technical approvals, and IFC drawing submittals.

Picardy Place

Design development is underway based on instruction provided. Outline layout agreed with CEC Roads Authority at regular working group meeting on 06 August. CEC have recently requested additional modifications / clarifications to the design being developed. BSC/SDS provided this information to CEC as requested. A letter was provided to CEC on 25 August 08. BSC/SDS informally provided a concept layout for the island finishes to CEC on 20 August 08. CEC advised that no comment could be provided at this time, and that further internal discussions were required. An internal CEC meeting was understood to have occurred on 26 August, with a further meeting requested for 28 August. CEC subsequently cancelled this meeting, and have advised that they will be requ`esting additional design development information for further internal discussions. This information request has yet to be received. This may further impact on the Prior and Technical approvals processes.

Tower Place Bridge

CEC provided a letter to BSC/SDS on 28 July 08 outlining planning concerns over the previously agreed (with CEC structures) technical solutions to the pedestrian parapets. Solutions were provided to CEC which reflect the discussions, however, further consultation is continuing, as CEC planning have not accepted the revised proposals.

Victoria Docks Entrance Bridge

No instruction received to date. Delay to IFC now likely.

Delay to Murrayfield Stadium Tram Stop and Murrayfield Stop retaining walls IFC







Change Estimate was issued to **tie**. The IFC's are already delayed for these items. BSC await a Change Order from **tie** in order to progress the re-design and approval of these items.

BAA

BSC, SDS, TEL, Transdev, **tie** and BAA have agreed a Way Forward in Principal in order to progress the design and approvals at the Airport. BSC/SDS are planning to issue the Prior Approval w/c 8th September 2008. BSC also await BAA's confirmation of the design for the covered walkway over the Kiosk. It is believed 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 **tie** are aware, and the phasing of this will drive the design in the Airport area in some key areas. BSC issued a Change Estimate for a Feasibility Study to design the diversion of Burnside Road and await further instruction with regard to this change.

Airport

As a result of the delay associated with the Prior Approval and changes in the vicinity of the Airport. BSC anticipates that the following IFC will be delayed:

Airport Stop (A27800) 9 September '08. Gogarburn Retaining Walls (431 & 461) 8 October '08. 7A Roads, Lighting, landscaping, OLE (SDS30920) 1 October '08

Other issues

MUDFA as-built records have been requested from **tie** in an accurate format. Submissions received so far fall short of this requirement. Letter written to **tie** 28/08/08 advising **tie** of the BSC requirement to fully coordinated as built drawings. BSC have stated "Red Line Drawings" not sufficient for safe construction practices.

The construction support and design support teams for the next period are shown on the organisation charts attached in Appendix 1. A procedure for calling off resources and payment has been discussed but is still not working. tie have again rejected application for payment, on the basis that certain staff allocated to construction or design support have apparently been identified assisting with other tasks. BSC's view is that this issue is more than compensated for by the extended hours actually being worked (but not billed) by technical staff in the design team, and that the overall design effort is likely to be adversely affected. BSC have instructed SDS that staff allocated to construction or design support are to decline to assist in other activities, and any such requests from tie or CEC to avoid such clashes in future.







4.2.2 E&M Systems Design

Overhead Line Equipment

- Design
 - Preliminary design nearing completion, internal review to be held Sept 2008.
- Approvals and Consents
 CEC buildings fixing meeting supported

Traction Power Supply

- Design
 - On programme
- Approvals and Consents No comments

Trackwork

Design

Preliminary Track Design Report has been written and is being reviewed within BSC.

Verification of Alignment Drawings in progress.

Basic design is being written

Depot Workshop Equipment

Design

DWE design phase started on all equipment as

- Vehicle washing plant
- o Under floor wheel lathe
- o Under floor lifting plant
- o Crane
- o Service Vehicles
- Approvals and Consents
 First Design submittals under preparation

Signalling, SCADA, PIS, PA, Comms

- Design
 - On programme. Preliminary Design in progress
- Approvals and Consents
 Site demonstration to CEC, Transdev of PIS, PA, Scada at Siemens
 Ashby 2/9/08







Traffic Light Controls

- Design Final road layouts awaiting confirmation
- Approvals and Consents As above

HV Power Supply

- Design Surveys by Scottish Power, with BSC in attendance, taking place in September 2008
- Approvals and Consents
 To be clarified post surveys

4.2.3 System Assurance

Participation at PSCC Meeting, progress as expected

4.2.4 Design Change Management

Civil & Building Work

The design change management team is in place and administering the large number of notifications and instructions to and from SDS and Tie. After initial lags as communication protocols were established, the notification process to tie is working efficiently. Response times from tie are however becoming more and more extended, having a further delay impact on change implementation.

E&M

Request for design changes and investigation on cost impacts is under investigation.

Changes of SDS design required due to E&M technical proposal still under investigation.

OLE

Confirmation of the basis of design for the OLE tensioning system, which is compliant with the Employer's Requirements but at variance with the original Client design was notified in writing 15th August 2008.

4.2.5 Value Engineering

Civil & Building Works

Redesign of Roseburn Street Viaduct has commenced

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 assessment is in progress, however, all these activities are in progress and are, in BSC's view, not feasible in







programme terms. Further instruction has been requested by BSC for VE12 and will be sought for VE7 and 14 as soon as possible.

E&M Systems

No specifics addressed

4.2.6 Request for Information

4.2.6.1 Civil & Building Works

See Appendix 10.5 RFI Register

4.2.6.2 E&M Systems

RFI's for design clarification still under distribution, details to be collected from BIW.

4.3 Civil & Building Works

4.3.1 Procurement

4.3.1.1 Subcontractors

A subcontract procurement schedule, showing status at 2nd September, is attached as Appendix 10.5.

The procurement of civil package contractors is progressing in line with the construction dates based on the V31 design programme dates.

Section 1A

Negotiations are ongoing with RJ McLeod, however it is likely that we will need to seek an alternative contractor for this section or split the section into smaller more manageable sections to ensure continued interest.

Section 1B

We have concluded our procurement process for Section 1B and it is our intention, subject to formal consent being achieved to subcontract this section of the works to Crummock Ltd, as a direct subcontractor (i.e with an element of BSC site management, rather than as a Key Subcontractor.

Section 1D

Subcontractors are actively pricing Section 1D and a return date for enquiries is set for the 4th September 2008 after which we will carry out a review of those prices and decide on a way forward.

Section 2A and 5A (Part)

The Limited Instruction to Proceed issued to Grahams for the demolition of the Caledonian Ale House can be amended to include other areas of Section







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

Until such times as we have concluded our subcontract discussions with Grahams we are proceeding with the employment of labour only subcontractors to progress the works.

We are progressing the procurement of a piling subcontractor for Russell Road Bridge.

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

We have sought quotations for Formwork, Reinforcement and Concrete for all of the structures along this section and we are in final negotiation with one of these contractors to award Edinburgh Park Bridge. Negotiations on other structures are ongoing.

We are in the process of issuing a letter of intent for piling on the A8 Underpass to secure equipment required by the current programme and this should be concluded before the end of the week.

Discussions are on going regarding other smaller trade contractors.

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. Barr are mobilising with a view to commencing work as soon as information is available. The work area is not in a fit state to commence, being left incomplete by the MUDFA contractor, and an instruction to clear the area will be sought prior to works commencing.

Section 7A

Final negotiations are proceeding with Farrans to conclude a subcontractor order and a meeting is arranged for the 3rd September 2008 to finalise the terms of their subcontract order. Initial work activities are in progress.

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.

4.3.1.2 Materials

Procurement of precast beams, bearing and other major materials are being progressed in line with the construction dates based on the V31 design programme dates, although technical design issues with the beams shown in the IFC design for p.c beams have affected timescales. Non availability of







IFC design is a concern in that delay could expose the contractor to further inflation based price rises.

Reimbursement for such cost impact would be sought as part of the impact of such external delay.

4.3.1.3 Long Lead Procurement Management

A letter of intent has been issued to Fairfield Mabey to secure delivery of the beams for the Water of Leith bridge in early December and we are about to issue an order for the supply of precast concrete beams.

Whilst procurement of many items is progressing the late issue of 'for construction' drawings is affecting our ability to secure a fixed price. The cost impact of such delay is outside our control and will be the subject of further discussion with tie.

4.3.2 Construction

4.3.2.1 Progress on site, to 16th Sep 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 are ongoing and internal decoration has commenced. Building occupancy is scheduled for 22nd Sept

Ch 100-350 - Mobilisation has commenced.

Traffic Management Scheme scheduled for erection 29th Sept with construction activities scheduled to commence 30th Sept

Section 1C McDonald Rd to Princess Street West

No activities planned to commence during the period

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 activities have commenced on piers 2, 3 & 4

Section 5A Roseburn Junction to Balgreen Rd







Baird Drive Retaining Wall - Site Clearance has commenced.

Site access and compound access has been established.

Site Clearance to Murrayfield Retaining wall has commenced.

Demolition operations have commenced at Simlock, Viking & NCR buildings

Russell Rd Underbridge – Site Investigation has been completed. Temporary works design required to contain existing structure is being progressed

Site Clearance/Investigation has commenced.

Section 5B Balgreen Rd to Edinburgh Park Central

Carrick Knowe Bridge – Site Access construction has commenced.

Temporary works required for track support zone is currently being designed

Site establishment/clearance has commenced

Track work - Site investigation has commenced

Edinburgh Park Station Bridge – Site Access works have commenced. Sub Structure construction has commenced on Piers 5 & 6. Temporary works for Piers 3 & 4 design has commenced.

Demolition consents ongoing - ATC & Busy Bee

Section 5C Edinburgh Park Central to Gogarburn

Establishment of Consortium office has continued. Alterations to internal layout have now been completed. Water and temporary electricity supply have now been established. IT & phone connection now scheduled for Mid Oct

Depot to Gogarburn - Plant crossing construction complete

Gyle Tram stop/Retaining Wall – Site Access approved. MUDFA works ongoing

A8 Underpass – Traffic Management phase 1 has been established. Preparatory work for piling including installation of guide walls has commenced.

Piling commenced 15th September

Section 6A Depot

Topographical Survey has been completed

Mobilisation has commenced. Accommodation erected 15th Sept.

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







Section 7A Gogarburn to Edinburgh Airport

Mobilisation has commenced. Accommodation has been erected.

Site Clearance has commenced

Submissions

Archaeology & Environmental Mitigation plan have been submitted

17 Work package plans have now been approved/accepted

24 Work package plans are currently in draft form

4.4 E&M Systems

4.4.1 OLE (Overhead Line Equipment)

Production / Procurement

Requests for expressions of interest based on outline design to be issued by end of Sept 08

Issues and Concerns

Management of likely layout changes such as Haymarket

4.4.2 TPS (Traction Power Supply)

Production / Procurement

No issues

Issues and Concerns

No issues

4.4.3 TRW (Trackwork)

Production / Procurement

- o Critical materials have been contracted
- Part of the rails and Rheda sleepers will be delivered by the end of October 2008.
- The first pieces of test-track are foreseen to be constructed in November/December 2008.
- The first turnouts will be installed per March / April 2009 depending on agreement on the technical details

Issues and Concerns

- No clarity regarding document / drawing status. Very few drawings "Issued For Construction"
- Changes in design due to VE-requests and Change Orders may influence the programme.







- No information yet on the wheel to be used. It will influence the programme regarding delivery of turnouts.
- o Storage area not available yet

4.4.4 DWE (Depot Workshop Equipment)

Production / Procurement

Procurement of DWE equipment already started. Selection of suppliers in progress.

Production of DWE equipment will start after approval of design submittals.

• Issues and Concerns

Some RFI regarding DWE equipment are still open. Need to be answered to finalise design.

4.4.5 Signalling, Scada, PIS, PA, Comms

 Production / Procurement No issues

 Issues and Concerns No issues

4.4.6 TLC (Traffic Light Control)

- Production / Procurement
 Final road layouts awaiting confirmation
- Issues and Concerns
 As above

4.4.7 HV/LV - Supply

- Production / Procurement
 To be clarified post surveys
- Issues and Concerns
 To be clarified post surveys

4.5 Trams

4.5.1 Procurement

No Comment







4.6 Testing, Commissioning and Start-up

No comments

4.7 Delays and Recovery Action

At present, delays due to late issue of design, the volume of change to be administered and the impact of unresolved utility issues on commencement are all increasing. The scale and impact of these issues is still emerging, and it is not yet possible to develop general measures for recovery.

BSC mobilisation for commencement of construction has been criticised by **tie** as an avoidable delay. This is not our view, and we will substantiate the current position for evaluation in due course, however the primary focus at present is identifying areas where works can be safely and efficiently commenced. A detailed look-ahead programme showing works commencement to the year end has been issued, and will be monitored to identify potential for delay recovery wherever possible.







5 NOT USED

6 STAKEHOLDER AND THIRD PARTY ISSUES

Cooperation with tie's stakeholder team is working well, with weekly meetings now identifying future areas of required action.

Traffic Management input into the stakeholder information process continues.

7 COMMERCIAL

7.1 Milestones

Milestones Achieved in the Period

Month 4 Preliminaries (BB) Month 4 Preliminaries (S) Month 4 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 16th September 2008 where milestones which have not been achieved will be reviewed.

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

No comments

8 RESOURCES

8.1 Organisation Chart

See Appendix 10.7

9 OTHER ISSUES







No comments







- 10 Appendices
- 10.1 KPI Report

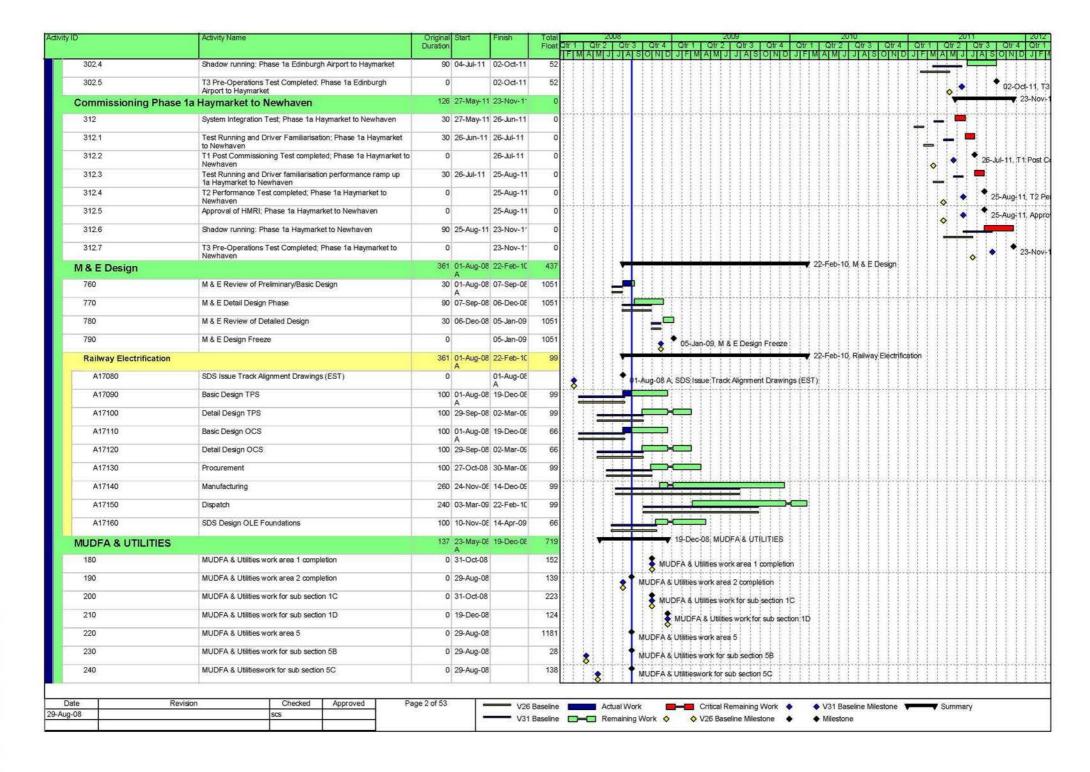


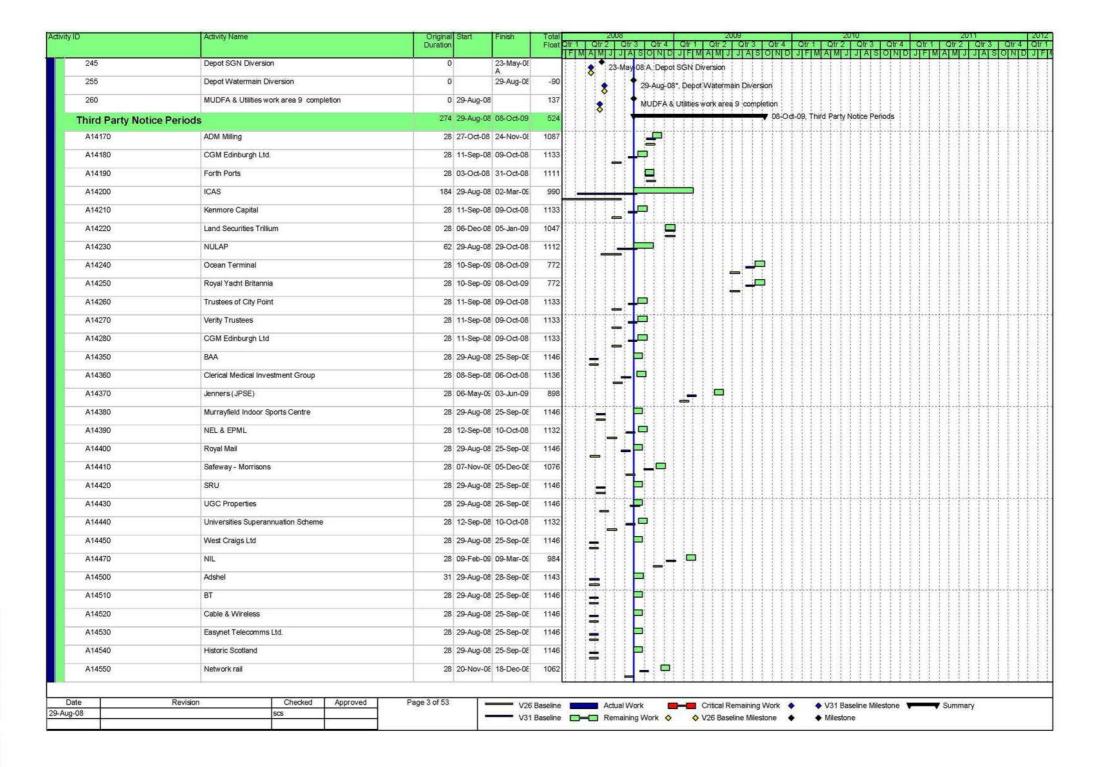


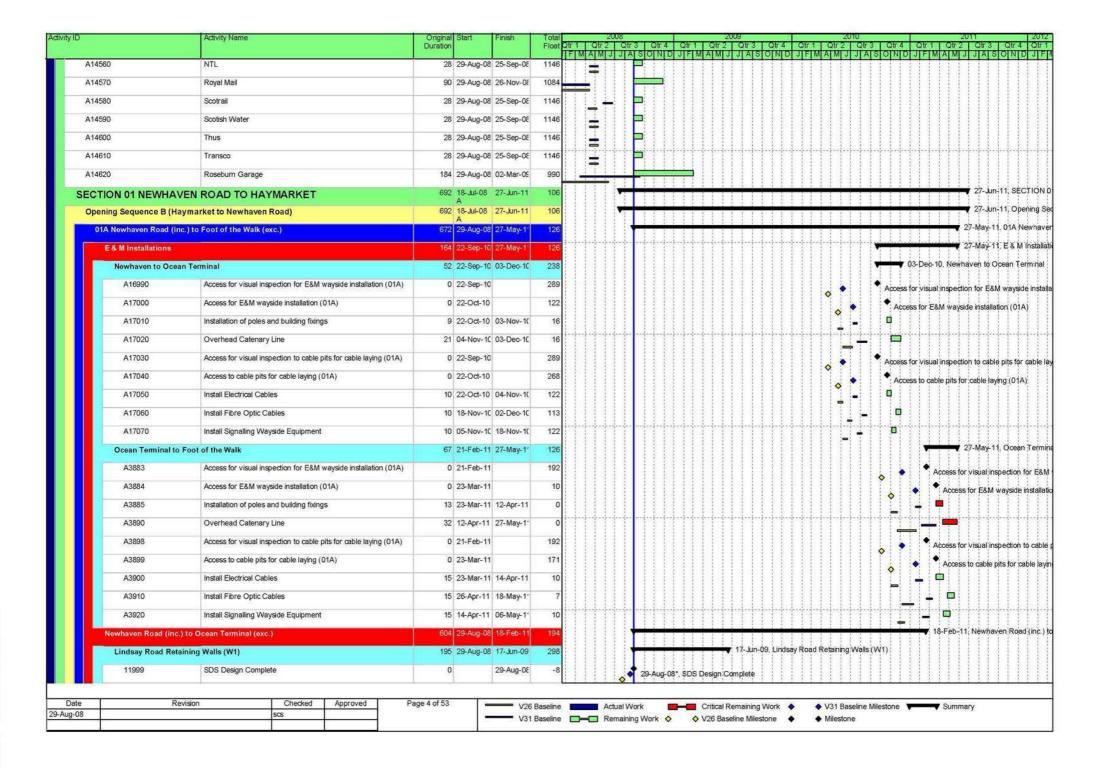


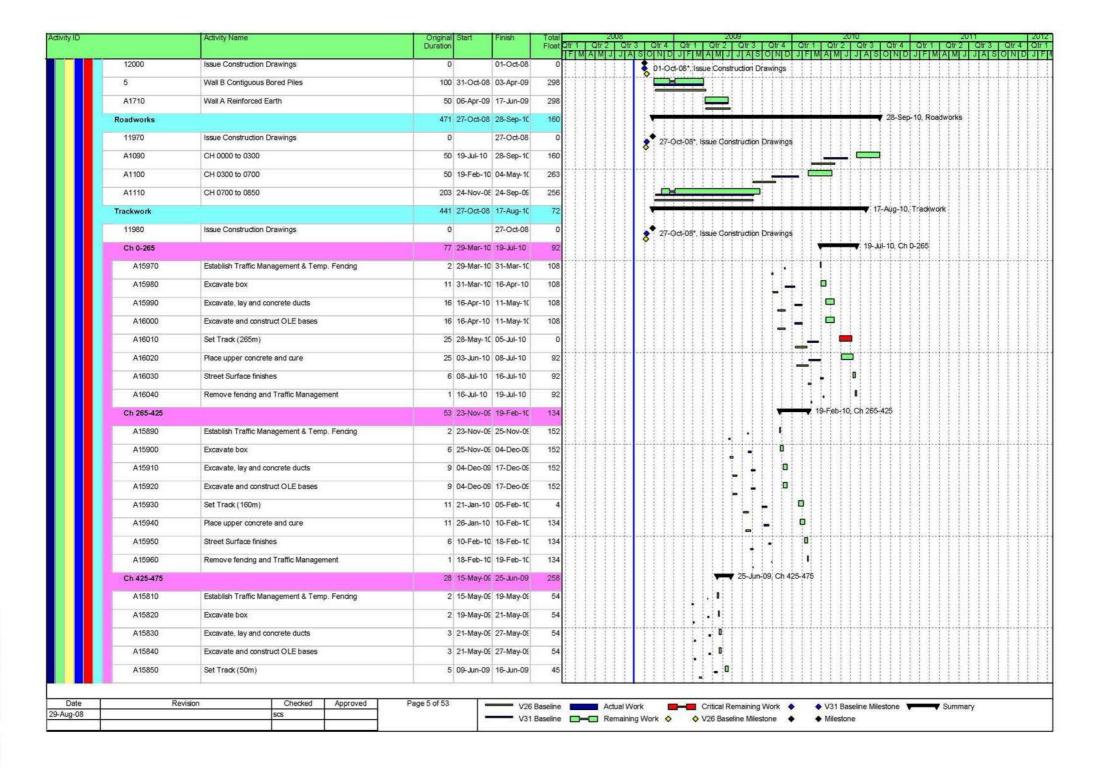


10.2 Programme Update

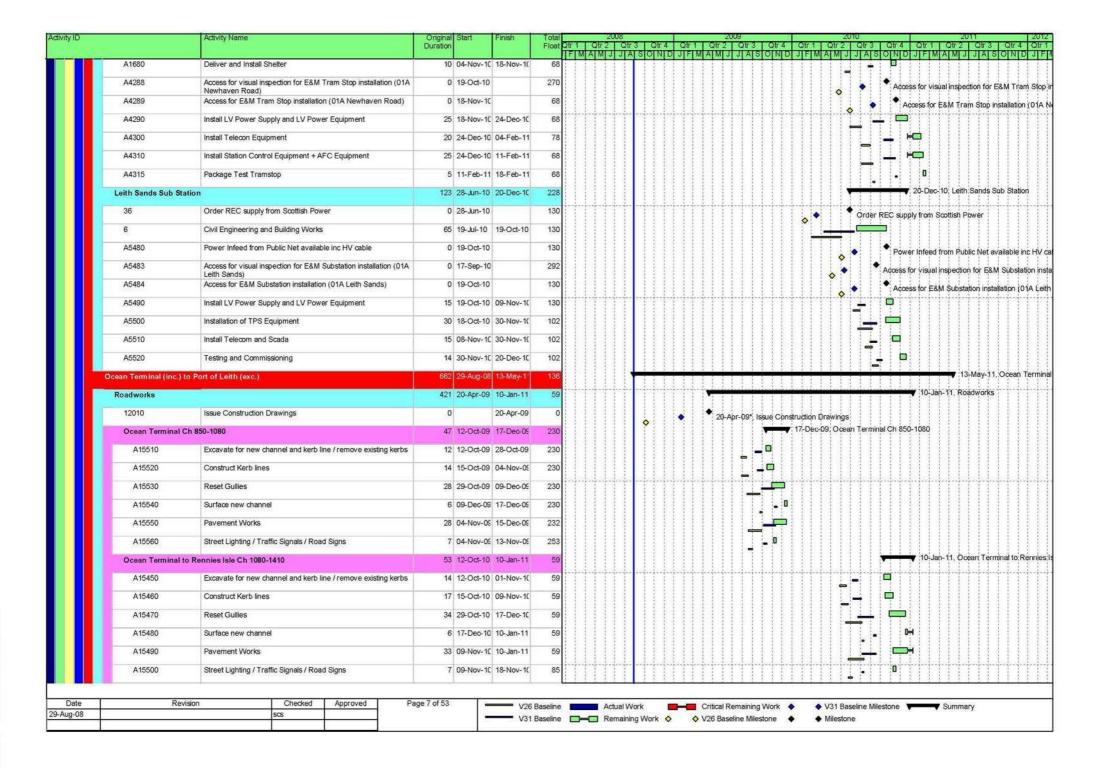




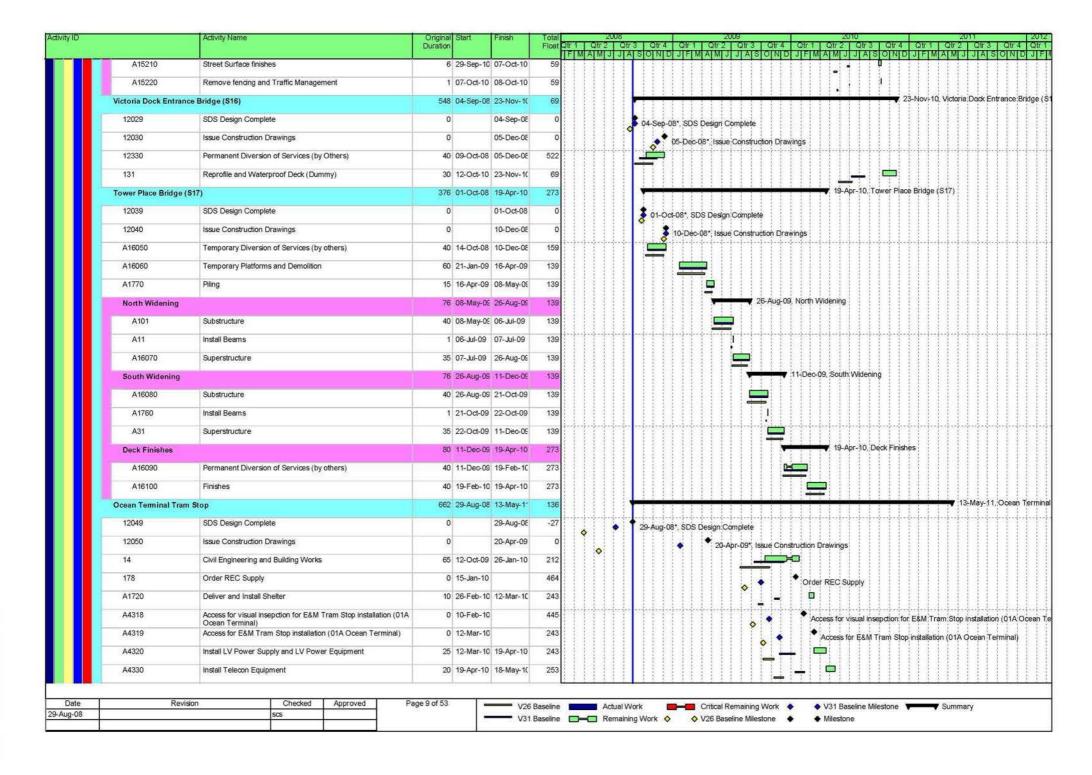


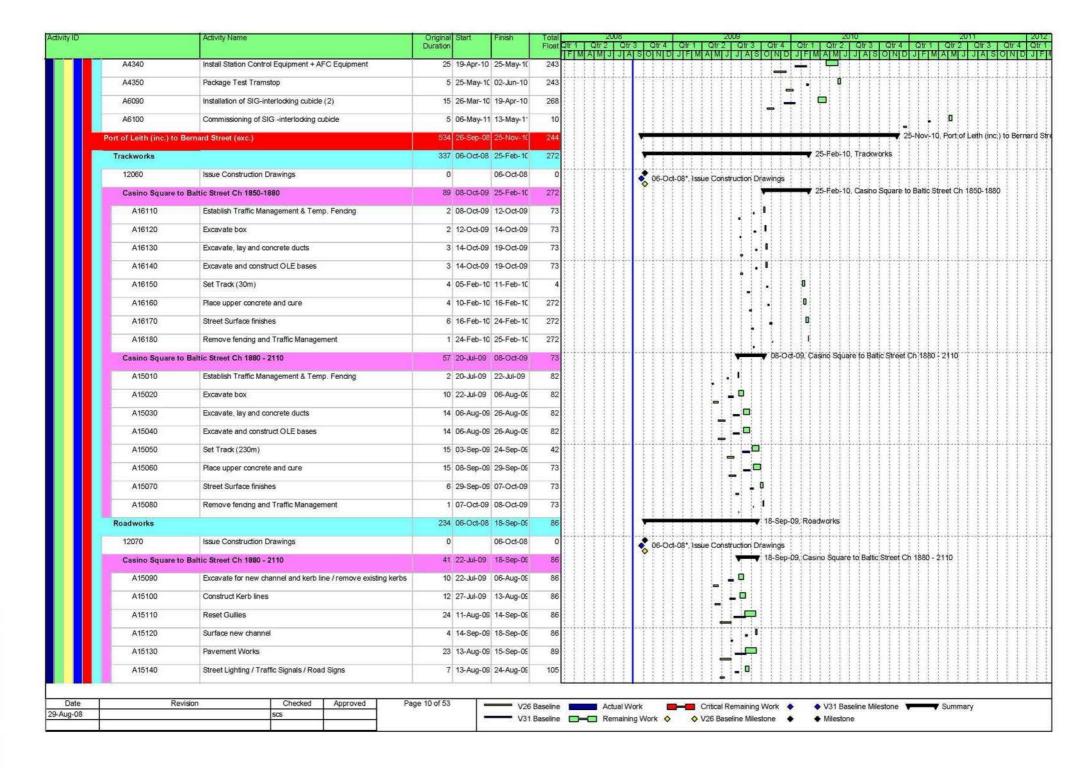


	Activity Name	Original St Duration	tart Fini	ISH	Float	Qtr 1 Qtr 2 Qtr F M A M J J A				Qtr3 C						tr 1 C		Qtr 3	-
A15860	Place upper concrete and cure	5 12	2-Jun-09 19-	Jun-09	258	I MAM S SA	SOM	DI JII W	- U	JASO	NO U	- WIA	IMI S S	A S O	NDJ	I IMIA	IVI J	3 4 3	OIN
A15870	Street Surface finishes	3 19	9-Jun-09 24-	Jun-09	258				. 1										
A15880	Remove fending and Traffic Management	1 24	4-Jun-09 25-	Jun-09	258	++++++			-			111		+++	+++		hhi	++-	1-1-
Ch 475-600		42 16	5-Mar-09 15-	May-09	54				15	-May-09, Ch	475-600								
A15730	Establish Traffic Management & Temp. Fending	2 16	6-Mar-09 18-	Mar-09	53			. 1											
A15740	Excavate box	5 18	3-Mar-09 25-	Mar-09	53			. 0											
A15750	Excavate, lay and concrete ducts	8 25	5-Mar-09 06-	Apr-09	53			711	1										
A15760	Excavate and construct OLE bases		5-Mar-09 06-		53	 - - - - - - -			1					444	444			44.	
A15770	Set Track (125m)	100,000	5-Apr-09 30-	2010/03/02	46			-											П
A15780	Place upper concrete and cure		1-Apr-09 06-	3	54			-											
A15790	Street Surface finishes		3-May-09 14-	W	54			-	0										
A15800			124,		54			-											
704,000,00	Remove fending and Traffic Management	1 7	4-May-09 15-		33000			.1.1.1.	16 Mar.	09 Ch 600-	700				44.				ļ.,
Ch 600-700			4-Nov-08 16-		53				IO-William										
A15650	Establish Traffic Management & Temp. Fending		4-Nov-08 26-		81														
A15660	Excavate box	4 26	5-Nov-08 03-	Dec-08	81		.0												
A15670	Excavate, lay and concrete ducts	6 03	3-Dec-08 11-	Dec-08	81		- 1	1											П
A15680	Excavate and construct OLE bases	6 03	3-Dec-08 11-	Dec-08	81		-1	1											П
A15690	Set Track (100m)	8 18	3-Feb-09 02-	Mar-09	42			_ 0				1-1-1			7777				1-1-
A15700	Place upper concrete and cure	8 23	3-Feb-09 05-	Mar-09	53			_ 0											
A15710	Street Surface finishes	6 05	5-Mar-09 13-	Mar-09	53			_ 0											
A15720	Remove fending and Traffic Management	1 13	3-Mar-09 16-	Mar-09	53			. 1											
Ch 700-856		52 03	3-Jun-10 17-	Aug-10	72								-	▼ 17-Au	g-10, Ch	700-850	0		
A15570	Establish Traffic Management & Temp. Fending	2 03	3-Jun-10 07-	Jun-10	90	++++++		111			+++		8	4++	++1			++-	11
A15580	Excavate box	6 07	7-Jun-10 15-	Jun-10	90								0						
A15590	Excavate, lay and concrete ducts	9 15	5-Jun-10 28-	Jun-10	90								0						
A15600	Excavate and construct OLE bases	9 15	5-Jun-10 28-	Jun-10	90						1		0						П
A15610	Set Track (150m)	10 19	9-Jul-10 03-	Aug-10	4						•								
A15620	Place upper concrete and cure	-022 00	2-Jul-10 06-	No. Co.	72												1-1-1		
A15630	Street Surface finishes		6-Aug-10 16-	8	72							-							
A15640	Remove fending and Traffic Management	500 miles	6-Aug-10 17-	7.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	72							=							
	pad Tramstop		2-Jan-09 18-	173	194											▼ 18-F	eb-11.	Newhav	/en R
11990	Issue Construction Drawings	0		Jan-09	0														
(Markets)		(2)	-000	54555000	574			◆ 22-J	an-09*, I	ssue Constru	ction Draw	rings		إيلا				.	ļ
8	Civil and Building Works		9-Jul-10 19-	- JG-10	105								7 7						
98	Order REC Supply	0 23	3-Sep-10		289							0	•	or	der REC	Supply			Ш
1	Revision Checked Approved	Page 6 of 53	The second			The state of the s				100 100 N	7.50 (#22)	3,000			20077.70		Mat Administra	941	
+	Revision Checked Approved	rage o or os		─ V26 B		Actual W Remainir		100		emaining Wo			31 Baseline lestone	e Mileston	ne V	V S	ummar	У	



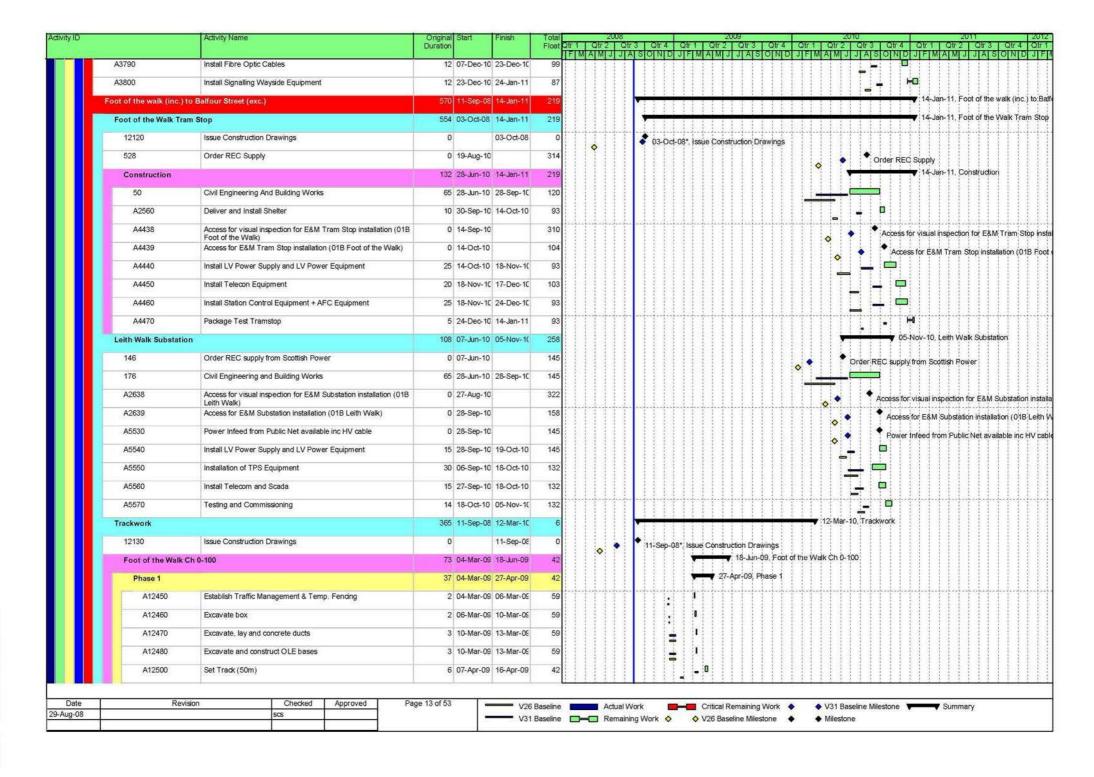
	Activity Name	Original Duration	Start	Finish		Total 2008 2009 2010 2010 2011 Total Otr 1 Otr 2 Otr 3 Otr 4 Otr 1 Otr 2 Otr 3
Rennies Isle to	Casino Square Ch 1410-1980	74	15-Dec-09	3 13-Apr-10	18	183 FM AM J J A SON D J FM
A15390	Excavate for new channel and kerb line / remove existing kerbs	19	15-Dec-09	25-Jan-10	18	183
A15400	Construct Kerb lines	24	18-Dec-09	04-Feb-10	18	183 183
A15410	Reset Guilles	9900		24-Mar-10		190
A15420	Surface new channel			01-Apr-10		190 0
7674060075401	William Control of Con					
A15430	Pavement Works			13-Apr-10		183
A15440	Street Lighting / Traffic Signals / Road Signs			15-Feb-10		223
Trackwork		453	20-Apr-09	23-Feb-11	2	28 ▼ 23-Feb±11, Trackwork
12020	Issue Construction Drawings	0		20-Apr-09		0 • • 20-Apr-09", issue Construction Drawings
Ocean Termina	I Ch 850-1080	131	08-Oct-09	27-Apr-10	14	149 ▼ 27-Apr-10, Ocean Terminal Ch 850-1080
A15310	Establish Traffic Management & Temp, Fencing	2	08-Oct-09	12-Oct-09	7	77
A15320	Excavate box	12	12-Oct-09	28-Oct-09	7	77
A15330	Excavate, lay and concrete ducts	17	28-Oct-09	20-Nov-09	7	77
A15340	Excavate and construct OLE bases	17	28-Oct-09	20-Nov-09	7	77
A15350	Set Track (280m)	28	03-Mar-10	13-Apr-10		0
A15360	Place upper concrete and cure	28	08-Mar-10	16-Apr-10	14	149
A15370	Street Surface finishes	6	16-Apr-10	26-Apr-10	14	149
A15380	Remove fending and Traffic Management			27-Apr-10		149 ·
	to Rennies Isle Ch 1080-1410			23-Feb-11		28 23-Feb-11, Ocean Terr
A15230	17			12-Oct-10		59
CONTRACTOR	Establish Traffic Management & Temp. Fencing	250		S 1.07 150 550 570 770 1		
A15240	Excavate box			01-Nov-10		
A15250	Excavate, lay and concrete ducts			30-Nov-10		66
A15260	Excavate and construct OLE bases	20	01-Nov-10	30-Nov-10	6	66
A15270	Set Track (330m)	21	11-Jan-11	09-Feb-11	2	28
A15280	Place upper concrete and cure	21	14-Jan-11	14-Feb-11	2	28
A15290	Street Surface finishes	6	14-Feb-11	1 22-Feb-11	2	28 0
A15300	Remove fending and Traffic Management	1	22-Feb-11	23-Feb-11	2	28
Rennies Isle to	Casino Square Ch 1410-1880	201	11-Dec-09	08-Oct-10	5	59 ▼ 08-Oct-10, Remnies Iste to Casino Sq
A15150	Establish Traffic Management & Temp. Fencing	2	11-Dec-09	15-Dec-09	13	139 L
A15160	Excavate box	19	15-Dec-09	25-Jan-10	13	139
A15170	Excavate, lay and concrete ducts	28	25-Jan-10	04-Mar-10	13	139
A15180	Excavate and construct OLE bases			04-Mar-10		139
A15190	Set Track (470m)			24-Sep-10		0
			-			
A15200	Place upper concrete and cure	29	19-Aug-10	29-Sep-10	5	59
	Obedied Account	000 0 of 50	-			
K	evision Checked Approved Posses	age 8 of 53		V26		eline Actual Work Critical Remaining Work ♦ \$\sqrt{13}\$ Baseline Milestone Summary eline Remaining Work \$\sqrt{13}\$ \$\sqrt{12}\$ V26 Baseline Milestone \$\sqrt{13}\$ \$\sqrt{13}\$ Milestone





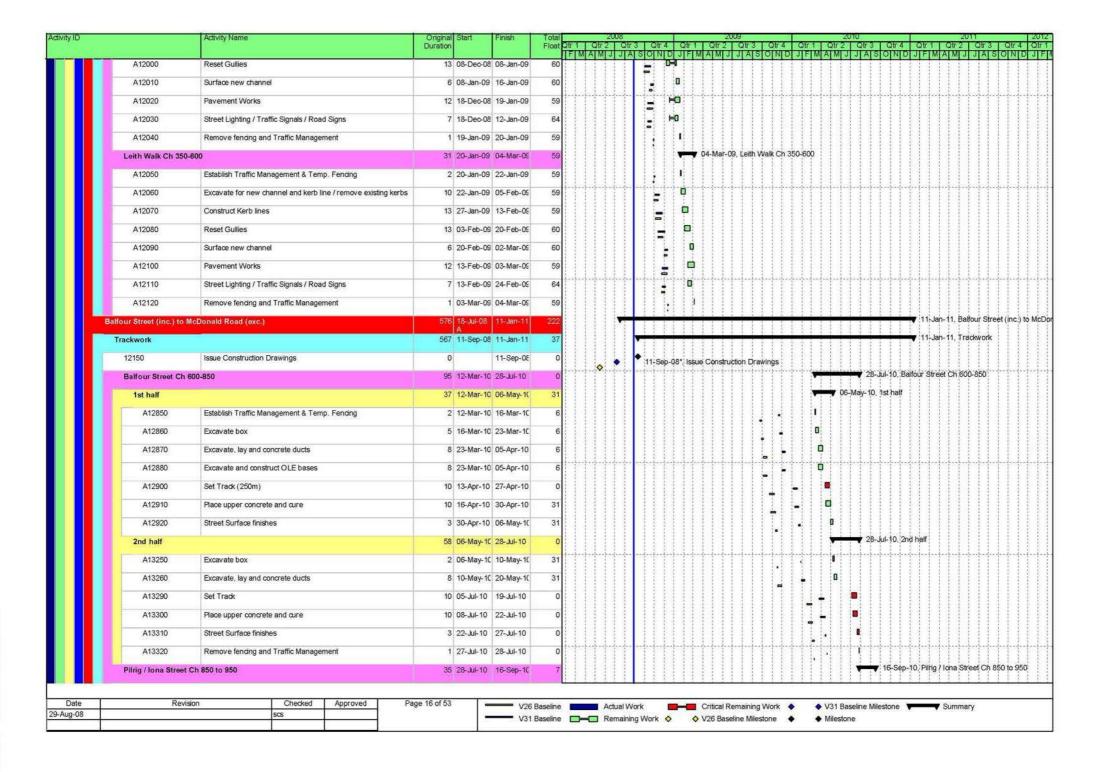






	Activity Name	Original Start Duration	Finish	Tota Floa	2008 2009 2010 2011 tr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3
A12510	Place upper concrete and cure	6 13-Apr-09	21-Apr-09	42	F MAM JUASON DUFMAM JUASON DUFMAM JUASON DUFMAM JUAS
A12520	Street Surface finishes	3 21-Apr-09	24-Apr-09	42	
A13510	Remove fending and Traffic Management	1 24-Apr-09	27-Apr-09	42	
Phase 2	1104/2004/2009/01/2004/49/2014/2011/2004/2005/19/2019/2004/2005/	18 27-Apr-09	22-May-09	42	▼ 22-May-09, Phase 2
A12530	Establish Traffic Management & Temp. Fencing	2 27-Apr-09	1/4	42	
A12540	Excavate box				
		2 29-Apr-09			
A12550	Excavate, lay and concrete ducts	3 01-May-0			
A12560	Excavate and construct OLE bases	3 01-May-0	07-May-09	42	
A12580	Set Track (50m)	4 07-May-0	13-May-09	42	
A12590	Place upper concrete and cure	4 12-May-0	18-May-09	42	
A12600	Street Surface finishes	3 18-May-0	21-May-09	42	
A13500	Remove fending and Traffic Management	1 21-May-0	22-May-09	42	
Phase 3		18 22-May-0	18-Jun-09	42	▼▼ 18-Jun-09, Phase 3
A12610	Establish Traffic Management & Temp. Fencing	2 22-May-0	27-May-09	42	
A12620	Excavate box	2 27-May-0	29-May-09	42	
A12630	Excavate, lay and concrete ducts	3 29-May-0	03-Jun-09	42	····
A12640	Excavate and construct OLE bases	3 29-May-0		42	
A12660	Set Track (50m)	4 03-Jun-09			
	171 - 161	4 08-Jun-09			
A12670	Place upper concrete and cure	100/10000000000000000000000000000000000	0.0000000000000000000000000000000000000	42	
A12680	Street Surface finishes	3 12-Jun-09	T. COLUMNIC STREET	42	
A13490	Remove fending and Traffic Management	1 17-Jun-09	18-Jun-09	42	
Leith Walk Ch 1	00-350	61 18-Jun-09	14-Sep-09	57	▼ 14-Sep-09, Leith Welk Ch 100-350
1st half		31 18-Jun-09	31-Jul-09	42	y 31-Jul-09; 1st haif
A12690	Establish Traffic Management & Temp. Fencing	2 18-Jun-09	22-Jun-09	42	
A12700	Excavate box	5 22-Jun-09	29-Jun-09	42	
A12710	Excavate, lay and concrete ducts	8 29-Jun-09	09-Jul-09	42	
A12720	Excavate and construct OLE bases	8 29-Jun-09	09-Jul-09	42	
A12740	Set Track (250m)	10 09-Jul-09	23-Jul-09	42	
A12750	Place upper concrete and cure	10 14-Jul-09	28-Jul-09	42	T_a
A12760	Street Surface finishes	3 28-Jul-09	Versumanu (Commi	42	
2nd half		30 31-Jul-09		57	14-Sep-09, 2nd half
A13090	Eveauate how	-74			0
22.696249656	Excavate box	5 31-Jul-09	West Marketone		
A13100	Excavate, lay and concrete ducts	8 10-Aug-05			
A13130	Set Track	10 20-Aug-0	03-Sep-09	42	
-	Oliver Account Account	Dogo 14 - £52		W. 171 171	
- K	evision Checked Approved scs	Page 14 of 53	V26	Baseline	Actual Work Critical Remaining Work V31 Baseline Milestone Summary

		Activity Name	Original Duration	Start	Finish	Float	10et Otr 1 Otr 2 Otr 3 Otr 4 Otr 1 Otr 2 Otr 3 Otr 4 Otr 1 Otr 2 Otr 3 Otr 4 Otr 1 Otr 2 Otr 3
	A13140	Place upper concrete and cure	10	25-Aug-09	08-Sep-09	57	57 JASONDJEMAMJJASONDJEMAMJJAS
	A13150	Street Surface finishes	3	08-Sep-09	11-Sep-09	57	57
	A13160	Remove fending and Traffic Management	1	11-Sep-09	14-Sep-09	57	57
L	Leith Walk Ch 350	0-600	118	14-Sep-09	12-Mar-10	6	6 12-Mar-10, Leith Walk Ch 350-600
	1st half		88	14-Sep-09	29-Jan-10	0	0 29-Jan-10, 1st half:
	A12770	Establish Traffic Management & Temp. Fending			16-Sep-09	57	57
	A12780	Excavate box			23-Sep-09		57 . 0
	A12790	Excavate, lay and concrete ducts			05-Oct-09		57
	A12800	Excavate and construct OLE bases	1000		05-Oct-09	3372	57
				91,			
	A12820	Set Track (250m)			21-Jan-10		0
	A12830	Place upper concrete and cure	10	12-Jan-10	26-Jan-10	.0	0
	A12840	Street Surface finishes	3	26-Jan-10	29-Jan-10	0	0
	2nd half	i a ai	30	29-Jan-10	12-Mar-10	6	6 ▼ 12-Mar-10, 2nd half
	A13170	Excavate box	5	29-Jan-10	05-Feb-10	0	o
	A13180	Excavate, lay and concrete ducts	8	05-Feb-10	17-Feb-10	0	0
	A13210	Set Track	10	17-Feb-10	03-Mar-10	0	o
	A13220	Place upper concrete and cure	10	22-Feb-10	08-Mar-10	6	6
	A13230	Street Surface finishes	3	08-Mar-10	11-Mar-10	6	6
	A13240	Remove fending and Traffic Management	1	11-Mar-10	12-Mar-10	6	6
۳,	Roadworks	initial desirabilità de la media de la conserva de desarre de la conservación de la conse		1010110100	04-Mar-09	59	59 04-Maj-09, Roadworks
	12140	Issue Construction Drawings	0	CAY/ES/AS/CO	11-Sep-08		
_	Foot of the Walk (21-Nov-08		11-Sep-08* Issue Construction Drawings 21-Nov-08, Foot of the Walk Ch 0-100
,			7507	CONTRACTOR OF THE PARTY	Manager Services		
ı	A12370	Establish Traffic Management & Temp. Fending			13-Oct-08		59
	A12380	Excavate for new channel and kerb line / remove existing kerbs	10	13-Oct-08	27-Oct-08	59	59 🔚 🚨 🕮
	A12390	Construct Kerb lines	13	16-Oct-08	04-Nov-08	59	59
	A12400	Reset Gullies	13	23-Oct-08	11-Nov-08	60	60
	A12410	Surface new channel	6	11-Nov-08	19-Nov-08	60	60 2 0
	A12420	Pavement Works	12	04-Nov-08	20-Nov-08	59	59
	A12430	Street Lighting / Traffic Signals / Road Signs	7	04-Nov-08	13-Nov-08	64	64 0
1	A12440	Remove fending and Traffic Management	1	20-Nov-08	21-Nov-08	59	59
	Leith Walk Ch 350	1-100	31	21-Nov-08	20-Jan-09	59	59 20-Jan-09; Leith Walk Ch 350-100
r	A11970	Establish Traffic Management & Temp. Fending	2	21-Nov-08	25-Nov-08	59	59
II-	A11980	Excavate for new channel and kerb line / remove existing kerbs			10-Dec-08		
	A11990	Construct Kerb lines			18-Dec-08		
	A11990	SALON MAT NOT DIRECT	13	20-1104-00	10-060-00	35	59 🛨 🗖
	Revi	sion Checked Approved Pa	ige 15 of 53	eq.			New Contract
_	Revi	son Checked Approved Pa	ge 10 01 03			Baseline	eline Actual Work Critical Remaining Work Summary Actual Work Summary



	Activity Name	Original Duration	Olan	Finish	Float	Qtr 1	Qtr 2	Qtr	r3 Q1	r 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	1 0	tr 1	Qtr 2	Q
- annual content	4		00 11 40	01.4		FM	AM	JJA	SO	N D J	FMA	MJ	JAS	DINID	JFM	AMJ	JAS	OIN	DJ	FIMA	MJ	IJ
1st half		18	28-Jul-10	24-Aug-10	1	111								111	111		7 2	Aug-	10, 15	Han		
A12930	Establish Traffic Management & Temp. Fencing	2	28-Jul-10	30-Jul-10	C								111			•	1					
A12940	Excavate box	2	30-Jul-10	04-Aug-10	C										1		•					
A12950	Excavate, lay and concrete ducts	3	04-Aug-10	09-Aug-10	C		TT	TŤ			m		TH	TTT			1	m				5
A12960	Excavate and construct OLE bases	3	04-Aug-10	09-Aug-10	C											H	1					
A12980	Set Track (100m)	5	09-Aug-10	16-Aug-10	C												1					
A12990	Place upper concrete and cure	5	12-Aug-10	19-Aug-10	,												8					-
A13000	Street Surface finishes	3	19-Aug-10	24-Aug-10	1										111		1					
2nd half		17	24-Aug-10	16-Sep-10	7		++	++		++-	ttt	1		+++	++-	111	~	16-Se	p-10.	2nd half		-
A13330	Excavate box	2	24-Aug-10	26-Aug-10	1											.	1					
A13340	Excavate, lay and concrete ducts			31-Aug-10																		
A13370	Set Track			07-Sep-10												111						
A13380	Place upper concrete and cure			10-Sep-10												•	0					
A13390	Street Surface finishes	100		15-Sep-10			++	++							++-	11						
A13400	Remove fending and Traffic Management			16-Sep-10																		
MILES WINDS			and the same and	There were the	20130															11-Jan-	11. Mc	D
	ick Road Ch 950-1250			11-Jan-11	1														11	v-10, 1s		
1st half		7414.		09-Nov-10															03-1401		i ridii	
A13010	Establish Traffic Management & Temp. Fending			20-Sep-10												i i i	1					-
A13020	Excavate box	6	20-Sep-10	28-Sep-10	7												0					
A13030	Excavate, lay and concrete ducts	9	28-Sep-10	11-Oct-10	7												I					
A13040	Excavate and construct OLE bases	9	28-Sep-10	11-Oct-10	7												1	•				
A13060	Set Track (300m)	12	14-Oct-10	01-Nov-10	4												•					
A13070	Place upper concrete and cure	12	19-Oct-10	04-Nov-10	37											10	-					-
A13080	Street Surface finishes	3	04-Nov-10	09-Nov-10	37	iiiii	TT			11	TTT		111	111	TH	TÜ	•	0		11		-
2nd half		34	09-Nov-10	11-Jan-11	37													-	-	11-Jan-	11, 2nd	di
A13410	Excavate box	6	09-Nov-10	17-Nov-10	37													0				
A13420	Excavate, lay and concrete ducts	9	17-Nov-10	01-Dec-10	37												-	ø				
A13450	Set Track	12	01-Dec-10	17-Dec-10	37												1	0	3			
A13460	Place upper concrete and cure	12	06-Dec-10	22-Dec-10	37			ΗĖ				4-4-			+++		-	ı	•			
A13470	Street Surface finishes	3	22-Dec-10	10-Jan-11	37												Τ.		H			
A13480	Remove fending and Traffic Management	1	10-Jan-11	11-Jan-11	37														1			
th Walk Railway Bri			MATERIAL STATE OF THE PARTY OF	12-Mar-10												12-Mar-10), Leith	Walk R	allway	Bridge	(S1B)	
26	Existing Structure	0		12-Mar-10																		-
adworks				23-Jul-09	160			-1-1-					23-Jul	-09, Road	lworks	12-Mar-10	, Existin	g struc	dure		ļ.ļ.,	
auwurks		211	11-Sep-06	23-30-09	160			11		1.1	111	111			111	111	111			11	11	1

		Activity Name	Origina Duration	Start	Finish	Float	Qtr 1 Q				Otr 2 Qtr 3 Qtr 4 Qtr 1		4 Qtr 1 Qtr 2 Qtr 3
	12160	Issue Construction Drawings	0		11-Sep-08	0			COMMENT OF THE PERSON NAMED IN CONTROL OF THE PERSON		onstruction Drawings		
	Balfour Street Ch	600-850	31	04-Mar-0	9 17-Apr-09	160		•			17-Apr-09, Balfour Street Ch 60	0-850	
	A12130	Establish Traffic Management & Temp. Fending	2	04-Mar-09	9 06-Mar-09	160				1			
	A12140	Excavate for new channel and kerb line / remove existing kerbs	10	06-Mar-09	20-Mar-09	160				0			
П	A12150	Construct Kerb lines	13	11-Mar-09	30-Mar-09	160	iriti	T			rttittitit	HHHHHH	tttttttttt
	A12160	Reset Gullies	13	18-Mar-09	9 06-Apr-09	161				•			
	A12170	Surface new channel	6	06-Apr-09	15-Apr-09	161				0			
	A12180	Pavement Works	12	30-Mar-09	9 16-Apr-09	160			11111	•			
	A12190	Street Lighting / Traffic Signals / Road Signs	7	30-Mar-09	9 08-Apr-09	165				0			
	A12200	Remove fending and Traffic Management	1	16-Apr-09	17-Apr-09	160				T		HHHHHH	ttiittiitit
	Pilrig / Iona Street	Ch 850-950	31	17-Apr-09	03-Jun-09	160				•	03-Jun-09, Pilrig / Iona Stre	et Ch 850-950	
	A12210	Establish Traffic Management & Temp. Fending	2	17-Apr-09	21-Apr-09	160							
	A12220	Excavate for new channel and kerb line / remove existing kerbs	10	21-Apr-09	06-May-09	160					1		
	A12230	Construct Kerb lines	13	24-Apr-09	14-May-09	160							
	A12240	Reset Gullies	13	01-May-0	21-May-09	161	1-1-1-1	11	1-11111			HHHHH	*******
П	A12250	Surface new channel	6	21-May-0	9 01-Jun-09	161				Ī. I	q		
п	A12260	Pavement Works	12	14-May-0	02-Jun-09	160							
П	A12270	Street Lighting / Traffic Signals / Road Signs	7	14-May-0	26-May-09	165				-	0		
П	A12280	Remove fencing and Traffic Management	1	02-Jun-09	03-Jun-09	160				M			
	McDonald / Bruns	wick Road Ch 950-1250	36	03-Jun-09	23-Jul-09	160		T		m	23-Jul-09, McDonald /	Brunswick Road Ch 950	H1250
П	A12290	Establish Traffic Management & Temp. Fending	2	03-Jun-09	05-Jun-09	160		11					
П	A12300	Excavate for new channel and kerb line / remove existing kerbs	12	05-Jun-09	23-Jun-09	160				=			
п	A12310	Construct Kerb lines	15	10-Jun-09	01-Jul-09	160				=			
П	A12320	Reset Gullies	15	17-Jun-09	08-Jul-09	161				=			
	A12330	Surface new channel	9	08-Jul-09	21-Jul-09	161		T		П			
	A12340	Pavement Works	15	01-Jul-09	22-Jul-09	160							
	A12350	Street Lighting / Traffic Signals / Road Signs	7	01-Jul-09	10-Jul-09	168					. 0		
	A12360	Remove fending and Traffic Management	1	22-Jul-09	23-Jul-09	160					. 14		
_	Balfour Street Tram	Stop	529	18-Jul-08 A	21-Oct-10	269		1					1-Oct-10, Balfour Street Tram S
Г	12170	Issue Construction Drawings	0		18-Jul-08 A			•	18-Jul-08 A, Issue C	onstruc	ction Drawings		
	538	Order REC Supply	C	09-Jun-10		364	ľ				\ \	Order REC S	ipply
п	Construction	ali:	153	16-Mar-10	21-Oct-10	269							1-Oct-10, Construction
	590	Civil Engineering And Building Works	65	16-Mar-10	18-Jun-10	191							
	A2600	Deliver and Install Shelter	10	21-Jul-10	05-Aug-10	143						- 0	
	Revi		ge 18 of 53	7 -	V26	Baseline		Actua	l Work	Criti	tical Remaining Work •	V31 Baseline Mileston	e V Summary
		scs		-					The state of the s		STATE OF THE PROPERTY OF THE P	Milestone	76 AFFA (15 CO) 10 TO (15 CO)

