





EDINBURGH TRAM NETWORK INFRACO CONTRACT

PERIOD REPORT No 8 TO 8 NOVEMBER 2008







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1 EXECUTIVE SUMMARY

27,000 hours were worked in the period, of which 10,000 were site hours, without any reportable accidents or incidents.

In the absence of a formal revision to the Contract programme, works are being planned and managed using the 12 week look-ahead programme. Significant progress has been made towards agreement of the impact of slippage of the design programme (V26-V31) at contract commencement. The basis for progress measurement in this report is the programme showing the agreed mitigated impact of the initial design slippage as 38 days (7 weeks 3 days) on the end date. The impact of issues arising following contract commencement are now being analysed with the aim of resolving all issues as soon as possible and progressing to development of proposals for recovering time.

A significant number of civil design packages are still not issued IFC, particularly those required for trackwork in sections 1 and 7 – section 4.1.1.2 of this report details the issues to be resolved.

System engineering and procurement is in progress, with initial trackwork material deliveries due in the period. The process of incorporating Consortium proposals into the civil designs, by means of Development Workshops with tie, has commenced but will be accelerated to produce approved designs to support procurement and construction.

Tram design and resolution of outstanding requirements is in progress, but resolution of communication system requirements is necessary. Detailed feedback from inspection of the mock-up has been actioned, to support a final approval inspection in the period.

Construction works are in progress in sections 1B, 2A, 5A, 5B, 5C and 7, but are all impacted by external issues which require resolution through the change process. In Leith Walk, un-diverted utilities in the first work site are severely hampering progress. On Edinburgh Park viaduct, significant changes to foundation works are required due to unsuitable ground conditions. BSC have progressed temporary works in advance of agreeing the necessary change to utilise available limited rail possessions, but look to getting the costs agreed as soon as possible.

The overall volume of changes, and in some cases requirement for design work to produce change estimates, is overloading available change management resources and introducing severe delay. Disagreement over liability for change, for example between Base Date information and IFC drawings when produced, is exacerbating the delays in agreement of changes.







2 HSQE MANAGEMENT

2.1 Health & Safety

2.1.1 Safety Management, including CDM

Various training awareness seminars have taken place over period 7/8 including;

- Detection equipment for on or near network rail property
- Network Rail safety bus deployed on site on the 27th of October to inform site operatives of the importance of PPE.
- Use of vibration monitoring equipment to record personnel levels of dose and raise awareness of the effects of vibration.

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 7/8 till the 24th October 2008. There have been no accidents between the end of period 7 and up to 24th October 2008.

No Near Misses reported in the period.

No reportable incidents in the period.

AFR for the first seven periods is 0.00.

The total number of hours worked in period 7 was 27,083.

Non Site Hours = 16,885

Site Hours = 10,198

Breakdown of Site Hours

Parsons Brinckerhoff 750 BSC & Contractors 9,448

2.1.3 Inspections

An assessment audit was carried out on Graham's Construction local operations on the 28th October with Robert Bell of **tie**, and to the Head office in Ireland on 4th November.

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

1 No NCR raised by **tie** in the period for Edinburgh Park, in relation to securing of site accesses on the 24th October.

2.2.3 Audits

Internal audit carried out 16th & 17th September on Network Rail systems and procedures applicable to the contract: no NCR's were identified. A follow-up meeting on 4th November has identified areas where procedures can be simplified/improved- this will be implemented in the next period.

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 has been resubmitted to **tie** for approval.

2.3.2 Issues

There was 1no: Environmental Event reported to **tie** in w/c the 20th October where Japanese Knotweed at the Viking Building was incorrectly cut an put in a mixed waste skip, requiring the entire skip to be disposed of as controlled waste.

2.4 Management System / Deliverables

2.4.1 Deliverables

Inspection & Test Plans

ITP's are being developed as required for scheduled work activities. A disagreement between **tie** and BSC exists regarding the scope of involvement of SDS in quality supervision. Resolution of open issues and achievement of approved ITP's is an urgent priority for BSC's new Quality Manager.







Project Management Plan

Review and update in progress, for issue in the next period

Archaeological & Heritage Mitigation Plan

Plan reviewed by CEC. Meeting took place at Leith on w/c 29th September to agree inclusion on standing structures, and resubmitted to **tie** ion week commencing the 13th October.

Construction Phase Project Environmental Management Plan

Plan resubmitted to tie on week commencing the 6th October for approval.

2.5 KPI's

KPI spreadsheet for Period 7 was submitted to **tie** on 14th October along with associated notes; a further copy is attached.







3 PROGRAMME

3.1 Contract Programme Status

Agreement in principle has been reached between tie and BSC on the mitigated time impact of the incorporation of the revised design programme, V31, at the date of contract commencement (14/5/08). This will be formalised when verification of consequential costs is completed and agreed. The resulting programme will be reissued as a revised Contract Programme, showing a 7 week 3 days slippage to the final Sectional Completion date compared with the original Contract Programme. An agreed programme for evaluation of impact of issues that have arisen since 14/5/08 is in progress.

The programme in the appendix to this report is the agreed V31 impacted programme. Progress achieved up to 24 October 2008 has then been recorded against the above baseline including inputting the latest IFC dates received from SDS (V37).

We have recently received a revised MUDFA programme. We are still considering how this new information can be appropriately incorporated into the Contract Programme. Therefore where MUDFA activities were shown as being completed on the Contract Programme they are now defaulting to 24 October 2008.

The result is the following changes to Section Completion Dates:

	24 October 2008 Update	26 September 2008	V31 Mitigated Impact
Α	20 August 2010	22 July 2010	01 June 2010
В	02 December 2010	30 September 2010	01 July 2010
C	25 August 2011	07 July 2011	10 March 2011
D	21 February 2012	03 January 2011	06 September 2011

The above slippage is a direct consequence of incorporating revision V37 of the design programme into the contract programme and is brought about by significant changes to the IFC dates for the road and track works to the various sections of the works.

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 08 February 2012.

Note – the links between the third party 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. Progress against this programme is reported in section 4.2.2 of this report. Further detail has been issued in the form of the Look-Ahead section Nov 08 – Jan 09 from the Construction Programme to provide a working programme of the activities to be undertaken in the next 3 months.

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. Following an exchange of correspondence, the time impact has been agreed as 38 business days, equivalent t 7 weeks and 3 days.

The combined effect of post V31 design programme slippages, late site possession due to the presence of MUDFA, the transfer of MUDFA scope to INFRACO, dealing with abandoned services, notified variation and alignments issues are currently being considered in a sequential manner by BSC and tie.

3.4 Tramco Programme Status

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

3.5 Critical Impact Notices

The following present potential risks to the programme, a review of items identified here as Critical Impact and other issues of equivalent significance identified in correspondence is ongoing, with view to producing a more comprehensive listing in future:

CIN001 - Completion of MUDFA works - ongoing

MUDFA Programme received – Access Dates for Work Areas are being assessed and included in the development of the Construction Programme.

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. V37 has now been issued.

CIN003 - Track/Roads Alignment Issues - update

Works in Leith Walk are now in progress, but ongoing MUDFA Works will continue to 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. Works in Leith Walk are currently being affected by further service/utility works that need to be carried out for the design to be achieved.

CIN005 - Network Rail Form C Implications - ongoing

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







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

IFC design production is shown in appendix 10.9.

4.1.1.2 Approvals & Consents

General

Prior Approvals. Only 4 left to submit.

SDS continues to receive design changes from CEC during the formal consultation stage of the prior approvals, as listed below. These will, in many cases impact on the IFC dates and will require change instructions to be issued to BSC for the design to be amended.

In certain cases, the timeframe for applications has been extended to allow for revised designs to be submitted and also allow the Council to deal with representations which have been made on planning applications. This is not within the control of BSC.

Drainage Consents. SDS, BSC and **tie** is continuing to work closely with Scottish Water to progress the outstanding drainage consents.

Technical Approvals (Roads). Remaining design issues are being progressed at weekly Technical meetings with CEC. Prioritisation programme agreed with CEC meaning that the 6 Consents on Section 3 scheduled for approval on 31/10/08 are on hold. Number of Closeout reports for Roads Design being progressed by CEC.

Technical Approvals (Structures). Only 1 submission remains outstanding (Balgreen Road - submission due on 21.11.08). All others are either approved or with CEC for approval.

Section 1

Outstanding - Planning

Two Ocean Terminal Batches (Tramstop and Bypass Road) on hold.
 Both have yet to be submitted due to delays in finalising the Forth Ports agreement. Forth Ports inputs to surface finishes has not been







forthcoming. BSC/SDS proceeding with Informal Consultation without these inputs.

- New batch: 1/04a Victoria Dock Entrance Bridge has been submitted to CEC Planning to meet IFC deadline.
- Revisions to 1/17 Shandwick Place being made following Change.
 Submission due w/c/ 12 November.
- Three Listed Building Consents remain outstanding. CEC awaiting response from Historic Scotland.

Outstanding - Technical

 1A Tower Place Bridge with CEC, 1A4 and 1C2, Roads with CEC, 1A3 due to be submitted

Subsection 1A1

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

Roads, St Lighting, Landscaping, Drainage 1A1 IFC delayed due to TAA comments. Letter sent to BSC 29 August 2008. This delay also affects IFCs for Port of Leith TS, Bernard St TS, Foot of the Walk TS, 1A2 roads. Approval and comments received in SDS office 19 September 2008. Approx.40% complete.

Tram Stop - Bernard Street (Ch 102+240)

Prior Approval received. As 1.1, Technical approval and comments received on 19 September 2008. SDS in process of responding to comments and updating drawings in anticipation of submitting IFC.

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

As above.

Subsection 1A2

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

Roads, Street Lighting, Landscaping, and Drainage 1A2 IFC delayed due to TAA comments. Letter sent to BSC 29 August 2008. This delay also affects IFCs for Port of Leith TS, Bernard St TS, Foot of the Walk TS, 1A2 roads. Approval and comments received in SDS office 19 September 2008. Approx.40% complete.

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

Prior Approval received.







Subsection 1A3

Forth Ports - Still not final agreement between CEC and Forth Ports on the proposed bypass road (Road 8). Instruction from tie does not contain required information related to finishes at Ocean Terminal. This may continue to delay Prior Approval, technical approval and IFC until Instruction is received on the finishes.

Subsection 1A4

Roads, Track, Street Lightning and Landscaping – Subsection 1A4 – Newhaven to Ocean Terminal

Objection to the Planning and Prior Approvals in the west of the site (Batches 1/01a, b, c) have been registered by an impacted Third 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. BSC/SDS have 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. CEC requested delay to providing response to Planning Batches in this area.

Drainage - Subsection 1A4 Newhaven to Ocean Terminal

As above.

1A4 delayed due to redesign. Delay due to the CEC requirement to take account of a full access junction for the TAA.

Tram Stop – Newhaven (Ch 100+080)

Objection to the Planning and Prior Approvals in the west of the site (Batches 1/01a) have been registered by an impacted Third 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 Forth Ports agreement, as instructed, and the negotiation with the 3rd party is outwith the scope of SDS. CEC requested delay to providing response to this Prior Approval Batch (1/01a).

Delayed due to roads 1A4 redesign. Delay due to the CEC requirement to take account of a full access junction for the TAA.

Subsection 1B

Roads, Track, Drainage, Street Lighting & Landscaping - Subsection 1B







IFC Issued. BSC/SDS 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 1C1

Roads, Track, Street Lightning and Landscaping – Subsection 1C1 – London Road

SDS currently responding to CEC comments outstanding from TAA approval in anticipation of IFC issue. BSC/SDS 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 1C2

Roads, Track, Street Lighting and Landscaping – Subsection 1C2 – London Road to Picardy Place

TAA submittal delayed with CEC request for additional information.

Drainage - Subsection 1C

TAA submittal on 14 October 2008, which was delayed with CEC request for additional information.

Tram Stop - Picardy Place (Ch120+600)

TAA submittal delayed with CEC request for additional information.

Subsection 1C3

Roads, Track, Street Lighting and Landscaping – Subsection 1C3 – York Place

As above

Tram Stop - Princes Street (Ch121+950)

Tramstops in section 1C3 are delayed due to the non receipt of RSA exceptions report and 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. Approximately 85% complete.

Tram Stop – St Andrews Square (Ch121+150)

Tramstop delayed due to the non receipt of RSA exceptions report and volume of comments. Letter sent 27 August 2008.







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. Approximately 85% complete.

Subsection 1D

Roads, Track, Drainage, Street Lighting and 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. SDS have submitted the RSA and the modelling has not been an issue for previous approvals. SDS awaits CEC TAA approval and any comments.

Haymarket Junction Roads - SDS have submitted 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 SDS in accordance with the design submittal.

Haymarket Taxi Stand (Section 1D) - 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 Street Lighting and relocation of cabinets. CEC response to comments is still outstanding. The modelling and RSA points are from CEC. SDS have since submitted the RSA and the modelling has not been an issue for previous approvals. BSC 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 awaits CEC TAA approval and any comments.

On 14 August 2008, CEC provided a letter to SDS containing non-specific comments regarding the planning application submitted to CEC for Prior Approval on 25 April 2008. SDS provided requested information to CEC for







their internal meeting on 22 August 2008. Meeting held on 25 September 2008 which outlined SDS' existing proposal to be retained.

Section 2

Outstanding - Planning

Potential for 2/01 Haymarket to be resubmitted for Prior Approval pending outcome of 1D Roads redesign.

Outstanding - Technical:

Closeout report to be completed following comments and Design Assurance Panel on 21 November.

Section 5

Outstanding - Planning:

5/06 Murrayfield Stadium Tramstop is pending consideration but on hold, 5/07a – Murrayfield Accommodation Works (Full Planning Permission), 5/30 - Tram Stop Gogarburn. RBS concept design now with **tie**.

Outstanding - Technical:

Close out reports with CEC on Roads 5B and 5C.Approvals expected by mid November.

Balgreen Road Network Rail Access Bridge to be submitted to CEC and Network Rail on 21 November 2008.

Subsection 5A

Roads, Track, Street Lighting and Landscaping - Subsection 5A

5A Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments. Partial submission made only. Partial submission refers to the Murrayfield Tramstop which is on hold.

Drainage - Subsection 5A

As above

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

IFC Issued - Sewer Clash no longer an issue - Change Request is withdrawn

Subsection 5B







Roads, Track, Drainage, Street Lighting and Landscaping - Subsection 5B

Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments initially, followed by the volume of comments. There is a follow on delay that has arisen from the previous sets of comments received. These are approximately 75% complete.

Subsection 5C

Roads, Track, Drainage, Street Lighting and Landscaping - Subsection 5C

5C Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments. There is further delay that has arisen from the previous sets of comments received. These are now approximately 70% complete.

Tram stop – Gogarbum (Ch 531+860)

On hold as instructed by tie awaiting RBS concept design

Section 6

Outstanding - Planning:

Warrants:

6/21a Depot Building Warrant Stage A (foundations and steelworks) has been approved. Additional information for remaining elements of Warrant with CEC for approval.

Outstanding - Technical:

Following SDS issue of supplementary information, the following 2 technical approvals are currently under consideration by CEC:

Roads and 6 Drainage

Subsection 6

Roads, Street Lighting & Landscaping – Subsection 6 – Depot, Drainage – Subsection 6 – Depot, Depot Earthworks, Depot Internal Retaining Walls, Depot Ductwork – External Services, Depot General Layout, Depot Building Foundations, Depot Main Building, Ground Floor Slab and Pits, Depot Building Steel Superstructure, Track – Subsection 6 – Depot, Depot Halt, OLE in Depot, Substation – Gogar Depot – SS01

Section 7

Outstanding - Planning:







Remaining planning approval with CEC is 7/29 Airport Tramstop.

Outstanding - Technical:

technical approvals are currently pending consideration as follows:

7A Drainage, 7A Roads

Subsection 7A

Roads, Track, Drainage, Street Lighting and Landscaping

TAA comments received from CEC. SDS are currently compiling response.

Tram Stop – Edinburgh Airport (Ch 712+560)

BAA - SDS, TEL, Transdev, BSC, tie and BAA have agreed a Way Forward in Principal in order to progress the design and approvals at the Airport. SDS have issued the Prior Approval. BSC also await BAA's confirmation of the design for the covered walkway over the Kiosk. BAA still to confirm approval of concourse and kiosk.

Relocation of Burnside Road -

BSC await further instruction with regard to this change.

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)

Delay of Prior Approval Batch 7/29 will delay IFC

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

IFC delayed due to Change Order from tie for BSC to design road and pedestrian links to Tram Stop. Design is ongoing.

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. This document is being used to define the agenda for a joint tie/BSC design issues resolution meeting, to achieve closeout.







4.1.2 E&M SYSTEMS DESIGN

4.1.2.1 EMC

Test procedure for NR track in Nottingham is handed over and test still planned to take place in October. A SWCP workshop is planned on 27.10.2008 to inform the stakeholders about E&M measures.

4.1.2.2 Overhead Line Equipment

Design

Current progress includes preparation of pole design, table of foundations, anchor bolt configuration all in support of procurement of long lead time items to mitigate further delays. A proposed reduced OLE sectionalizing of the depot and mainline is currently being discussed with **tie** and interested parties.

Approvals and Consents

Principle of revised tensioning arrangements has been accepted by **tie**. Variances of drafted OLE design from planning approval submissions identified.

Proposed combined OLE/lighting pole designs submitted being reviewed internally by BSC.

To start procurement process the E&M design for OHLE need approvals before end of 2008.

4.1.2.3 Traction Power Supplies

Design

Design is further progressing. First design submissions, like "Principle Overall System Description" and "Control & Protection Concept" near completion. One main focus of TPS design here is currently on final specification of long lead time items (rectifier transformer, DC switchgear, medium voltage (11kV) switchgear). All this will in principle be described in above mentioned documents.

Approvals and Consents

No specific items identified at this moment.

4.1.2.4 Traffic Light Control

Design

Detailed design in preparation.

Approvals and consents

No current issues

4.1.2.6 Trackwork







Design

Preliminary Track Design Report has been presented to SDS and is presently under review by SDS for first comments.

Verification of Alignment Drawings has been completed. The alignment contains discrepancies between the MX data files and the alignment drawings regarding cant, speed profiles and alignment differences in position of tangent points for which 19 Technical Queries have been raised with SDS. 11 Have been closed, 8 are still open, some of these are fundamental for the progress of the design.

The basis of design document as first part of the Basic design phase is in internal review.

Interfaces have been defined and resolution steps have been proposed. To be discussed in interface meetings.

An engineering document list was issued identifying the anticipated engineering documents for all Track design phases.

Rail wheel interface study assigned

Issues and Concerns

Mismatches between alignment drawings and MX data files being resolved by SDS.

Alignment is not fixed yet, SDS is still working on several sections based on requests of **tie**, this will constrain the detailed design

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

RFI (ETN(TRW)TIE=T&ABC#055681) September 25th 2008 to track stiffness specification may lead to delay in the supply of the sleepers, not yet closed out by **tie**.

RFI (ETN (TRK)TIE&ABC # 050016) August 20th 2008 "Change Trackforms" not yet closed out by tie. Design is ongoing based on contractual basis but

Trackwork specifications document from SDS is presently being revised and contains some changes which may have an impact on the track design process.

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

The originally planned storage area in the depot is not available yet due to ongoing MUDFA delay in handing over the area. The first shipment of rails







and sleepers will take place early November 2008. Solution to this issue needs urgent attention.

4.1.2.7 Depot Workshop Equipment

Design

Detailed design in preparation for wheel lathe and gantry crane.

Approvals and Consents

Under floor Wheel Lathe design submittals handed over in October.

4.1.2.8 Signalling

Design

The preliminary design for the signalling sub-systems is due to be finalized. Formal Submission has been planned by end of October 08. Based on a joint visit with the operator Transdev in Nottingham a detailed understanding of the operational needs in particular for the Supervisory Control Centre could be achieved which will be reflected in the design.

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

To support the approval of the Design a design review with **tie**/ Transdev will be arranged in November 08.

4.1.2.9 Telecoms

Optical Fibre, Radio System and E&M Cubicles

Design

The Optical Fibre Detailed Design and the E&M Cubicle will be completed by 31-Oct-08. The Radio System Detailed Design is ongoing, whereby currently the impact of Notice of Change No. 20 – Bustracker, TPDS & Radio will be investigated. Relevant quotation from the Bustracker supplier has been received and is under review. Radio equipment still based on contract requirements until further instruction.

Approvals and consents

No current issues

Depot PABX, UPS, and PA

Design

Combined Detailed Design to be completed 07/11/08.







4.1.2.10 HV/LV Power Supplies

Approvals and consents

Completion of surveys and assessments is required to determine the extent of consents required by Scottish Power and Siemens.

4.1.3 TRAM DESIGN

As mentioned in Period Report no 7, CAF has as an outstanding issue the definition of the followings systems:

- TPDS & Radio defined, purchased and provided by Siemens
- Bus Tracker defined, purchased and provided by tie/Lothian Buses
 The impact can be seen on items 19 and 20 on CAF Programme attached as
 Appendix 10.4 Item 19 (Interface 1 System Interface Basic Definition) has
 been moved forward in time compared with original programme and item 20
 (Interface 2 System Interface Complete Definition) still has not been
 modified.

The contractual situation requires CAF to install both systems. Nevertheless, the detailed analysis of the functionality of TPDS and Bus Tracker systems gives the possibility of integrating both systems into one only system. After consultation with Siemens and CAF, tie sent a Notice of Change (Number 20) to BSC to make an estimate of the mentioned integration. Acknowledging that the integration will have some benefits for all the parties involved, CAF, at this moment in time, needs a detailed and final definition of any of the two options either the integrated system or the independent systems in order to fulfil its commitments according to the contract.

Another design issue is related with mock-up approval. Two visits have been made on the 29th and 30th of September and on the 14th of October. The general impression is that the mock-up meets **tie** expectations. Fully compliant with British Standards, exterior and interior design and livery have been verbally approved, although the official approval will be issued when the mock-up is officially accepted. CAF is working in order to close the open points already mentioned in order to proceed to transport and deliver the mock-up in Edinburgh. CAF has proposed the 5th of November as the date for the visit to get the approval of the mock-up.

4.1.4 System Assurance

tie led reviews of SDS produced Assurance have commenced. BSC design management staff are attending 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

No comments

4.1.6 Value Engineering

Civil & Building Works

VE status is now reviewed in regular tie/BSC meeting

BSC have challenged the validity of **tie**'s instruction to deliver the VE saving on |Roseburn Viaduct as detailed in Schedule 4. Given that the SRU agreement requires amendment to the design, we have progressed the outline design to the point that a change order to accommodate the SRU requirements could be actioned if issued by **tie**.

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.

E&M Systems

Impact of down rating UPS's as a Value Engineering exercising being considered

4.1.7 Request for Information

4.2.6.1 Civil & Building Works

See Appendix 10.5. RFI Register

4.2.6.2 E&M Systems

Interface management has identified misalignment between offer and SDS design and development and internal workshop has started.







4.2 CIVIL & BUILDING WORKS

4.2.1 Procurement

4.2.1.1 Subcontractors

A subcontract procurement schedule, showing status at 23rd October, is attached as Appendix 10.5.

Section 1A

Section 1A has now been split into three areas, namely Newhaven to Ocean Terminal (1A1), Ocean Terminal to Bernard Street (1A2) and Bernard Street to Foot of the Walk (1A3).

Quotations are expected to be returned by the 10th November 2008, after which an adjudication process will take place with a view to engaging a subcontractor for Section 1A1 by the end of November 2008.

Section 1B

Having concluded our procurement process for Section 1B and requested of approval to subcontract this section of the works to Crummock Ltd, we are responding **tie**'s request for additional information before **tie** give their approval.

Section 1C

The east end of Section 1C will start within the next 6 weeks and we intend to extend Crummock's scope to include these initial areas.

Section 1D

We have received, and are currently reviewing returned tenders from several subcontractors for Section 1D and detailed negotiations with one or other party will commence on 27th October 2008. Section 1D is programmed to start in January 2009.

Section 2A and 5A (Part)

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.

Negotiations are ongoing with Graham's to conclude a subcontract order however they will not start in earnest on site until the beginning of January 2009

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







To secure possessions, Steel Foundations were employed to install temporary sheet piling at Edinburgh Park Bridge. Negotiations with a preferred subcontractor are ongoing.

Expanded Ltd for the A8 Underpass are working at A8 underpass

Enquiries have been sought for other smaller trade contractors, e.g. earthworks, drainage, ducting and concrete works to the track..

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 will progress any area of the depot which is considered to be critical to our progress, at risk pending IFC design, and assuming that access is made available.

A formal request **tie** to subcontract the works to Barr Ltd has been submitted to **tie** and a response is awaited.

Section 7A

Final negotiations with Farrans to conclude a subcontractor order will be completed by 7/11/08. A formal request to subcontract the works to Farrans has been submitted and we are responding to **tie**'s requests for additional information.

4.2.1.2 Materials

Procurement of precast beams, bearing and other major materials are progressing.

4.2.1.3 Long Lead Procurement Management

Fairfield Mabey are manufacturing the steelwork for Water of Leith bridge.

Design issues preventing us issuing an order for the supply of the precast concrete beams to Edinburgh Park have now been resolved and an order is now placed.

4.2.2 Construction

4.2.2.1 Progress on site, to 4th Nov 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 - Traffic management was implemented on Thursday 2nd Oct. Crummock commenced construction activities on Mon 6th Oct, having been delayed for a week by incomplete MUDFA works. A number of services have been exposed which are within the works area and a number of queries have been raised by Crummock regarding utility diversions required to achieve kerb and carriageway construction. These will be forwarded to tie as RFI's but efforts are also being made to identify more efficient ways of resolving utility clashes to reduce delay to the works.

Northbound -

TM established south of Pilrig St. / North footpath stripped back to new kerbline and excavation to formation for kerb and road construction ongoing. Ongoing MUDFA Works at Manderston St. and on Leith Walk North of Pilrig St.

Progress: Planned 90%

Actual 15%

Southbound – Planned start 4 Nov 2008

Leith Walk CH 350 to 600 – Planned start 12 Nov 08

Section 1C McDonald Rd to Princess Street West

Traffic Management scheme has been submitted for approval to allow construction activities to commence on 30th Oct. Leith Walk Ch.0-375 – planned start was 31 Oct 08 – now delayed to17 Nov 08. MUDFA continue to occupy the area.

Section 1D Princess St to Haymarket

A series of planning meetings have taken place. The construction programme is prepared and a Time-Location Chart has been drawn for stakeholder briefings. Next meeting is arranged for 4 Nov 2008. Preparation (not on site) will start for Princes St / Lothian Road and Haymarket Junctions on 24 Nov 08.

Section 2A Haymarket to Roseburn Junction

Haymarket Station Viaduct –Sub Structure Pier bases 2 & 3 have been cast. Wall reinforcement has been fixed and continuity welding will be carried out on the reinforcement on Monday the 27th October. Wall shutters are due to be erected following with the walls scheduled to be cast on Monday 3rd November 2007.

Abutment redesign is with CEC for technical approval and the temporary works design will be complete by 1st Nov.







Progress - Planned 47%

Actual 20%

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 is complete.
Site Clearance to Murrayfield Retaining wall has continued.
Demolition operations have continued at the Simlock building. Viking and NCR building demolition has been completed.

Murrayfield Tramstop Retaining Wall – IFCs expected 27 Oct 08. Roseburn St Viaduct – Construction details to be addressed.

Murrayfield Stadium Underpass – Following assessment of further GI, SDS are proceeding with ground improvement design for Murrayfield Retaining Walls.

Russell Rd Underbridge – Further site investigation has been carried out to allow Temporary works design to progress. Samples have been tested and discussions are ongoing to investigate a soil nailing solution.

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 are complete. Haul road and piling platform to the South abutment completed during the disruptive possession of the 26th Oct.

Progress Planned 11%

Actual 11%

Track work - Site investigation has been completed.

Edinburgh Park Station Bridge – Site Access works been completed. Unforeseen ground conditions resulted in the re-design of Temporary Works. Additional excavation to a suitable formation and the import of structural fills has been necessary. This delayed the Form C submission by 3 weeks.

Additional structural earthworks excavation to piers 5, 6 & North Abutment has been completed and the bases blinded. Temporary works has been completed. Sheet piling to piers 3 and 4 adjacent to the railway completed in possessions.

This work was progressed in advance of instruction from **tie**, to ensure utilisation of available possessions – **tie** confirmation of change still awaited.

Progress Temp Works Planned 100% Actual 100%

Substructure Planned 55% Actual 1%







Section 5C Edinburgh Park Central to Gogarburn

Erection of Edinburgh Park section office and compound is ongoing.

Site clearance/ temporary haul road construction has commenced. Excavation of unsuitable material and installation of a starter layer is ongoing

Gyle Centre Tram Stop Retaining Wall -

These works remain on hold awaiting MUDFA completion. Infraco works were due to start 01 August 2008 (V34) but are delayed dependent on completion of the MUDFA Work.

A8 Underpass – Diversion of existing services is complete for phase 1. Alternative pedestrian diversion has been established. Piling commenced on 15/10/08 and is scheduled for phase 1 completion on 6th November.

Section 6A Depot

BARR are scheduled to take partial possession of the site on Monday 3rd November following scheduled completion of the necessary of MUDFA works. Haul route access ramp to Section 7 has been completed.

Section 7A Gogarburn to Edinburgh Airport

Farran mobilisation is complete. Gogarburn haul route crossing is complete. Stockpiles from archaeological works are being moved to landscape area North West of Gogar Burn. Site clearance and limited topsoil strip and fencing works continue.

Progress - Section 7 works are 2.5 wks behind programme. The late IFC issues, Archaeological Dig, spoil removal, and preparation for the sewer diversion are the main issues in this delay.

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 were expected to complete water main works at the Depot around a month later than originally anticipated 15 October 2008, pressure test failures have prevented the works being completed as of 30/10/08.

The scope of sewer diversion works at Gogarburn Bridge has yet to be resolved. SDS have provided backup information regarding the assumptions made in reaching the current design.

We have advised that should the sewer diversions be required, we are not currently in a position to carry out the works economically or efficiently. We would need to procure a specialist contractor and also recruit suitably qualified supervisory staff. Our proposals is that MUDFA should carry out these works – we are willing to work in coordination with the MUDFA contractor to progress bridge abutments simultaneously where possible.

Submissions







43 Work package plans have now been approved/accepted 31 Work package plans are currently in draft form or within the approvals process

4.3 E&M Systems

4.3.1 OLE (Overhead Line Equipment)

Production / Procurement

Procurement of long lead items under preparation (see above). Examples are poles and wires for tensioning devices.

Issues and Concerns

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.

Other key issue is currently to meet contract timeline. Design process in progress. Partial submission under preparation, rather submission of complete design packages as planned to be able to start procurement of long lead items (see above) immediately after approval.

4.3.2 TPS (Traction Power Supply)

Production / Procurement

Negotiations with suppliers underway, specifically for long lead items.

Issues and Concern

Quick and effective review and approval process required to support procurement on long lead items, to avoid any further time programme risks.

4.3.3 TRW (Trackwork)

Production

Wide range of preparation work and engineering Preparing method statements, risk assessments Delivery of 1000 t of Rails Delivery of 1000 pcs. Sleepers for Ballast Track Delivery of sleepers for 500 m of street track Delivery of extendable trailer for transport of rails and sleepers. Arrival of Road-Railcrane Arrival of several containers of other Plant

4.3.4 DWE (Depot Workshop Equipment)

Production / Procurement

No comments







Issues and Concerns

RFI resolution ongoing

4.3.5 Signalling, SCADA, PIS, PA, Comms

Production /Procurement

Based on the request from TIE to investigate the opportunity to combine the TPDS onboard computer and radio with the Bustracker system onboard of the tram the procurement process for this equipment has been extended. Siemens has received a quotation from the Bustracker supplier INEO Systran which is under review.

Issues and concerns

The impact of TIE notice of change 20 is being assessed (TPDS onboard computer).

SCADA, CIS, PA

Production

Requirements from TPS etc collated for SCADA, preliminary design in progress scheduled for submission by end of October. Site visit carried out at the Nottingham Express Transit Depot on the 01/10/08 to review the operation of the Tram Control Room. Overview given by the Tram Operators.

Issues and concerns

Passenger Information Display customer requirements conflict with regard to the physical size of the units versus the message requirements/format. The Interface Control Form as been updated with the current proposal to meet the message requirements/format.

The mounting of the PID's at the Tramstops is currently under review with BB.

Telecomms

Production

No current issues.

Issues and concerns

The impact of TIE notice of change 20 is being assessed (Radio System). Aspirations for additional on-tram functionality may exceed available bandwidth capacity.

4.3.6 TLC (Traffic Light Control)

Production

Quotes being re-assessed for resubmission based on road junctions detailed in TIE Notice Of Change 16.







Issues and concerns

No current issues.

4.3.7 HV/LV - Supply

Production

Quotes from Scottish Power for Gogar Depot, Ingilston P&R, and Haymarket HV supplies expected 29/10/08.

Issues and concerns

None at present

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

Planning proposals for Section1D have been developed to enable public/stakeholder communication prior to commencement in January 2009. BSC are attending the monthly Project Stakeholder Consortium Committee meetings and attended the Tram Board to brief executives on current proposals.

7 COMMERCIAL

7.1 Milestones

Milestones Achieved in the Period

Month 6 Preliminaries (BB) Month 6 Preliminaries (S) Month 6 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 11th November 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.

From these discussions it has become evident that it is not clear from the infraco contract what information has to be in place before tie will issue a Construction Interim Milestone and this fact has led to some milestones not being certified.

It has been agreed to hold a further series of meetings with our respective Project Managers and set out clearly the criteria which need to be met to allow a milestone to be certified.

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 Charts

See Appendix 10.8

9 OTHER ISSUES

No comments







- 10 Appendices
- 10.1 KPI Report

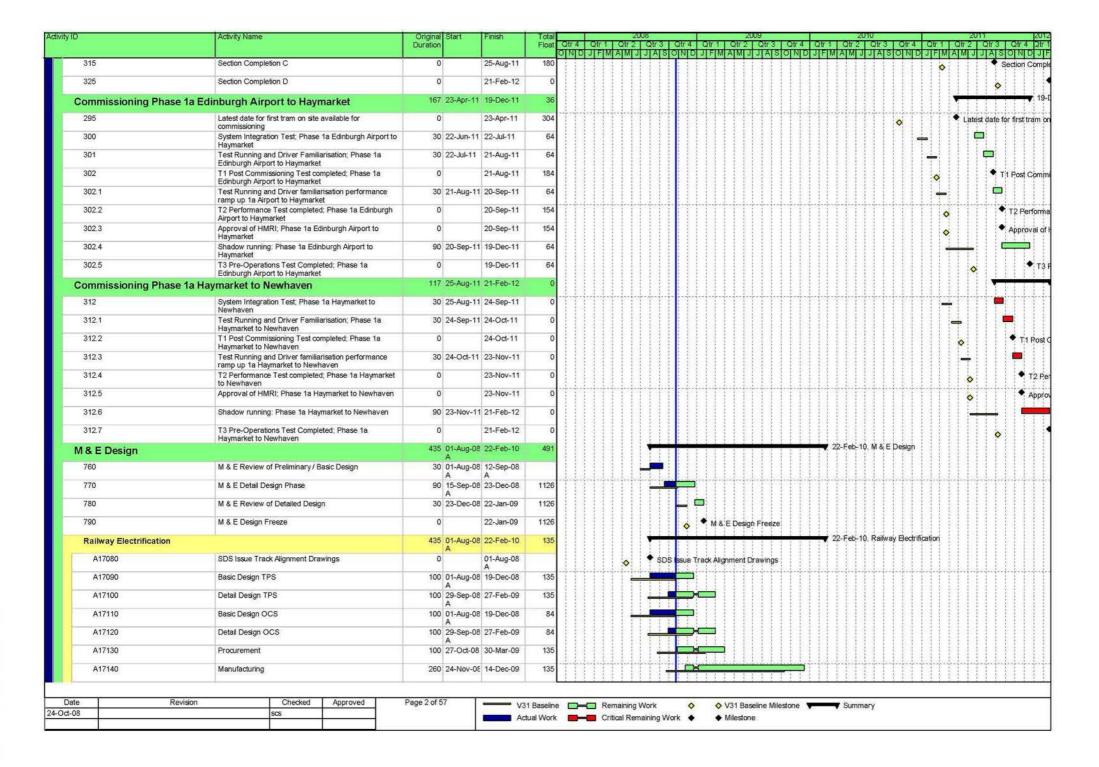




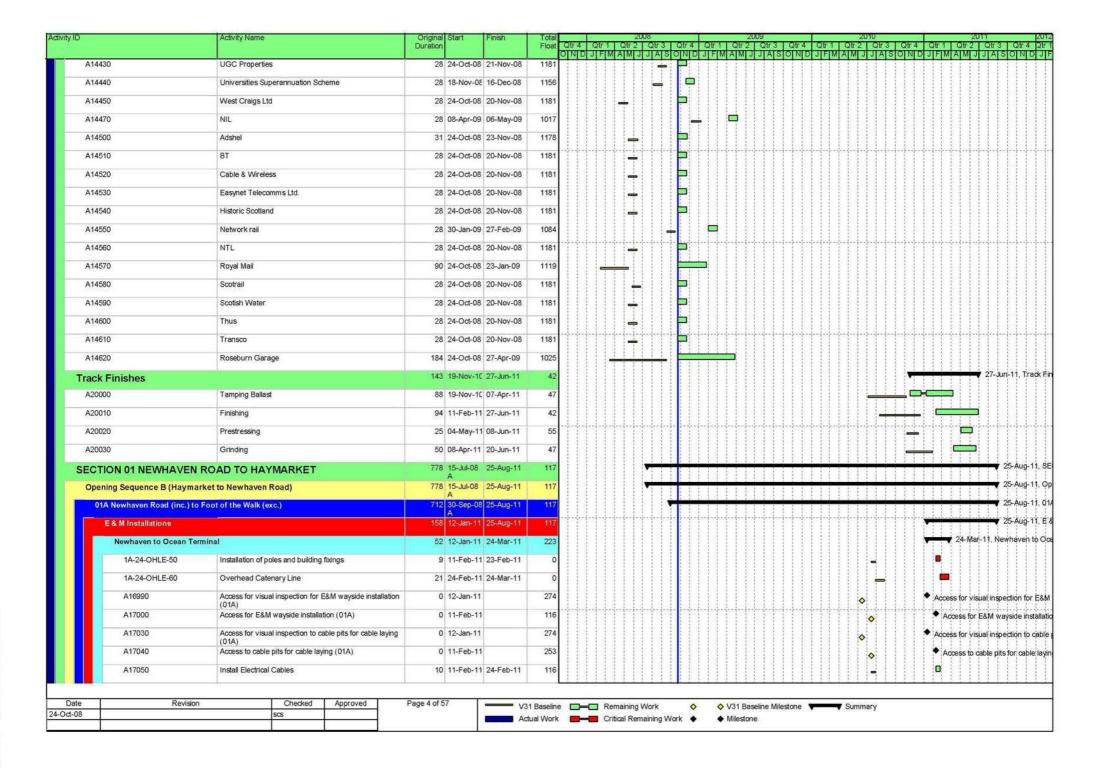


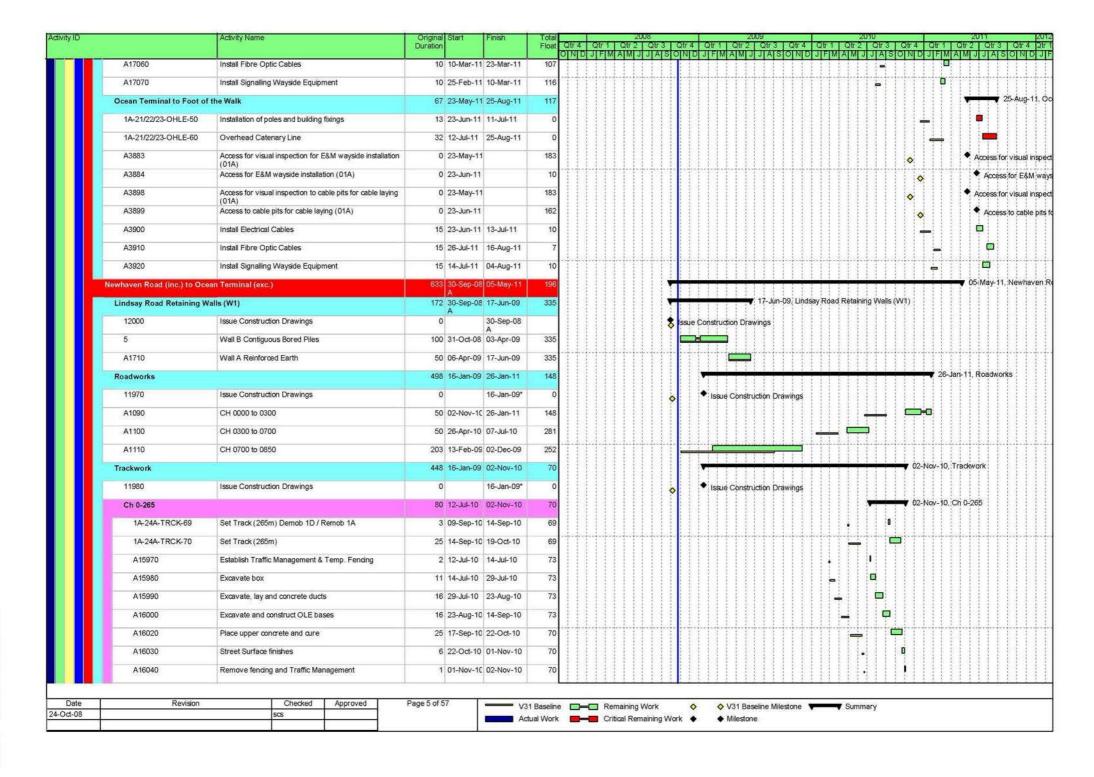


10.2 Programme Update



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A17150	Dispatch	240	03-Mar-09	22-Feb-10	135	d M D	U FIN	I VIMI	JANS	SOMONEWAMNINASOMONEMAMNINASOMONEMAMNINASO
A17160	SDS Design OLE Foundations	100	10-Nov-08	14-Apr-09	84				-	
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190	MUDFA & Utilities work area 2 completion	0 :	24-Oct-08		210	+++		hhh	٥	MUDFA & Utilities work area 2 completion;
200	MUDFA & Utilities work for sub section 1C	0 :	31-Oct-08		364				ΙĬΙ	MUDFA & Utilities work for sub-section 1C
210	MUDFA & Utilities work for sub section 1D	0	19-Dec-08		146					MUDFA & Utilities work for sub section 1D
220	MUDFA & Utilities work area 5		24-Oct-08		1216					MUDFA & Utilities work area 5
230	MUDFA & Utilities work for sub section 5B	8218	24-Oct-08		56	•				MUDFA & Utilities work for sub section 5B
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A14170	ADM Milling	28	16-Jan-09	13-Feb-09	1099					
A14180	CGM Edinburgh Ltd.	28	18-Nov-08	16-Dec-08	1156				+	
A14190	Forth Ports	28	24-Oct-08	20-Nov-08	1181					
A14200	ICAS	184	24-Oct-08	27-Apr-09	1025		-	-		
A14210	Kenmore Capital	28	18-Nov-08	16-Dec-08	1156				-	
A14220	Land Securities Trillium	28 (06-Dec-08	05-Jan-09	1138	III			III	
A14230	NULAP	62	24-Oct-08	24-Dec-08	1147					
A14240	Ocean Terminal	28	05-Feb-10	05-Mar-10	717					
A14250	Royal Yacht Britannia	28 (05-Feb-10	05-Mar-10	717					
A14260	Trustees of City Point	28	18-Nov-08	16-Dec-08	1156				1	
A14270	Verity Trustees	28	18-Nov-08	16-Dec-08	1156	++1		HH		
A14280	CGM Edinburgh Ltd	28	18-Nov-08	16-Dec-08	1156					
A14350	BAA	28	24-Oct-08	20-Nov-08	1181			_		
A14360	Clerical Medical Investment Group	28	18-Nov-08	16-Dec-08	1156				-	ė
A14370	Jenners (JPSE)	28	30-Jun-09	29-Jul-09	934					
A14380	Murrayfield Indoor Sports Centre	28 3	24-Oct-08	20-Nov-08	1181	++-				
A14390	NEL & EPML	28	18-Nov-08	16-Dec-08	1156					
A14400	Royal Mail		The second of the second	20-Nov-08	1181					<u> </u>
A14410	Safeway - Morrisons	757040		24-Feb-09	1088				ITI	
A14420	SRU			20-Nov-08	1181					7 4 7
A17740	300	20	L+-001-00	20-1407-00	1101	Ш	11			
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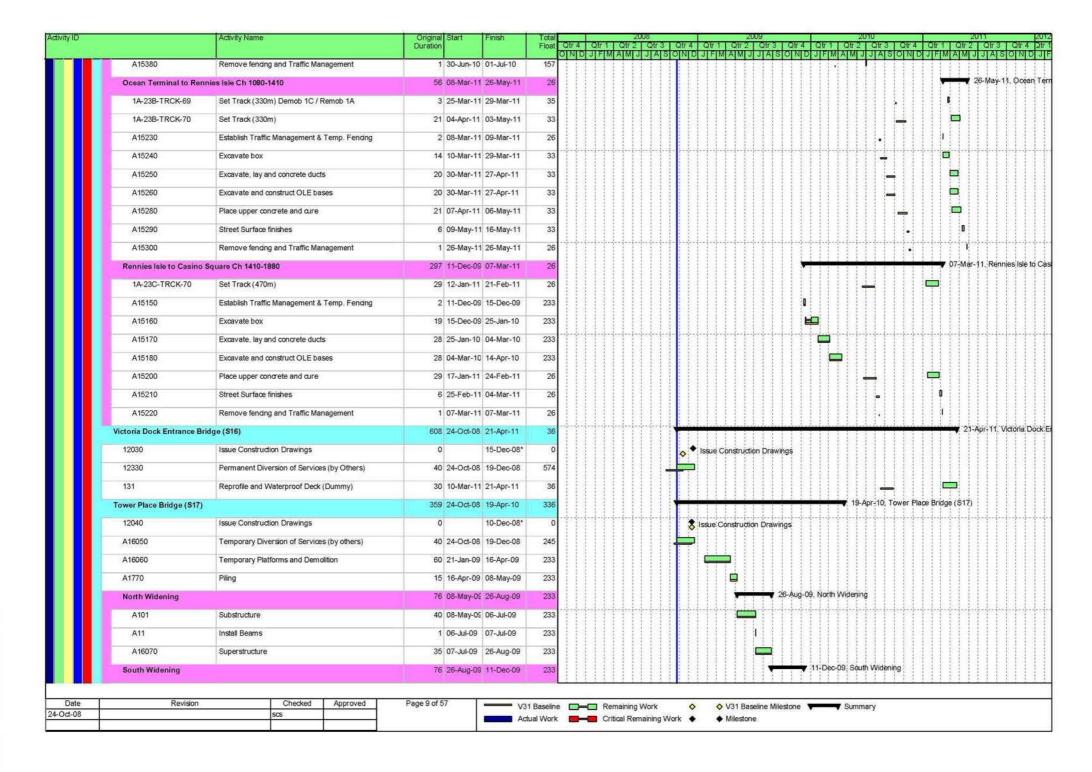




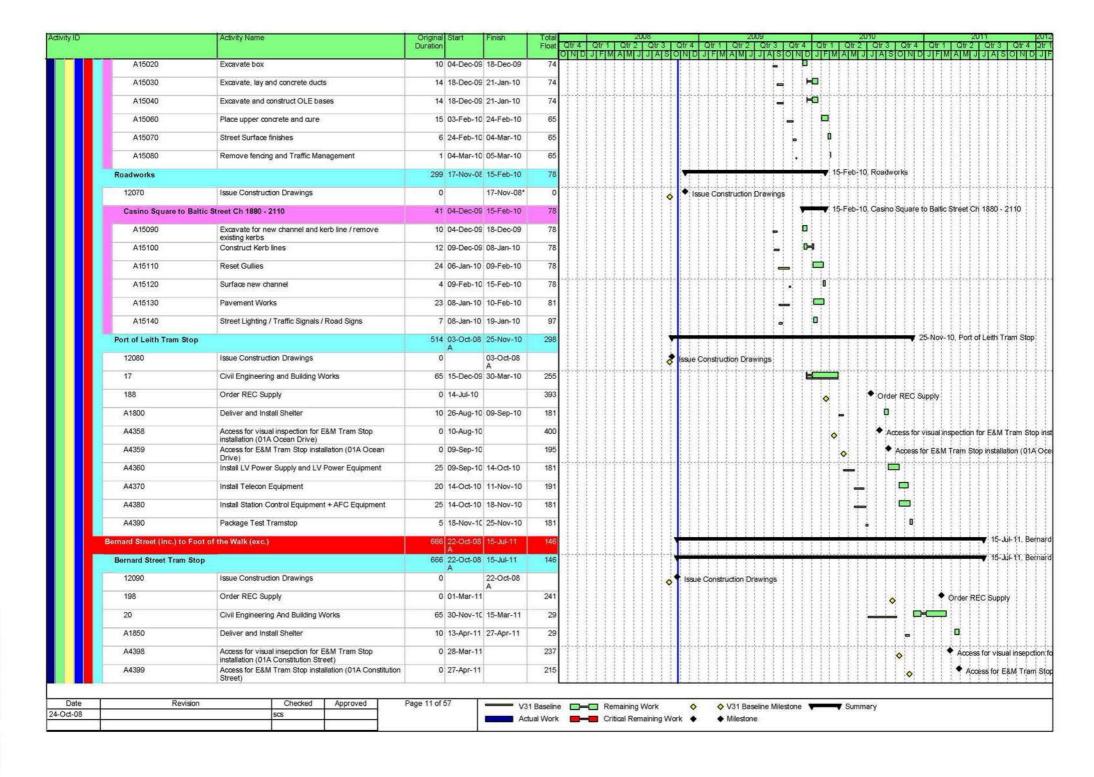
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	1A-24B-TRCK-70	Set Track (160m)	11	25-Mar-10	12-Apr-10	49		•
	A15890	Establish Traffic Management & Temp. Fencing	2	17-Feb-10	19-Feb-10	129		+++++++++++++++++++++++++++++++++++++++
8	A15900	Excavate box	6	19-Feb-10	01-Mar-10	129		
	A15910	Excavate, lay and concrete ducts	9	01-Mar-10	12-Mar-10	129		
1	A15920	Excavate and construct OLE bases	9	12-Mar-10	25-Mar-10	129		
	A15940	Place upper concrete and cure	11	30-Mar-10	15-Apr-10	126		6
1	A15950	Street Surface finishes	6	15-Apr-10	23-Apr-10	126		0
	A15960	Remove fending and Traffic Management	1	23-Apr-10	26-Apr-10	126		
CH	1 425-475		22	22-Sep-09	22-Oct-09	202	√ 22-Oct-09	Ch 425-475
-	1A-24C-TRCK-70	Set Track (50m)			13-Oct-09	41	_ 10	
	A15810	Establish Traffic Management & Temp. Fending			24-Sep-09	205		
	A15820	Excavate box			28-Sep-09	205		
	A15830	Excavate, lay and concrete ducts			01-Oct-09	205		
	A15840	Excavate and construct OLE bases	201		06-Oct-09	205		
	A15860	Place upper concrete and cure			16-Oct-09	202		
	A15870	Street Surface finishes	~~		21-Oct-09	202		
	A15880	Remove fending and Traffic Management			22-Oct-09	202		
Ch	475-600		43	10-Jul-09	10-Sep-09	213	710-Sép-09, Cf	4/5-600
	1A-24D-TRCK-70	Set Track (125m)	10	13-Aug-09	27-Aug-09	45	_ D	
A	A15730	Establish Traffic Management & Temp. Fencing	2	10-Jul-09	14-Jul-09	216		
1	A15740	Excavate box	5	14-Jul-09	21-Jul-09	216	_ 0	
6	A15750	Excavate, lay and concrete ducts	8	21-Jul-09	31-Jul-09	216		
2	A15760	Excavate and construct OLE bases	8	31-Jul-09	13-Aug-09	216		
9	A15780	Place upper concrete and cure	10	18-Aug-09	01-Sep-09	213		
3	A15790	Street Surface finishes	6	01-Sep-09	09-Sep-09	213		
9	A15800	Remove fending and Traffic Management	1	09-Sep-09	10-Sep-09	213		
Ch	600-700	<u></u>	36	03-Apr-09	28-May-09	247	y√ 28-May-09, Ch 600-700	
	1A-24E-TRCK-69	Set Track Demob 2A /Remob 1A	3	27-Арг-09	30-Apr-09	11		
- 1	1A-24E-TRCK-70	Set Track (100m)	8	30-Apr-09	13-May-09	11	4 0	
	A15650	Establish Traffic Management & Temp. Fending	2	03-Apr-09	07-Apr-09	250		
9	A15660	Excavate box	4	07-Apr-09	14-Apr-09	250	_ 0	
	A15670	Excavate, lay and concrete ducts	6	14-Apr-09	22-Apr-09	250		+++++++++++++++++++++++++++++++++++++++
	A15680	Excavate and construct OLE bases	6	22-Apr-09	30-Apr-09	250	_ 0	
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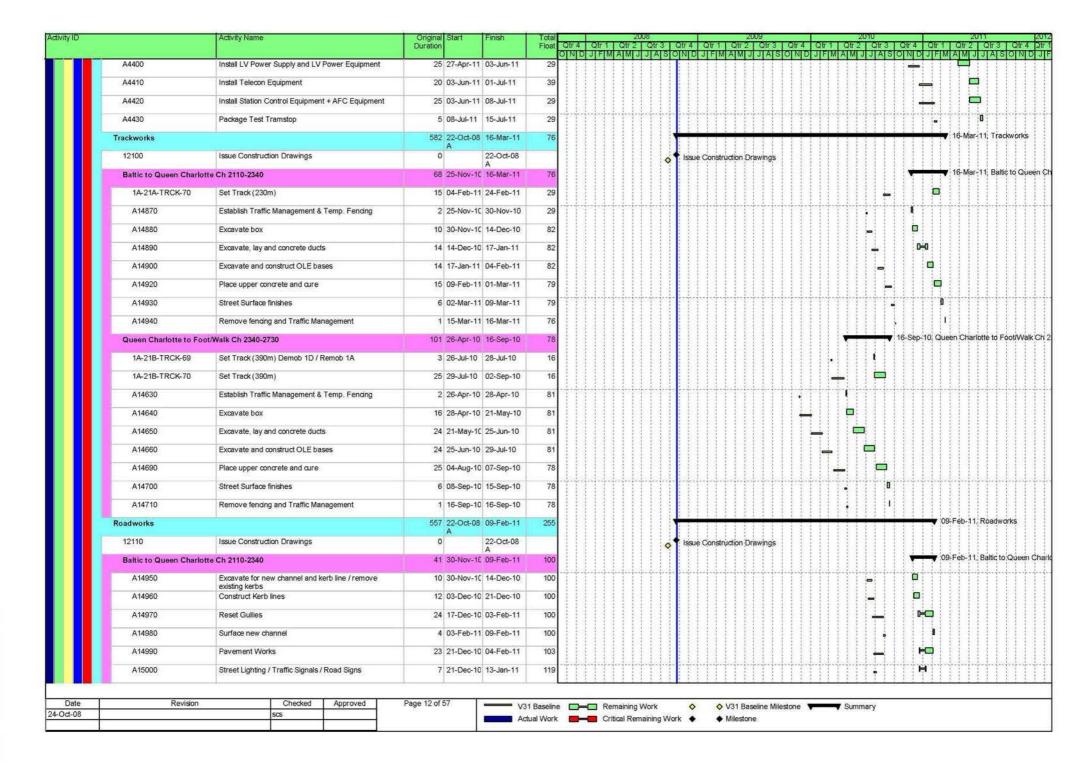
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A15570	Establish Traffic Management & Temp. Fending	2	17-Aug-10	19-Aug-10	82									Ш				1		1								
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8	Civil and Building Works	65	02-Nov-10	16-Feb-11	93											1				+	- 1			4				
98	Order REC Supply	0	07-Dec-10		291		11								11	11		11		0		٠	Orde	er RE	C Supp	ply		
A1680	Deliver and Install Shelter	10	01-Feb-11	15-Feb-11	79							П									-		0					
A4288	Access for visual inspection for E&M Tram Stop	0	14-Jan-11		272	tti	11	11	HT	11	77	11	Ħ	ttt	11	11	11	11	11	0	H	H	◆ A	Access	s for vis	sual in	spect	1
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36	Order REC supply from Scottish Power	0	12-Oct-10		118									Ш				П	•		•	Order	REC	C sup	pply from	m Sa	ottish (F
6	Civil Engineering and Building Works	65	02-Nov-10	16-Feb-11	118													П	11	+	_ 1	<u> </u>	-			Н		
A5480	Power Infeed from Public Net available inc HV cable	0	16-Feb-11		118													П			٥		•	Pov	wer Inf	feed fr	om P	2
A5483	Access for visual inspection for E&M Substation	0	17-Jan-11		271	111	11	111	111				11	ttt	1	+-+-	11	†-†-	11	<	,	1	Ф д	Acces	s for vi	isual ir	nsped	d
A5484	installation (01A Leith Sands) Access for E&M Substation installation (01A Leith Sands)	0	16-Feb-11		118													П			^		•	Acc	cess for	r E&N	1 Sub:)5
A5490	Install LV Power Supply and LV Power Equipment	15	16-Feb-11	09-Mar-11	118																· _		1 - 1					
A5500	Installation of TPS Equipment			23-Feb-11	114										11						H			,				
20000000		22,000	CHENTS CONT.		2510364										11					•			-	11				
A5510	Install Telecom and Scada			23-Feb-11	114	Ш						11.	Ш			11		Ш					11	11		Ш		
A5520	Testing and Commissioning	14	23-Feb-11	15-Mar-11	114		11					11		Ш		11					-					11		
Revision	Checked Approved	Page 7 of 5	7 1		and the trace theorem	200	14780	53/54/66/00m	and the second		15100	-	2210200	AT 10 74 70 70 70	invana sa			1,994	ARREDO-T	New 2000								_
Venigoti	Checked Approved	age / 010	e:	V3	1 Baseline		Re	emainir	ng Work	1	0	0	V31 I	Baseline	Miles	tone	_	_	Summ	nary								

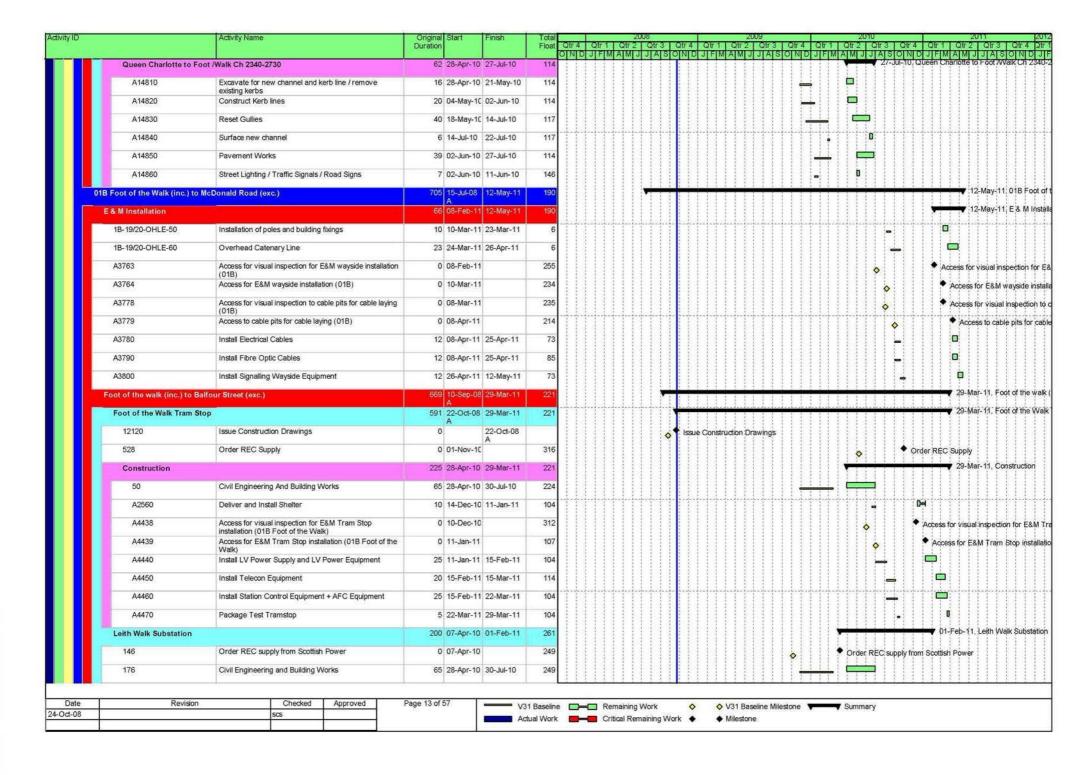
	Activity Name	Original Start Finish Duration		loat Qtr 4			Qtr				Qtr 2 Qtr 3 Qtr 4		2010 r2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3
Ocean Terminal (inc.) to	Port of Leith (exc.)	685 24-Oct-08 11-Aug-11	11	127	JEN	AM	JJA	SO	ND	JEM	AMJJASOND	JEMAN	MUUASONDUFMAMUUAS
Roadworks	Autorial (Autorial Madalage)	493 26-May-05 25-May-11		26					11		لللللللإاا		25-May-1
	The Court of the Prince								Ш				
12010	Issue Construction Drawings	0 26-May-09	******	U						•	ssue Construction I	1111	
Ocean Terminal Ch	850-1080	47 09-Mar-10 17-May-10	10	188									7 17-May-10, Ocean Terminal Ch 850-1080
A15510	Excavate for new channel and kerb line / remove existing kerbs	12 09-Mar-10 25-Mar-10	10	188	11				1				
A15520	Construct Kerb lines	14 12-Mar-10 01-Apr-10	0	188									
A15530	Reset Gullies	28 26-Mar-10 07-May-10	10	188					11			_ =	
A15540	Surface new channel	6 07-May-10 17-May-10	10	188					11			. 0	
A15550	Pavement Works	28 01-Apr-10 13-May-10	10	190					11				
A15560	Street Lighting / Traffic Signals / Road Signs	7 01-Apr-10 13-Apr-10	0	211					++	4-4-4		
New March Colors	Rennies Isle Ch 1080-1410	53 10-Mar-11 25-May-11	25.00	26									25-May-1
A15450	Excavate for new channel and kerb line / remove existing kerbs	14 10-Mar-11 29-Mar-11	11	26									
A15460	Construct Kerb lines	17 15-Mar-11 07-Apr-11	1	26					11				
A15470	Reset Gullies	34 29-Mar-11 17-May-11	11	26					11				
A15480	Surface new channel	6 18-May-11 25-May-11	11	26	TIT	TTI	TT		TI	III		TITI	. 0
A15490	Pavement Works	33 08-Apr-11 25-May-11	11	26									
A15500	Street Lighting / Traffic Signals / Road Signs	7 08-Apr-11 18-Apr-11	1	52					11			1111	
Rennies Isle to Cas	ino Square Ch 1410-1880	74 15-Dec-09 13-Apr-10	10	246								1	3-Apr-10, Rennies Isle to Casino Square Ch 14
A15390	Excavate for new channel and kerb line / remove	19 15-Dec-09 25-Jan-10	0	246							<u> </u>		
A15400	existing kerbs Construct Kerb lines	24 18-Dec-09 04-Feb-10		246			44.		44			11111	444444444
CONSCIONS	10000000000000000000000000000000000000	5207 A 539 SERVER SERVE SYSTEM AS	ASC .										
A15410	Reset Gullies	48 15-Jan-10 24-Mar-10	10	253					11			Ti	
A15420	Surface new channel	6 24-Mar-10 01-Apr-10	10	253					11				
A15430	Pavement Works	47 04-Feb-10 13-Apr-10	0	246									
A15440	Street Lighting / Traffic Signals / Road Signs	7 04-Feb-10 15-Feb-10	10	286								0	
Trackwork	L.	494 26-May-09 26-May-11	11	26	11	tti	TT		11	111	 	1111	26-May-1
12020	Issue Construction Drawings	0 26-May-09	09*	0					Ш	٥	Issue Construction [Drawings	
Ocean Terminal Ch	850-1080	81 05-Mar-10 01-Jul-10	0	157					11				01-Jul-10, Ocean Terminal Ch 850-1080
1A-23A-TRCK-70	Set Track (280m)	28 07-May-10 17-Jun-10	0	45									<u></u>
A15310	Establish Traffic Management & Temp. Fending	2 05-Mar-10 09-Mar-10		72									
VEX. SECURE SECURIO					-	ļļļ	44.		44			
A15320	Excavate box	12 09-Mar-10 25-Mar-10		72									
A15330	Excavate, lay and concrete ducts	17 25-Mar-10 20-Apr-10		72					11				
A15340	Excavate and construct OLE bases	17 25-Mar-10 20-Apr-10	0	72									
A15360	Place upper concrete and cure	28 12-May-10 22-Jun-10	0	157								- 1	-
A15370	Street Surface finishes	6 22-Jun-10 30-Jun-10	10	157								-	d
Revisi	on Checked Approved	Page 8 of 57	V31 R	seline	G Re	mainin	a Work		\$	٥	V31 Baseline Milestone	Su	mmary
	scs	92		Vork	The Service						Milestone	• 50	00.0000.4



D.		Activity Name	Original Start Duration	Finish		tr 1 Qtr 2 Qtr 3	
	A16080	Substructure	40 26-Aug-	09 21-Oct-09	233	I M V M O O V	SION DIFM AM IJASION DIFMAM IJASION DIFMAM IJASION
	A1760	Install Beams	1 21-Oct-0	9 22-Oct-09	233		
	A31	Superstructure	35 22-Oct-0	9 11-Dec-09	233		
П	Deck Finishes	1111	80 11-Dec-	09 19-Apr-10	336		▼ 19-Apr-10; Deck Finishes
	A16090	Permanent Diversion of Services (by others)		09 19-Feb-10	336		
	A16100	Finishes	200 - Carlo -	10 19-Apr-10	336		<u> </u>
ш	Ocean Terminal Tram Stop			09 11-Aug-11	127	444444	11-Aug
i i							
	12050	Issue Construction Drawings	0	27-May-09*	0		Issue Construction Drawings
ш	14:	Civil Engineering and Building Works	65 09-Mar-	10 11-Jun-10	170		
	178	Order REC Supply	0 09-Jun-1	0	418		♦ Proder REC Supply
	A1720	Deliver and Install Shelter	10 21-Jul-10	05-Aug-10	206		. O
	A4318	Access for visual insepction for E&M Tram Stop installation (01A Ocean Terminal)	0 05-Jul-10)	399	THIIT	♦ Access for visual insepction for E&M Tram Sto
	A4319	Access for E&M Tram Stop installation (01A Ocean	0 05-Aug-	10	206		♦ Access for E&M Train Stop installation (01A
	A4320	Terminal) Install LV Power Supply and LV Power Equipment	25 05-Aug-	10 09-Sep-10	206		
	A4330	Install Telecon Equipment	20 09-Sep-	10 07-Oct-10	216		
	A4340	Install Station Control Equipment + AFC Equipment	25 09-Sep-	10 14-Oct-10	206		
	A4350	Package Test Tramstop	5 14-Oct-1	0 21-Oct-10	206		
	A6090	Installation of SIG-interlocking cubicle (2)		10 09-Sep-10	231		1 1 1 1 1 1 1 1 1 1
	A6100	Commissioning of SIG -interlocking cubicle	(2)	11 11-Aug-11	10		1 1 1 1 1 1 1 1 1 1
							25-Nov-10, Port of Leith (inc.) to
	Port of Leith (inc.) to Bernard	Street (exc.)	A	08 25-Nov-10	298		
	Trackworks		352 17-Nov-	08 30-Apr-10	290		30-Apr-10, Trackworks
	12060	Issue Construction Drawings	0	17-Nov-08*	0		Ssue Construction Drawings
	Casino Square to Baltic	Street Ch 1850-1880	39 05-Mar-	10 30-Apr-10	290		30-Apr-10, Casino Square to Baltic Street Ch 1850-1
	1A-22A-TRCK-70	Set Track (30m)	4 12-Apr-1	0 16-Apr-10	49		
	A16110	Establish Traffic Management & Temp. Fencing	2 05-Mar-	10 09-Mar-10	65		
	A16120	Excavate box	2 09-Mar-	10 11-Mar-10	65		
	A16130	Excavate, lay and concrete ducts	3 11-Mar-	10 16-Mar-10	65		
	A16140	Excavate and construct OLE bases	3 16-Mar-	10 19-Mar-10	65		- Lander - L
	A16160	Place upper concrete and cure	4 15-Apr-1	0 21-Apr-10	290		. II
	A16170	Street Surface finishes		0 29-Apr-10	290		_ 0
	A16180	Remove fending and Traffic Management		0 30-Apr-10	290		
	1570,500,000,000,000			09 05-Mar-10			
	Casino Square to Baltic				65		
	1A-22B-TRCK-70	Set Track (230m)		0 19-Feb-10	41		
	A15010	Establish Traffic Management & Temp. Fencing	2 02-Dec-	09 04-Dec-09	74		
		1 20-1 : 1 : 1	B 40 - 452				
ate	Revision	Checked Approved	Page 10 of 57	- V3	R1 Raseline	Remaining Work	♦ V31 Baseline Milestone Summary







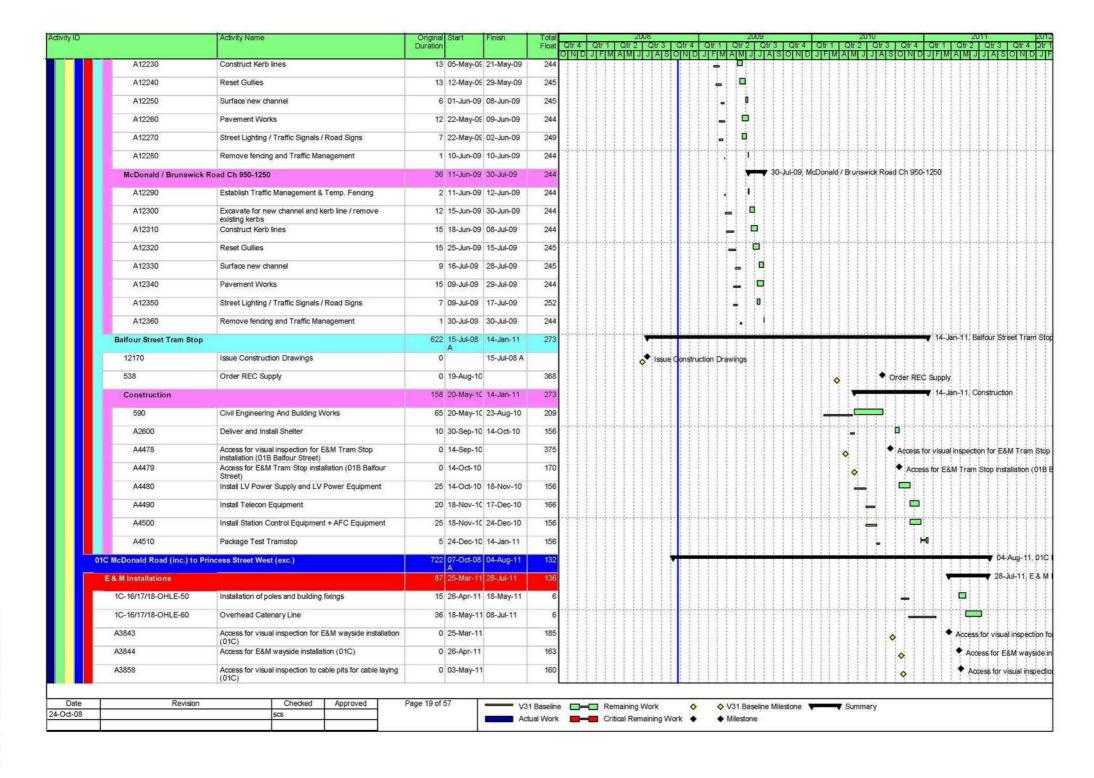
vity ID		Activity Name	Original Duration	Start	Finish			2008 r 1 Qtr 2 0 -[M A[M] J J					4 Qtr 1					2011 2tr 2 Q	atr 3 Qtr	tr 4
	A2638	Access for visual inspection for E&M Substa installation (01B Leith Walk)	tion 0	30-Jun-10)	429	NIN DIST	MAMO	IN SICI	VID 3 FIM	VIMIAIA	A S O	UD JEN						Substation	
	A2639	Access for E&M Substation installation (01E	Leith Walk) 0	30-Jul-10		265							o		♦ Acce	ss for E&N	Substa	tion install	ation (01B	BLe
	A5530	Power Infeed from Public Net available inc	HV cable 0	30-Jul-10		249									Powe	er Infeed fr	nom Pub	lic Net av	ailable inc l	HV
	A5540	Install LV Power Supply and LV Power Equ	ipment 15	02-Nov-1	23-Nov-10	183								_						-
	A5550	Installation of TPS Equipment	30	16-Nov-1	12-Jan-11	144								11.	4					
	A5560	Install Telecom and Scada	15	08-Dec-10	12-Jan-11	144	++	+++++		++++			++++			04				÷
	A5570	Testing and Commissioning	14	12-Jan-11	01-Feb-11	144														
	Trackwork		457	10-Sep-08	3 18-May-10	51			-			-	1111	18	3-May-10,	Trackworl	k			
	12130	Issue Construction Drawings	0	A	10-Sep-08	2500			♦ Issu	e Construction	Drawings									
	Foot of the Walk Ch 0-10	0	58	24-Jul-09	A 15-Oct-09	44		0				 ,	5-Oct-09, F	oot of the	Walk Ch	0-100				
	Phase 1				24-Aug-09	41	 	 - - - - -		4-1-1-4-1		24-AL	g-09, Phase	h						4
	1B-20A-TRCK-69	Set Track Demob 1D / Remob 1B			05-Aug-09	41														
_	1B-20A-TRCK-70	Set Track (50m)			3 13-Aug-09	41														
_	are described to a service of		PATER AND THE PA	CASCANTEE:	E DENNINESCO	7770					1									-
	A12450	Establish Traffic Management & Temp. Fer			28-Jul-09	44														
	A12460	Excavate box	535	200202-000000	30-Jul-09	44														
	A12470	Excavate, lay and concrete ducts	3	30-Jul-09	05-Aug-09	44					•									
•	A12480	Excavate and construct OLE bases	3	30-Jul-09	05-Aug-09	44					•									
	A12510	Place upper concrete and cure	6	10-Aug-09	18-Aug-09	41					•	0								
	A12520	Street Surface finishes	3	18-Aug-09	21-Aug-09	41					•	1								
	A13510	Remove fending and Traffic Management	1	21-Aug-09	24-Aug-09	41						1								
•	Phase 2	-	18	24-Aug-09	9 17-Sep-09	43		mm				17-	Sep-09, Pha	ise 2						Ť
	1B-20B-TRCK-70	Set Track (50m)	. 4	02-Sep-09	08-Sep-09	41					•	0								
	A12530	Establish Traffic Management & Temp. Fer	iding 2	24-Aug-09	26-Aug-09	41														
•	A12540	Excavate box	2	26-Aug-09	28-Aug-09	41						•								
_	A12550	Excavate, lay and concrete ducts	3	28-Aug-09	02-Sep-09	41						1								
	A12560	Excavate and construct OLE bases	3	28-Aug-09	02-Sep-09	41	1111	tttt	ttt	ttitt		0	ttit	TT	rttt	ttt	hh		mm	+
	A12590	Place upper concrete and cure	4	07-Sep-09	11-Sep-09	43						0								-
	A12600	Street Surface finishes	3	11-Sep-09	16-Sep-09	43						1								
	A13500	Remove fending and Traffic Management	1	16-Sep-09	3 17-Sep-09	43						1								1
	Phase 3		20	17-Sep-09	9 15-Oct-09	44						**	5-Od-09, P	hase 3						-
	1B-20C-TRCK-69	Set Track (50m) Demob 2A / Remob 1B	3	25-Sep-09	30-Sep-09	41	++++	+++++		+++++	++:+	d	++++	++		+++				+
•	1B-20C-TRCK-70	Set Track (50m)	4	30-Sep-09	9 06-Oct-09	41						1								
	A12610	Establish Traffic Management & Temp. Fer	iding 2	17-Sep-09	21-Sep-09	43														-
	A12620	Excavate box			3 23-Sep-09	43						1								
	AND DESCRIPTION			CANTELO PARTIE		3377	1111				1111	111							111	-
Date	Revision	Checked Approv	ed Page 14 of	57	V3	1 Baseline		Remaining Wo	ork	• • •	/31 Baselin	Mileston	e 🔻	▼ Summ	arv					_
4-Oct-08		scs						Critical Remai			Ailestone	- milester	0.00	· Sami	- 1					

	Activity Name	Original Start Duration	Finish			4 Qt 1 Qt 2 Qt 3 Qt 4 Qt 1 Qt 2 Qt 3 Qt 4 Qt 1 Qt DJFMAMJJASONDJJFMAM
A12630	Excavate, lay and concrete ducts	3 23-Sep-0	9 28-Sep-09	43		. U
A12640	Excavate and construct OLE bases	3 23-Sep-0	9 28-Sep-09	43		
A12670	Place upper concrete and cure	4 05-Oct-09	09-Oct-09	44		
A12680	Street Surface finishes	3 09-Oct-09	14-Oct-09	44		
A13490	Remove fencing and Traffic Management	1 14-Oct-09	9 15-Oct-09	44		
Leith Walk Ch 100-	350	72 15-Oct-09	09-Feb-10	52		▼ 09-Feb-10, Leith Walk Ch 100-350
1st half	hear	34 15-Oct-09	9 03-Dec-09	49		▼
1B-20D-TRCK	-69 Set Track (250m) Demob 2A / Remob 1B	3 05-Nov-0	9 10-Nov-09	41		
1B-20D-TRCK	-70 Set Track (250m)	10 10-Nov-0	9 24-Nov-09	41		_ 0
A12690	Establish Traffic Management & Temp. Fending	2 15-Oct-09	19-Oct-09	44		. 0
A12700	Excavate box	5 19-Oct-09	26-Oct-09	44		. 0
A12710	Excavate, lay and concrete ducts	8 26-Oct-09	05-Nov-09	44	++++++++++ -	
A12720	Excavate and construct OLE bases		05-Nov-09	44] 0
A12750	Place upper concrete and cure	10 13-Nov-0		49		
A12760	Street Surface finishes		9 03-Dec-09	49		
2nd half	100000 1000 TO	38 03-Dec-0	NESS TABLES AND DESCRIPTION OF THE PERSON OF	52		V 09⊱Feb-10, 2nd half
1B-20E-TRCK	-70 Set Track (250m)	10 15-Jan-10		41	++-++++++	
A13090	Excavate box	5.000.000.000	9 10-Dec-09	49		
A13100		8 10-Dec-0		49		
100000000000000000000000000000000000000	Excavate, lay and concrete ducts					,
A13140	Place upper concrete and cure	10 20-Jan-10	A 229 A 2 5 1 2 2 7 A 2 1	52		
A13150	Street Surface finishes		0 08-Feb-10	52		
A13160	Remove fending and Traffic Management	10.10000/1900000	0 09-Feb-10	52		18-May-10, Leith Walk Ch 350-60
Leith Walk Ch 350-	600	68 09-Feb-1	(18)	51		
1st half		38 09-Feb-1	Comproved Comproved in Comprove	45		▼ 05-Apr-10. 1st half
1B-20F-TRCK		2 05MANS	0 11-Mar-10	45		
1B-20F-TRCK	-70 Set Track (250m)	10 11-Mar-1	25-Mar-10	45		- 0
A12770	Establish Traffic Management & Temp. Fending	2 09-Feb-1	0 11-Feb-10	52		
A12780	Excavate box	5 11-Feb-1	0 18-Feb-10	52		- 10
A12790	Excavate, lay and concrete ducts	8 18-Feb-1	02-Mar-10	52		- 0
A12800	Excavate and construct OLE bases	8 18-Feb-1	0 02-Mar-10	52		+ 0
A12830	Place upper concrete and cure	10 16-Mar-1	30-Mar-10	45		<u>.</u> 0
A12840	Street Surface finishes	3 30-Mar-1	05-Apr-10	45		
2nd half		30 05-Apr-10	18-May-10	51		▼ 18-May-10, 2nd half
18-20G-TRCK	G-70 Set Track	10 22-Apr-10	07-May-10	45		
Revis	ion Checked Approved	Page 15 of 57	— v3	1 Baseline	Remaining Work	♦ V31 Baseline Milestone Summary
	SCS	965			Critical Remaining Work	

		Activity Name	Original Duration	Start	Finish	Total Float			2008 2 Qtr 3										Qtr 4			Qtr 2	Qtr	3
	A13170	Excavate box	5	05-Apr-10	12-Apr-10	45	ונים און	EM AM	JJAS	OND	J F M	NIM J J	ASO	N D	100	UALM	JJ	AS	ON	וויוט	T IMI A	NI V	JJA	18
	A13180	Excavate, lay and concrete ducts	8	12-Apr-10	22-Apr-10	45										0						11		
	A13220	Place upper concrete and cure			12-May-10	51	+++-							44	14				44	++	44.	-		-
	A13230	Street Surface finishes		The state of the s	17-May-10	51									11									
					1.00						HII			-	•			-			11			10000
	A13240	Remove fending and Traffic Management			18-May-10	51					Ш			J.		11.								
F	Roadworks		119	10-Sep-08 A	11-Mar-09	137			HIM		m f	1-Mar-09;	Roadwo	rks										1
	12140	Issue Construction Drawings	0		10-Sep-08 A				*	Issue Co	nstruction	Drawings												4444
	Leith Walk Ch 350 - 100	·	26	13-Oct-08 A	28-Nov-08	137	1111	TTT		7 2	8-Nov-08	Leith Wal	k Ch 350	- 100	11				11	11	T		11	-
f	A12370	Establish Traffic Management & Temp. Fending	2	A STATE OF THE PARTY OF THE PAR	15-Oct-08					1														
ji-	A12380	Excavate for new channel and kerb line / remove	10	16-Oct-08	04-Nov-08	137			-	þ												11		
-	A12390	existing kerbs Construct Kerb lines	13	A 24-Oct-08	11-Nov-08	137																		-
ļ-	A12400	Reset Gullies			18-Nov-08	138																		
45-		0.0000000000000000000000000000000000000					ļ.ļ.								44	44.		- -		44	44.		-	
	A12410	Surface new channel			26-Nov-08	138			1									1						
	A12420	Pavement Works	12	12-Nov-08	27-Nov-08	137			-					1				1						****
	A12430	Street Lighting / Traffic Signals / Road Signs	7	12-Nov-08	20-Nov-08	142			•	0				-										-
ľ	A12440	Remove fending and Traffic Management	1	28-Nov-08	28-Nov-08	137			•	1														
II.	Foot of the Walk Ch 0 - 1	00	31	02-Dec-08	27-Jan-09	137				-	27-J	an-09, Foot	of the V	Valk Cr	0-1	00								-
Г	A11970	Establish Traffic Management & Temp. Fending	2	02-Dec-08	03-Dec-08	137	4-4-4-4			1		4-1-4-1		11	++	+++			***	++	+++	1-1-	-	+
ŀ	A11980	Excavate for new channel and kerb line / remove	10	04-Dec-08	17-Dec-08	137				. 0												11		-
H	A11990	existing kerbs Construct Kerb lines	13	09-Dec-08	08-Jan-09	137				_ 0-	4													
II-	A12000	Reset Gullies			15-Jan-09	138				C=	0													****
-		1			23-Jan-09						0													
L	A12010	Surface new channel				138				1				ijļ	11.	Li.			11	11	11.	ļ.,	11	-
	A12020	Pavement Works	12	09-Jan-09	26-Jan-09	137				T														-
	A12030	Street Lighting / Traffic Signals / Road Signs	7	09-Jan-09	19-Jan-09	142				4	0							-						4.444
ľ	A12040	Remove fending and Traffic Management	1	27-Jan-09	27-Jan-09	137					1							11		П				
h	Leith Walk Ch 350-600		31	28-Jan-09	11-Mar-09	137					-	1-Mar-09.	Leith W	alk Ch	50-6	00								1
r	A12050	Establish Traffic Management & Temp. Fending	2	28-Jan-09	29-Jan-09	137					i													-
	A12060	Excavate for new channel and kerb line / remove	10	30-Jan-09	12-Feb-09	137	1111	+	1-1-1-1-	-		1111		++		++-			++	++	++-			
	A12070	existing kerbs Construct Kerb lines	13	04-Feb-09	20-Feb-09	137					0													-
-	A12080	Reset Gullies			27-Feb-09	138					•													
					09-Mar-09					17	n							1						
II.	A12090	Surface new channel				138				•				-				1						
	A12100	Pavement Works	24.5		10-Mar-09	137		LLL.		-	0				11			.i.i		IJ.		i.i.	LL	1
	A12110	Street Lighting / Traffic Signals / Road Signs	7	23-Feb-09	03-Mar-09	142				•	0								11					Seren.
	A12120	Remove fending and Traffic Management	1	11-Mar-09	11-Mar-09	137					I													-
_	Revision	Checked Approved	Page 16 of	57	V3	31 Baseline		Remainir	na Work	\$	01	31 Baselin	e Milesto	ne 🔽		▼ Sun	nmarv							_
		scs	953						Remaining W			lilestone												

	Activity Name	Original Star Duration	t Finish	Fid	2009 2010
alfour Street (inc.) to McDon	ald Road (exc.)	677 15-	ul-08 31-Mar-11	2	
Trackwork		672 10-8	Sep-08 31-Mar-11		v- v 31-Mar-11, Tr
12150	Issue Construction Drawings	0	10-Sep-08	8	sue Construction Drawings
Balfour Street Ch 600-85	0	93 18-1	May-10 27-Sep-10	1	₹ 27-Şep-10, Balfour Street Ch 6
1st half		37 18-1	May-10 09-Jul-10	1 3	, v—v 09-Jul-10, 1st half
1B-19A-TRCK-70	Set Track (250m)	10 17-	lun-10 01-Jul-10	- (1)	
A12850	Establish Traffic Management & Temp. Fending	2 18-1	May-10 20-May-10)	
A12860	Excavate box	5 20-1	May-10 27-May-10)	_ 0
A12870	Excavate, lay and concrete ducts	8 27-1	May-10 09-Jun-10		_ 0
A12880	Excavate and construct OLE bases	8 27-1	May-10 09-Jun-10		_ 0
A12910	Place upper concrete and cure	10 22-3	lun-10 06-Jul-10		_ 0
A12920	Street Surface finishes	3 06-3	lul-10 09-Jul-10		
2nd half	1	200	lul-10 27-Sep-10		
1B-19B-TRCK-70	Set Track (250m)	057, 5057	Sep-10 16-Sep-10		
A13250	Excavate box		lul-10 13-Jul-10		
A13260	Excavate, lay and concrete ducts	0000000	lul-10 23-Jul-10		
A13300			Sep-10 21-Sep-10		
Constantors	Place upper concrete and cure Street Surface finishes	10.000			
A13310			Sep-10 24-Sep-10		
A13320	Remove fencing and Traffic Management		Sep-10 27-Sep-10		
Pilrig / Iona Street Ch 85	0 to 950	0.000	Sep-10 02-Dec-10		
1st half		27 28-5	Sep-10 03-Nov-10)	
1B-19C-TRCK-69	Set Track Demob 1A / Remob 1B	10 06-0	Oct-10 19-Oct-10		
1B-19C-TRCK-70	Set Track (100m)	3 20-0	Oct-10 22-Oct-10	.7	
A12930	Establish Traffic Management & Temp. Fending	2 28-5	Sep-10 29-Sep-10)	
A12940	Excavate box	2 30-5	Sep-10 01-Oct-10	8	
A12950	Excavate, lay and concrete ducts	3 04-0	Oct-10 06-Oct-10		
A12960	Excavate and construct OLE bases	3 04-0	Oct-10 06-Oct-10	0 3	
A12990	Place upper concrete and cure	5 25-0	Oct-10 29-Oct-10		
A13000	Street Surface finishes	3 01-1	Nov-10 03-Nov-10)	
2nd half		20 04-1	Nov-10 02-Dec-10).	y-v 02-Dec-10, 2nd half
1B-19D-TRCK-70	Set Track	3 16-1	Nov-10 18-Nov-10)	
A13330	Excavate box	2 04-1	Nov-10 05-Nov-10)	
A13340	Excavate, lay and concrete ducts	3 08-1	Nov-10 10-Nov-10		
A13380	Place upper concrete and cure	5 19-1	Nov-10 25-Nov-10)	
Revision	Checked Approved	Page 17 of 57		V31 Race	ne Remaining Work ♦ V31 Baseline Milestone Summary
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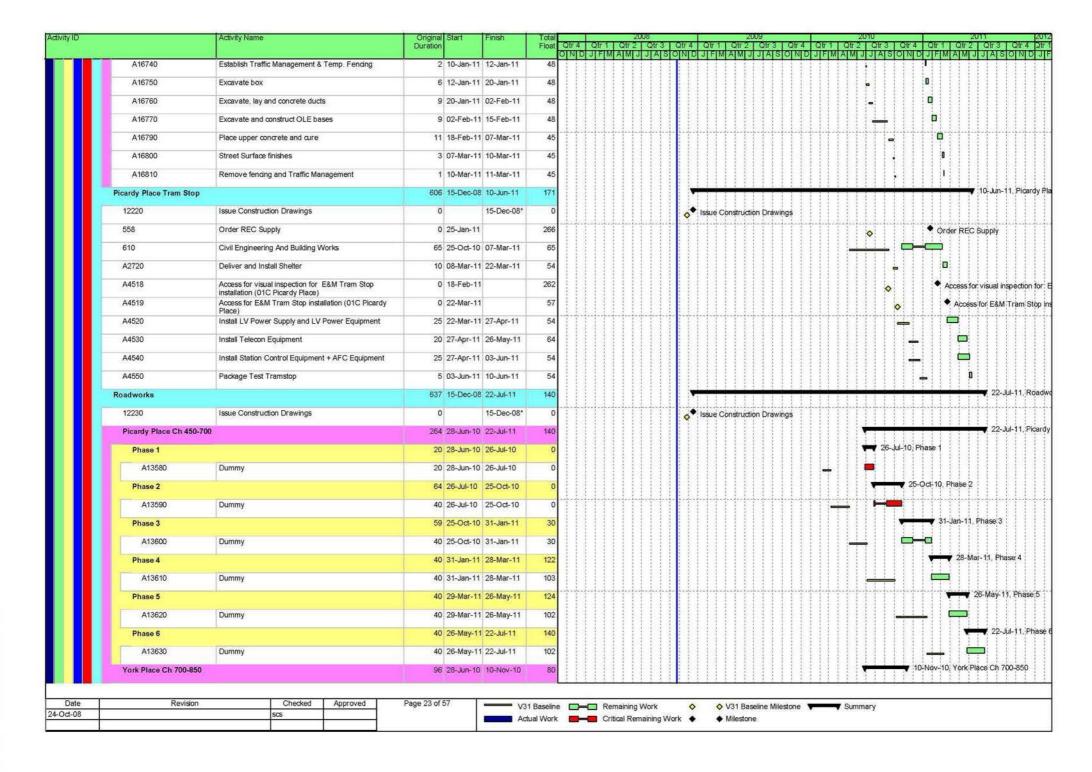
		Activity Name		Original Duration	Start	Finish			1 Qtr 2 0						tr 2 Qtr 3				
	A13390	Street Surface finishes		3	26-Nov-10	01-Dec-10	31	INDIG	MAMO	ASON	DISTRIM	V M O O	AJOINE	1 JUM A	MJJAS	I I	ICIMIO!	WI OF OF OF	9
	A13400	Remove fending and Traffic Ma	inagement	1	02-Dec-10	02-Dec-10	31									1111			-
	McDonald / Brunswick R	toad Ch 950-1250		75	03-Dec-10	31-Mar-11	25									-	3	I-Mar-11, M	/cD
	1st half	_		41	03-Dec-10	11-Feb-11	25									-	▼ 11-Fel	o-11, 1st ha	alf
	1B-19E-TRCK-70	Set Track (300m)				03-Feb-11	25	++		<u></u>		+++			11111		-	++++	1
	A13010	Establish Traffic Management 8	Temp. Fending			06-Dec-10	31									1			10000
	A13020	Excavate box				14-Dec-10	31									0			-
	A13030	Excavate, lay and concrete duc	te			10-Jan-11	31									CH			1000
	A13040			260		A STATE OF THE STA	65/465								117	G.			-
		Excavate and construct OLE ba	1565			10-Jan-11	31	4444										4.4.4.4.	-
•	A13070	Place upper concrete and cure		709		08-Feb-11	25								-				
	A13080	Street Surface finishes		3	09-Feb-11	11-Feb-11	25										•		
	2nd half			34	14-Feb-11	31-Mar-11	25										3	I-Mar-11, 2	nd I
	1B-19F-TRCK-70	Set Track		12	07-Mar-11	22-Mar-11	25								•	•	0		and a
	A13410	Excavate box		6	14-Feb-11	21-Feb-11	25								-		0		
	A13420	Excavate, lay and concrete duc	ts	9	22-Feb-11	04-Mar-11	25	11111					TITT	TITTI	-		0	1111	
•	A13460	Place upper concrete and cure	£	12	10-Mar-11	25-Mar-11	25										0		-
	A13470	Street Surface finishes		3	28-Mar-11	30-Mar-11	25										1		244
	A13480	Remove fending and Traffic Ma	nagement	1	31-Mar-11	31-Mar-11	25										1		
i	eith Walk Railway Bridge ((S18)		0	18-May-10	18-May-10	433							11111	▼ 18-May-10	Leith Walk	Railway	Bridge (S18	3)
	26	Existing Structure		0		18-May-10	433	++		 					Existing Str	udure			
	Roadworks			264	10-Sep-08	30-Jul-09	244						30-Jul-09, F						i
	12160	Issue Construction Drawings		0	A	10-Sep-08													
	Balfour Street Ch 600-85	and the second s		528		A 24-Apr-09	244		•	issue		n Drawings	09 Ralfour S	treet Ch 600-	850				
						1 2													
	A12130	Establish Traffic Management 8	And the first three three terms are the same that the same			13-Mar-09	244												
	A12140	Excavate for new channel and le existing kerbs	kerb line / remove	10	16-Mar-09	27-Mar-09	244				- 0								
	A12150	Construct Kerb lines		13	19-Mar-09	06-Apr-09	244				- [-
	A12160	Reset Gullies		13	26-Mar-09	14-Арг-09	245				-								
	A12170	Surface new channel		6	15-Apr-09	22-Apr-09	245					0							
	A12180	Pavement Works		12	07-Apr-09	23-Арг-09	244				-	0							
	A12190	Street Lighting / Traffic Signals	/ Road Signs	7	07-Apr-09	16-Apr-09	249	1111			-	0	THIT	tititi	Titti	TIT		11111	
	A12200	Remove fending and Traffic Ma	nagement	1	24-Apr-09	24-Apr-09	244												
	Pilrig / Iona Street Ch 850	0-950		31	27-Apr-09	10-Jun-09	244					10	Jun-09, Pilrig	/ Iona Street	Ch 850-950				
	A12210	Establish Traffic Management 8	Temp. Fending	2	27-Apr-09	28-Apr-09	244												1000
	A12220	Excavate for new channel and I				13-May-09	244												200
	V. G.	existing kerbs			, p. 50							Till							1
7	Revision	Checked	Approved	Page 18 of 5	57 T		21 Racolino		Remaining Wo	nrt.	^ ^	V31 Pacalia	a Milaetona	y St	immar.				_
_		scs							Remaining vvo Critical Remai			Milestone	e milestorie	V St	urinitial y				

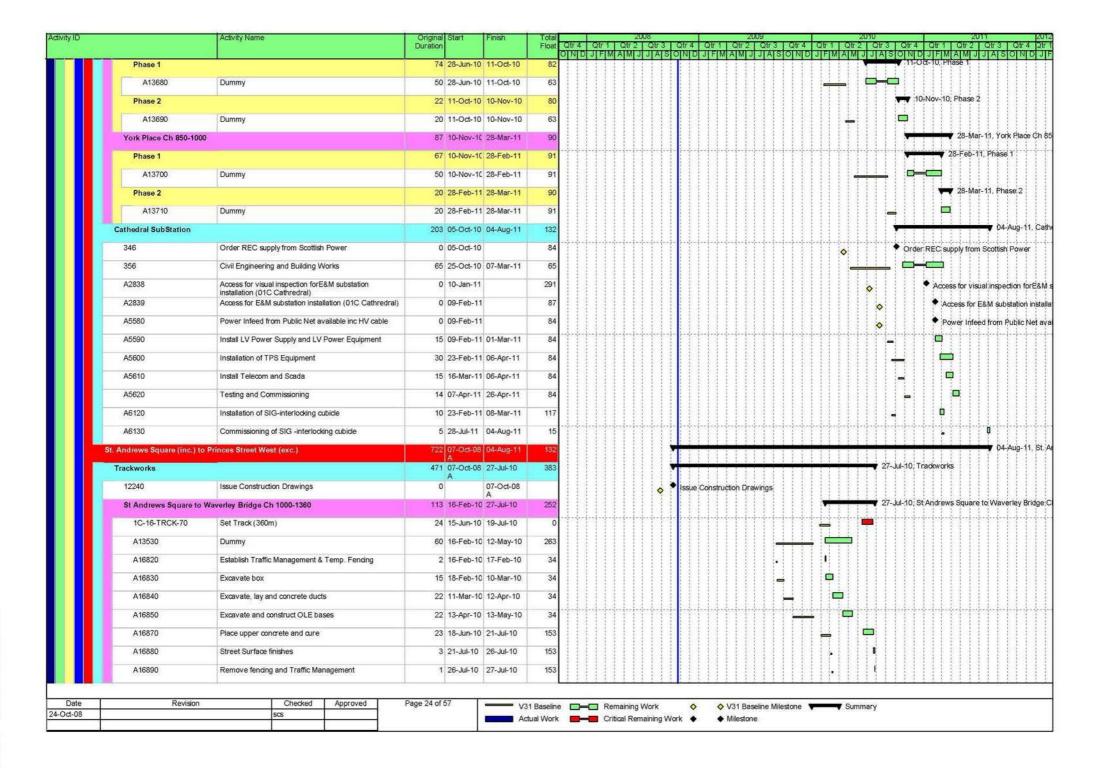


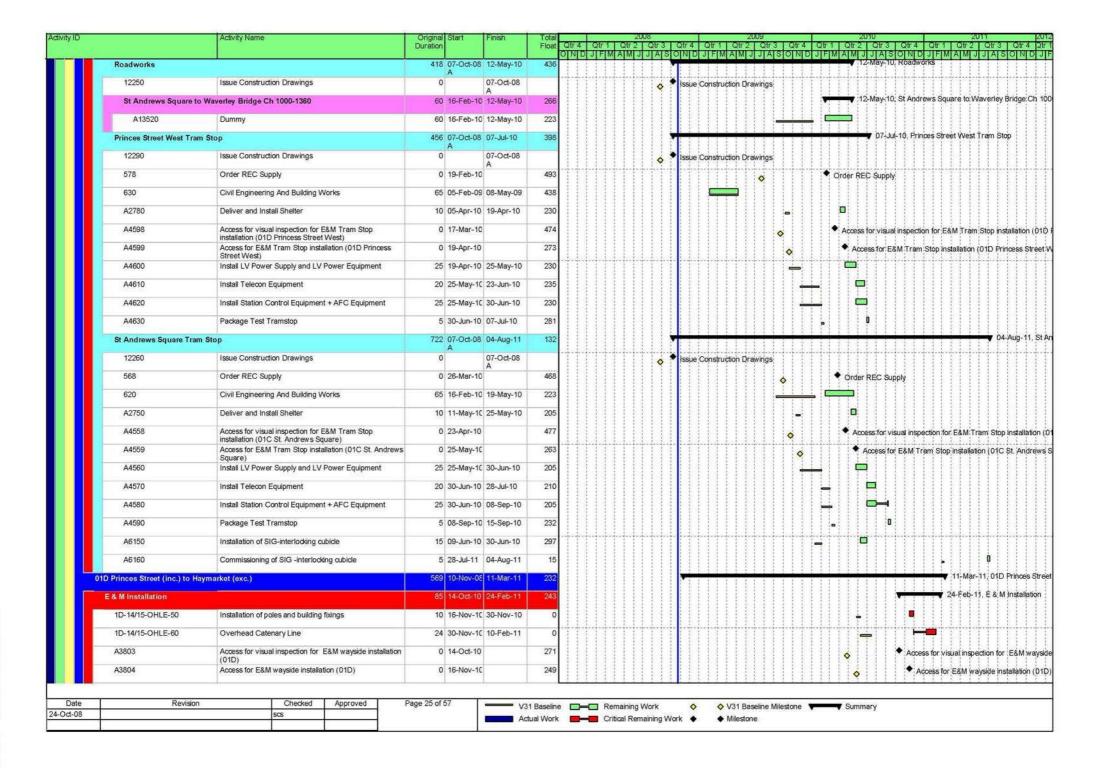
ID		Activity Name	Original Duration	Start	Finish		Qtr 4 Qt		2008 tr 2 Q		Qtr 4		2009 r 2 Q			Qtr 1		Qtr		tr 4				Qtr 3	Qtr	
	A3859	Access to cable pits for cable laying (01C)	0	02-Jun-11		138	INDIA	FMA	MIJIJ	ASO	ND.	FMA	WININ	AISIO	ND	JIFIN	IAIM	JJA	SO	N D	JEM			cess to		
▃	A3860	Install Electrical Cables	20	02-Jun-11	30-Jun-11	6	++++									-++-				- <u>¥-</u>	<u>.</u> -	+				
		a state of the sta				26																				
	A3870	Install Fibre Optic Cables			30-Jun-11	26														T	7					
	A3880	Install Signalling Wayside Equipment	20	30-Jun-11	28-Jul-11	6																	-	11		
	McDonald Road (inc.) to Picar	dy Place (exc.)	638	07-Oct-08 A	05-Apr-11	216					1	1111	111	11			111		111			₹ 05	-Apr-	11. Mc	Donal	d
	McDonald Road Tram Stop		625	07-Oct-08	17-Mar-11	229				1		ПП		11		TT						17-1	Mar-1	1, McD	Jonald	į
	12180	Issue Construction Drawings	0		07-Oct-08		1111	111	111	•	Issue C	onstruction	Drawing	s	П	11	m	TT	m	TT	m	TT		Ħ	m	7
	548	Order REC Supply	0	23-Sep-10		343											\Q		• 0	rder RE	EC Sup	pply				
	600	Civil Engineering And Building Works	65	11-Jun-10	15-Oct-10	138										_			-							
	A2660	Deliver and Install Shelter	10	08-Nov-10	22-Nov-10	99																				
	A2668	Access for visual inspection for E&M Tram Stop		21-Oct-10		348														Access	forvie	cual is	nenact	tion for	FERM	
	A2669	installation (01C McDonald Road) Access for E&M Tram Stop installation (01C McDona				129	4444	444			علىلىد	4444	44			44-	0	44.						1.1	1	
	1,400,000,000	Road)		22-Nov-10		90000												•		Acc	1-1	ESN	rran	Stop	instal	414
	A2670	Install LV Power Supply and LV Power Equipment	25	22-Nov-10	03-Feb-11	99												-	•	-	1 1					-
	A2673	Install Telecon Equipment	20	03-Feb-11	03-Mar-11	109													-							-
	A2675	Install Station Control Equipment + AFC Equipment	25	03-Feb-11	1 10-Mar-11	99													-							
	A2680	Package Test Tramstop	5	10-Mar-11	17-Mar-11	99															0					
	Trackworks	1.	638	07-Oct-08	05-Apr-11	29	tttt	TH	TH	٧			111	1.1		11		11	1 1 1		11	₩ 05	Apr-	11, Tra	accwo	jc
	12190	Issue Construction Drawings	0	A	07-Oct-08			$\Pi\Pi$			Issue C	onstruction	Drawing	ıs			Ш									-
	Leith Walk Ch 0-375	100	118	11-Jun-10	A 24-Nov-10	42												÷		24-	Nov-1	0, Le	ith VVa	alk Ch	0-375	5
	1st Half (Dummy)		65	11-Jun-10	13-Sep-10	25											,	4	13	Sep-10), 1st F	Half ([Dumm	y)		-
	1C-18A-TRCK-70	Set Track (375m)	3477		30-Jul-10	25																				
	A16190	Establish Traffic Management & Temp. Fencing			15-Jun-10	28	1111	441		44.			444			44	EL.				44	<u> </u>	11.	- -		-
	0.0000000000000000000000000000000000000				A RECOVERED TO SEC	0.000										1		0								
	A16200	Excavate box			25-Jun-10	28										-		71				П				
	A16210	Excavate, lay and concrete ducts	11	25-Jun-10	12-Jul-10	28										1	1	0								-
	A16220	Excavate and construct OLE bases	11	25-Jun-10	12-Jul-10	28							111			1	•									
	A16240	Place upper concrete and cure	14	15-Jul-10	08-Sep-10	25											-	-	4							
	A16250	Street Surface finishes	3	08-Sep-10	13-Sep-10	25	11111	1111				1-1-1-1	111	1					0	11	11		1		****	1
	2nd Half (Dummy)		53	13-Sep-10	24-Nov-10	42													•	24-	Nov-1	10, 2n	d Half	(Dum	my)	0
	1C-18B-TRCK-70	Set Track (375m)	14	22-Oct-10	15-Nov-10	14													C							
	A16330	Excavate box	8	13-Sep-10	23-Sep-10	25													0							-
	A16340	Excavate, lay and concrete ducts		(2)	08-Oct-10	25													0							
		4					1-1-1-1	444				4444	444					44.	111	-	ļ.ļ					
	A16360	Place upper concrete and cure	7.00		18-Nov-10	25								11				-	111	11		H				
	A16370	Street Surface finishes			23-Nov-10	25												*		0						-
	A16380	Remove fending and Traffic Management	1	23-Nov-10	24-Nov-10	25												ŀ		I I				Ш		
Date	Revision	Checked Approved	Page 20 of	57	V3	31 Baseline		Remair	ning Wor	rk	\$	♦ V31	Baseline	Milest	one 🔻		▼ Sum	mary						_	_	-
ct-08		scs										♦ Mile					100000	100								

		Activity Name	Original Start Duration	Finish	Flo	oat 2008 2009 2010 2011 Oat Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4
ī	London Road Ch 375-45	0	82 24-Nov-1	C 05-Apr-11		OND JEMAM JJASOND JEMAM JJASOND JEMAM JJASOND JEMAM JJASOND JEMAM JJASOND
	1st Half (Dummy)		34 24-Nov-1	C 26-Jan-11	4	61 ▼ → 26-Jan-11, 1st Half (Dummy
п	1C-18C-TRCK-70	Set Track (300m)	4 12-Jan-1	1 18-Jan-11	1	25
П	A16260	Establish Traffic Management & Temp. Fencing	2 24-Nov-1	C 26-Nov-10		25 . I
ш	A16270	Excavate box	2 26-Nov-1	C 30-Nov-10		25
п	A16280	Excavate, lay and concrete ducts	3 30-Nov-1	C 12-Jan-11	1	25
п	A16290	Excavate and construct OLE bases	3 30-Nov-1	C 12-Jan-11	1	25
п	A16310	Place upper concrete and cure	4 17-Jan-1	1 21-Jan-11	1 3	61
ш	A16320	Street Surface finishes	3 21-Jan-1	1 26-Jan-11		61 <u> </u>
ш	2nd Half (Dummy)		48 26-Jan-1	1 05-Apr-11		29 05-Apr-11, 2nd Half (
п	1C-18D-TRCK-70	Set Track	4 18-Mar-1	1 24-Mar-11		29 . D
п	A16390	Excavate box	2 26-Jan-1	1 28-Jan-11		61 , E
ш	A16400	Excavate, lay and concrete ducts	3 28-Jan-1	1 02-Feb-11	3	61
ш	A16420	Place upper concrete and cure	4 23-Mar-1	1 29-Mar-11		29
ш	A16430	Street Surface finishes	3 29-Mar-1	1 04-Apr-11	- 3	29 . 0
п	A16440	Remove fending and Traffic Management	1 04-Apr-1	1 05-Apr-11		29
г	Roadworks		221 07-Oct-08	3 21-Jul-09	2	245 21-Jul-09, Roadworks
I۲	12200	Issue Construction Drawings	0 A	07-Oct-08		issue Construction Drawings:
	Leith Walk Ch 0-375	700	94 31-Oct-08	A 3 26-Mar-09	2	245 26-Mar-09, Lieith Walk Ch 0-375
п	A13540	Dummy	80 31-Oct-08	3 26-Mar-09	21	207
п	London Road Ch 375-45	0	80 27-Mar-0	9 21-Jul-09	2	245 21-Jul-09, Lohdon Road Ch 375-450
п	A13570	Dummy	80 27-Mar-0	9 21-Jul-09	2	207
+	Picardy Place (inc.) to St. And	rews Square (exc.)	645 15-Dec-0	8 04-Aug-11	1	132 ▼ 04-Aug-1
г	Trackworks	*** ***	557 15-Dec-0	8 29-Mar-11		70 29-Mai-1-1, Trackwork
ı	12210	Issue Construction Drawings	0	15-Dec-08*		0 ssué Construction Drawings
н	Picardy Place Ch 450-700	prior of the control	105 19-Oct-10	29-Mar-11		61 29-Mair-11, Picardy Pla
п	Phase 3		57 19-Oct-10	20-Jan-11	1 8	37 20-Jan-11; Phase 3
п	1st Half (Dummy)		19 25-Oct-10	19-Nov-10		43 T9-Nov-10, fst Haif (Dummy)
п	1C-17A-TRCK-70	Set Track (100m)	4 05-Nov-1	C 11-Nov-10		
	A16450	Establish Traffic Management & Temp. Fencing	2 25-Oct-10	27-Oct-10		<u>o</u>
	A16460	Excavate box	2 27-Oct-10	29-Oct-10		o
	A16470	Excavate, lay and concrete ducts	3 29-Oct-10	0 05-Nov-10		0
	A16480	Excavate and construct OLE bases	3 29-Oct-10	05-Nov-10		0
	A16500	Place upper concrete and cure	4 10-Nov-1	C 16-Nov-10	3	26 - 0
Т	Revision	Checked Approved	Page 21 of 57		/31 Race	eline Remaining Work ♦ V31 Baseline Milestone Summary
	and the second of the second o	scs	(X)			/ork Critical Remaining Work Milestone

		Activity Name	Original Duration	Start	Finish			r 1 Qtr 2													tr 4
П	A16510	Street Surface finishes	3	16-Nov-10	19-Nov-10	26	NDJ	FIM AIM	JAN	JINIO	J F IMI /	(M) J J J	ISIOIN	DIST	MIAIM	JJAS	T	J F IVI	AIM JI	ASO	IN
	2nd Half (Dummy)		57	19-Oct-10	20-Jan-11	37											*	▼ 20-Je	ın-11, 2nd	Half (Dum	nmi
	1C-17B-TRCK-69	Set Track Demob 1A / Remob 1C	3	19-Oct-10	22-Oct-10	50											1				-
	1C-17B-TRCK-70	Set Track	4	26-Nov-10	11-Jan-11	26	++++	++++	++++		+++	++++	+++	HH	+++	<u>.</u> -	-	4	+++	++++	
П	A16520	Excavate box	2	19-Nov-10	23-Nov-10	26					Ш						0				-
П	A16530	Excavate, lay and concrete ducts	3	23-Nov-10	26-Nov-10	26															
П	A16550	Place upper concrete and cure			14-Jan-11	37												0			
П	A16560	Street Surface finishes			19-Jan-11	37															-
П	A16570	Remove fending and Traffic Management	223		20-Jan-11	37	4-4-4-4	4444	+		444		ļļļ			444			444		
	Phase 4	Nemove lending and Traine management			29-Mar-11	61													29-Mar-	11. Phase	4
п		12.72 27.72 28 27.72	200	A CONTRACTOR OF THE PARTY OF TH	C = 340 (100 (200 HeV 20 10)	0.000															
	1C-17C-TRCK-69	Set Track (150m) Demob 1A / Remob 1C			1 24-Feb-11	29										17					-
•	1C-17C-TRCK-70	Set Track (150m)			1 18-Mar-11	29										-					-
	A16580	Establish Traffic Management & Temp. Fencing	2	31-Jan-11	02-Feb-11	30										•					-
	A16590	Excavate box	6	02-Feb-11	1 10-Feb-11	30										•		0			
	A16600	Excavate, lay and concrete ducts	9	10-Feb-11	1 23-Feb-11	30					Ш					-		0			
	A16610	Excavate and construct OLE bases	9	10-Feb-11	1 23-Feb-11	30					Ш					-		0			1
	A16630	Place upper concrete and cure	16	01-Mar-11	1 23-Mar-11	61										-					-
п	A16640	Street Surface finishes	3	23-Mar-11	1 28-Mar-11	61					Ш										-
П	A16650	Remove fending and Traffic Management	1	28-Mar-11	1 29-Mar-11	61	TTI	TH	1111		ttt	tttt	hh	m	TH	1111	1	1		iiii	1
	York Place Ch 700-850	1	83	28-Jun-10	25-Oct-10	134										•	25-0	oct-10, Y	ork Place	Ch 700-850	0
	1C-17D-TRCK-69	Track Laying Demob 5A / Remob 1C	3	24-Sep-10	29-Sep-10	15															-
	1C-17D-TRCK-70	Set Track (150m)	11	29-Sep-10	14-Oct-10	15											•				
	A13660	Dummy	44	28-Jun-10	01-Oct-10	69															
	A16660	Establish Traffic Management & Temp. Fending	2	20-Jul-10	22-Jul-10	118	titi	titi	ttti	rti	+++	ttt	H	itti		1		htt	TH	tti	Ť
10	A16670	Excavate box	6	22-Jul-10	30-Jul-10	118		1111								0					-
	A16680	Excavate, lay and concrete ducts	9	30-Jul-10	16-Sep-10	118										_					
	A16690	Excavate and construct OLE bases	9	16-Sep-10	29-Sep-10	118									_	0					-
	A16710	Place upper concrete and cure	11	04-Oct-10	19-Oct-10	115									_		80				00000
	A16720	Street Surface finishes	3	19-Oct-10	22-Oct-10	115	++-	++++	++++		+++						1			++++	-
2	A16730	Remove fending and Traffic Management	200		25-Oct-10	115											1				
	York Place Ch 850-1000	2 2		NAME OF TAXABLE PARTY.	11-Mar-11	82											_		11-Mar-11	York Plac	œ
9	1C-17E-TRCK-69	Set Track (150m) Demob 5C / Remob 1C	1000	PARTY POLYMENT	1 15-Feb-11	16															-
	1C-17E-TRCK-70	Set Track (150m)		Livide Store II. Times	1 02-Mar-11	16															-
		and the first of the second se					1444	444.	1411	1.1.	444	1-1-1-1	ļļļ	- - -	44.	44.		_	- -	<u> </u>	-
	A13670	Dummy	44	10-NOV-10	18-Feb-11	97			Ш						117			T			-
T	Revision	Checked Approved	Page 22 of 5	57 T		1 Racolina		Damainina	Mork	^	A 1/	21 Basslins	Mileston		Ct	manı					_
	11 mm 1 mm 1 f	scs	3					Remaining Critical Re		♦		31 Baseline ilestone	willestone		▼ Sum	птагу					



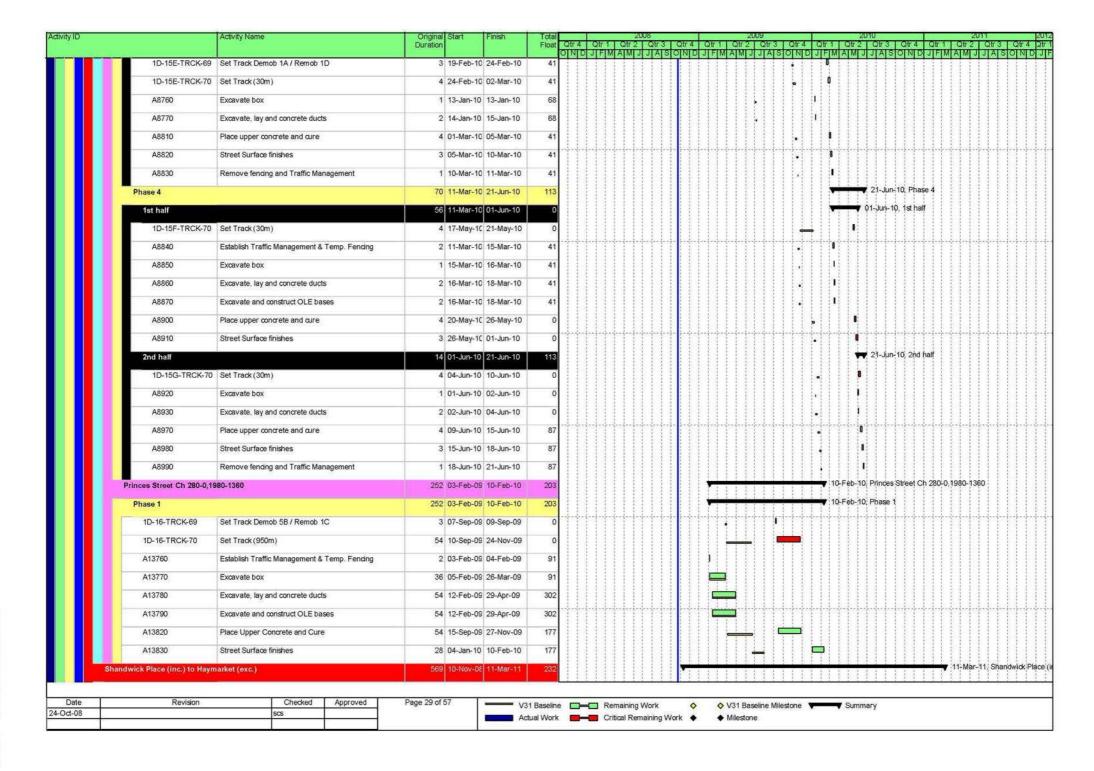




	Activity Name	Original Duration	Start	Finish	Total Float		Qtr 1					Qtr 1					4 (201 r 2	Qtr 3			Qtr 1			Qtr 3		
A3818	Access for visual inspection to cable pits for cable laying	0	15-Nov-10		251	омр	JIFIN	MAIN	JJ	ASC	DINIE	JE	MAIN	N J	AS	ON	D	FIN			JA			ess for					
3819	(01D) Access to cable pits for cable laying (01D)		21-Jan-11		229									П						0				11			11		
						44		<u></u>					44.	ļ.,			Ų.	ļ.ļ.	Ш	0	. .			Acc	ess to	cable	pits	or car	1D
820	Install Electrical Cables			08-Feb-11	113		11							Ш						1			11	TI					
3830	Install Fibre Optic Cables	12	21-Jan-11	08-Feb-11	125					П										-	11	1							
3840	Install Signalling Wayside Equipment	12	08-Feb-11	24-Feb-11	113						1										-								
nces Street West (inc.) to	Shadwick Place (exc.)	449	10-Nov-08	09-Sep-10	221						7							П			11	7 09	Sep-10), Prin	ces S	treet V	Vest (inc.) 1	1
Roadworks		449	10-Nov-08	09-Sep-10	221		-				-		11	11								▼ 09-	Sep-10), Roa	dworl	ks	11		-
12270	Issue Construction Drawings	.0		10-Nov-08*	0	777	11	TT	♦	11	• Is	sue Co	structi	on Dra	wings		m	11		11	T		11	TT	11	11	11		-
Lothian Road Junction	n Ch 440-280	420	05-Jan-09	09-Sep-10	221							•	Ħ	H	_	+	H	Ħ		Ħ	+	▼ 09-	Sep-10), Loth	ian R	oad J	unction	n Ch	000000
Phase 1		21	05-Jan-09	02-Feb-09	91							-	2-Feb-	09. Ph	ase 1														
A8250	Establish Traffic Management & Temp. Fencing	2	05-Jan-09	06-Jan-09	91							1																	
A8260	Take down permanent traffic signs / signals	5	07-Jan-09	13-Jan-09	91							0		Ш															
A8270	Excavate traffic islands	3	14-Jan-09	16-Jan-09	91	444		+		- - -	ļ.,	-	++	 - -			Ų.		+-	- -	-}-}		++		+	++-	++		
A8280	Subbase	200		20-Jan-09	91																			11			11		
A8290	3 100 100 110 110 110 110 110 110 110 11			23-Jan-09	91																								
10 (40 (40 (40 (40 (40 (40 (40 (40 (40 (4	Temporary surfacing				170,700																								
A8300	Temporary Traffic signals / signs / white lines			30-Jan-09	91						40.00									11		-		11					
A8310	Remove fending and Traffic Management	100	NAME OF THE PROPERTY.	02-Feb-09	91		11	LL		11.			Ш	Ш				Ш		Ш		Ll	i.i	11.	li.	II.	LL		-
Phase 2		155	03-Feb-09	14-Sep-09	33									П	7	14-S	ep-09	Pha	se 2										
A8490	Establish Traffic Management & Temp. Fencing	2	03-Feb-09	04-Feb-09	148							1																	
A8500	Excavate North kerbline	2	05-Feb-09	06-Feb-09	148							1																	
A8510	Relay North kerbs	5	06-Feb-09	12-Feb-09	148							0		П															
A8520	Reset Gullies	5	09-Feb-09	13-Feb-09	148					Н											П								
A8530	Plane out wearing course	2	16-Feb-09	17-Feb-09	148	111	-1-1-	+	++	++	-4-	11	11	H				1-	+	11	++		++		11	- -	11	11	1
A8540	Resurface road	3	07-Sep-09	10-Sep-09	33										0									11	H				
A8550	Pavement (1m strip)	5	13-Feb-09	19-Feb-09	150		11					0							11					11	1			-	
A8560	White Lines			11-Sep-09	33									П	1			11									11		
A8570	The second section of the second seco			23-Feb-09	148							0	П	Ш															
100000000	Street Lighting / Road signs	101			1/03/59	444		.		. .			44	Щ.				ļļ	1.1	44					1	J.J.	ļ.,		
A8670	Remove fending and Traffic Management		6.5	14-Sep-09	33										Ľ	- 00	2	, De	Ш										
Phase 3		14	14-Sep-09	02-Oct-09	33									Ш	ľ	7 02-	Uci-L	19, PT	ase	3									
A8580	Establish Traffic Management & Temp. Fencing	2	14-Sep-09	16-Sep-09	33								1		1				П								11		
A8590	Excavate South kerbline	2	16-Sep-09	18-Sep-09	33		-								1				11	1				11			1		
A8600	Relay South kerbs	4	17-Sep-09	23-Sep-09	33										1			1			1	1 1		11			11		-
A8610	Reset Gullies	4	18-Sep-09	24-Sep-09	33	711		77	m	11	1	111		IT	0		1	17	11	11	11		11	11	11	11	11	11	-
A8620	Plane out wearing course	1	24-Sep-09	25-Sep-09	33						-				1														
Revision	Checked Approved	Page 26 of 5	57 T		1 Danslin			omoin'	a Ma-	v		. 19	1/24	Daroli	o 640-	eten-				inara c	D/	140		100					
	scs				31 Baseline ctual Work				Acres 1		0		V31 Miles	baselin	e mile	stone			V 5	ıınıma	y								

		Activity Name	Original 3 Duration	Start	Finish	Total Float	Qtr 4	Qtr	1 0	200 2tr 2	Qtr 3	Qtr	4 (2tr 1	Qtr	2009 2 Q	tr 3	Qtr	4	Qtr	I C	-	U10	tr 3	Qtr	4 (Qtr 1	Qtr	2 01	Qtr 3
	A8630	Resurface road		25-Sep-09 3	30-Sep-09	33					JAS											M .	J J	AS	ON	DJ	FM	AIN	J	A
	A8640	- 2000-2000-2000-2000-2000-2000-2000-20				35											n													
		Pavement (1m strip)		23-Sep-09 2									Н		•		1							1						-
	A8650	White Lines	1 ;	30-Sep-09 0	01-Oct-09	33									•		Ш										Ш		Ш	-
	A8660	Street Lighting / Road signs	6 :	23-Sep-09 0	01-Oct-09	33									•		0										П			
	A8665	Remove fencing and Traffic Management	1 (01-Oct-09 0	02-Oct-09	33									,		!						П							
	Phase 4a	- 17	57 :	21-Jun-10 0	09-Sep-10	221														11		1	•	~	09-Se	p-10.	Phas	e 4a		-
I	A9000	Establish Traffic Management & Temp. Fending	2 :	21-Jun-10 2	23-Jun-10	203																	1							****
	A9010	Excavat for new kerb lines & channel	4 :	23-Jun-10 2	29-Jun-10	203																	0	+						
	A9020	Lay new kerbs	4 :	24-Jun-10 3	30-Jun-10	203	TT:	11		11			tt		1	h	-1-1	-			47		0			it	h		1	-
	A9030	Reset Gullies	4 :	25-Jun-10 0	01-Jul-10	208																	o							
	A9040	Surface new channels	4 (01-Jul-10 0	07-Jul-10	208																	1			П				
	A9050	Pavement	25	30-Jun-10 0	08-Sep-10	203							11											4						
	A9060	Rebuild Traffic Islands		07-Jul-10 2		208																		1						
	A9080	Street Lighting / Road signs	188	21-Jul-10 2		208	44	ļi	ļ.,			ļ., ļ.,	Ļ.	ļļi					H	17			0			ļ. ļ.	ļļ	ļ.,	ļļ.	-
	A9130	Remove fending and Traffic Management		08-Sep-10 0		203											11			1				1						-
Ш	10.001.0120	The same of the sa			STEWNSHOP STORE	****							11				11				15 E	ah 1	n Pr	inces	Stree	t Ch	280-0	1080	-1360	-
-	Princes Street Ch 280-	-0,1980-1360		03-Feb-09 1		15										27.4		Ma	dh C	11	11			11003	Oil CC		1	1300	1300	-
	North Channel		79 (03-Feb-09 2	27-May-09	188									- 5	27-N	ay-us	, NO	rui C	nan	lea		П				Ш			-
	A13840	Establish Traffic Management & Temp. Fending	2 (03-Feb-09 0	04-Feb-09	121							Ы.				Ш										Ш			
	A13850	Excavate North kerbline	19 (05-Feb-09 0	03-Mar-09	121																T								
	A13860	Relay North kerbs	48	12-Feb-09 2	21-Apr-09	121																	П							-
	A13870	Reset Gullies	48	19-Feb-09 2	28-Apr-09	121									=												Ш			SAME.
	A13880	Plane out wearing course	10	29-Apr-09 1	13-May-09	121																					Н			-
	A13890	Resurface road	7	14-May-09 2	22-May-09	121									0								H							-
	A13900	Pavement (1m strip)	48	19-Feb-09 2	28-Apr-09	168	Ħ				11		H				1	+	Ť	11	11	1	Ħ	1		h	H		lt	A see
	A13910	White Lines	1 2	26-May-09 2	26-May-09	150							1			Ш				1										
	A13920	Street Lighting / Road signs	5 :	22-Apr-09 2	28-Apr-09	168									0		11													
	A13930	Remove fending and Traffic Management	1 1	27-May-09 2	27-May-09	150																								-
Ţ	South Channel	The state of the s	(94907455)	03-Feb-09 1		15							11			Ш	4	į		4	15-Fi	eb-10	0, Sp	outh C	hann	el				
Ī	A13940	Establish Traffic Management & Temp. Fending		03-Feb-09 0		128						ļ.,							ļļ.	-			14							
	A13950	Excavate South kerbline	700-10	05-Feb-09 0	200000000000000000000000000000000000000	128																								
																								-						
	A13960	Relay South kerbs		12-Feb-09 2		128							11					-		1		-								
	A13970	Reset Gullies		19-Feb-09 2	Section States	128								-	-			-		1		-		-						-
	A13980	Plane out wearing course	10	29-Apr-09 1	13-May-09	128																								-
	A13990	Resurface road	30	25-Nov-09 0	09-Feb-10	15										H											П			-
	Revision	Checked Approved	Page 27 of 5	7 1-	100	4 Dacette			Dan	inin - t	Mort-		^		124) and the	. Agri-	et a					225						_	_
	1,01,000	scs		1		1 Baseline tual Work							\Q			Baseline tone	: IVIIIE	sione			V 5	umn	nary							

	Activity Name		Original Duration	olari	Finish												tr 1 Qtr						
A14000	Pavement (1m strip)		48	19-Feb-09	28-Apr-09	169	ממוכ	JEM	AM	J J A	SON	DJF	MA	N J J	ASOI	N D J	FMAN	11111	ASO	ND.	IF M	MJ	F
A14010	White Lines		1	10-Feb-10	10-Feb-10	15										Ш							
A14020	Street Lighting / Road signs		00040		28-Apr-09	169																	1
A14030	Remove fending and Traffic Man	agement	3	11-Feb-10	15-Feb-10	15							Ш		-		•		Ш		Ш		1
kworks (710m)			392	10-Nov-08	21-Jun-10	113					1			111	111	111	Hi	7. 21	-Jun-10	Track	orks (7	Om)	
2280	Issue Construction Drawings		0		10-Nov-08*	0				0	•	ssue Co	nstruct	ion Draw	rings								
othian Road Junction Ch	1 440-280		342	03-Feb-09	21-Jun-10	113						-		111	111	111	111	2	-Jun-10	Lothia	Road .	unctio	×
Phase 2			151	03-Feb-09	08-Sep-09	304						-	++	+++	08-9	ep-09,	Phase 2						
1st half			111	03-Feb-09	13-Jul-09	11						-	H	—	3-Jul-09	1st half							
1D-15B-TRCK-69	Set Track Demob 5B / Remob 10	D	3	24-Jun-09	29-Jun-09	11	444	44.		+++	4.			0	+++	+++		+++	444		 - - -	-	
1D-15B-TRCK-70		7 T	200	29-Jun-09		11																П	
	/h /h	*****************************											•									П	
A8320	Establish Traffic Management &	remp. Fenang			04-Feb-09	105																	
A8330	Excavate box		2	05-Feb-09	06-Feb-09	105						1											1000
A8340	Excavate, lay and concrete ducts		3	09-Feb-09	11-Feb-09	105						1											
A8350	Excavate and construct OLE bas	es	3	09-Feb-09	11-Feb-09	105	TT	TIT	$\Pi\Pi$	TIT		I		TIT	TIT	TTI	TIT				TIT	П	1
A8380	Place upper concrete and cure		4	02-Jul-09	08-Jul-09	11								0							Ш		
A8390	Street Surface finishes		3	08-Jul-09	13-Jul-09	11											111						
2nd half			40	13-Jul-09	08-Sep-09	304								-	08-5	ep-09,	2nd half						
1D-15C-TRCK-70	Set Track (100m)			20-Jul-09		11								0									
							444			444				441	444		444			Li.i.	1.1.1.		
A8410	Excavate box			**************************************	15-Jul-09	11							*										
A8420	Excavate, lay and concrete ducts	k	3	15-Jul-09	20-Jul-09	-11							•										
A8460	Place upper concrete and cure		4	23-Jul-09	29-Jul-09	33							•	0									
A8470	Street Surface finishes		3	29-Jul-09	07-Sep-09	33								1	7								
A8480	Remove fending and Traffic Man	agement	1	07-Sep-09	08-Sep-09	264							1		1	111							3
Phase 3a			103	02-Oct-09	11-Mar-10	41	11	11		+++		- - -	+++	ttt	+	+++	11-N	1ar-10	Phase 3	a	HH	H	
1st half			62	02-Oct-09	12-Jan-10	68									-		12-Jan-10	1st ha	ar i				
1D-15D-TRCK-70	Set Track (30m)				04-Jan-10	0										I							
A8680	Establish Traffic Management &	Temp Fending			06-Oct-09	33																	
		romp. rending																					
A8690	Excavate box				07-Oct-09	33				اللل					111						Ш		
A8700	Excavate, lay and concrete ducts	k:	2	07-Oct-09	09-Oct-09	33								1									
A8710	Excavate and construct OLE bas	es	2	07-Oct-09	09-Oct-09	33								•	1								
A8740	Place upper concrete and cure		4	04-Jan-10	07-Jan-10	68								٠	111	1	111					1	1
A8750	Street Surface finishes		3	08-Jan-10	12-Jan-10	68															Ш		
2nd half			41	13-Jan-10	11-Mar-10	41										-	11-N	lar-10	2nd half				1
										111		11		111	111			111	111		111		-
Revision	Checked	Approved	Page 28 of 5	7	- V/2	31 Baseline		☐ Re	mainin	n Work	8	>	♦ √31	Baseline	Mileston		▼ Su	mmarv				_	-
	scs	0-39%	953							maining				- COCHITE	TIMOGUII		• 00	ar y					



	Activity Name	Original Duration	Start	Finish	Floa	Qtr 4	Otr 1	Qtr 2	Otr:	Otr	4 C	tr 1	Otr	2 Qt	r3 T	Otr 4	0	tr 1	Otr	2 1 0	r 3 T	Otr 4	Otr	110	201	Qtr 3	56 E
		The state of the s			2,855	OND					DJ	FM	AIM	JJI								NIC	JIF	MA	MJ		SC
Shandwick Place Tram Sto	P	477	10-Nov-08	20-Oct-10	32															1		20-	JCI-10	, orial	IGWICK	Flace	116
12300	Issue Construction Drawings	0		10-Nov-08*	1				\	•	Issue	Const	ructio	n Draw	ings						H	H				T	-
588	Order REC Supply	0	04-May-10		44											•			•	Order I	REC S	upply					
640	Civil Engineering And Building Works	65	18-Feb-10	21-May-10	210				Ш						14		_				11						
A2810	Deliver and Install Shelter	10	16-Jun-10	30-Jun-10	17										11	1	-			0							
A4638	Access for visual inspection for E&M Tram Stop	0	31-May-10		45												0			Acce	ss for	visual	inspec	tion fo	E&M	Tram :	S
A4639	installation (01D Shadwick Place) Access for E&M Tram Stop installation (01D Shadwick	0	30-Jun-10		233	HH	H	++	11	+	H	H	+	H	++	+	Ž	>		1.1	1.1.	1	1.1.1		-1-1	ation (C	
A4640	Place) Install LV Power Supply and LV Power Equipment	25	30-Jun-10	08-Sep-10	175													_		-	-						
A4650	Install Telecon Equipment	20	08-Sep-10	06-Oct-10	18													_									
A4660	Install Station Control Equipment + AFC Equipment	25	08-Sep-10	13-Oct-10	179													_	_								
A4670	Package Test Tramstop	5	13-Oct-10	20-Oct-10	179																1	0			Ш		
Roadworks	70	569	10-Nov-08	11-Mar-11	125	444	4-4-4	-				4	4.	4	44	4.4	4	4		44	dal.			V 11	Mar-1	1, Roa	ac
12310	Issue Construction Drawings	0		10-Nov-08*										Death	Ш												
500000	CONTROL CONTRO		NAME OF TAXABLE PARTY OF TAXABLE PARTY.	SEASON EV.					\		Issue	Const	ructio	n Draw	ings						15 101	10 H	aymark	ot Ch	1250	1126	
Haymarket Ch 1250-1125		381	05-Jan-09	15-Jul-10	26																13-3ur	10, 116	ayınlar	iet Gri	1200-	120	
Phase 1		17	05-Jan-09	27-Jan-09	10							27-0	an-0	, Phas	e 1												
A6390	Establish Traffic Management & Temp. Fencing	2	05-Jan-09	06-Jan-09	10						1				П						11					П	
A6400	Remove island surfacing and exc. to formation	4	07-Jan-09	12-Jan-09	10						0	П		H	П	H		П			TT	H				TT	
A6410	Construct Kerb lines	2	13-Jan-09	14-Jan-09	108						1									П							
A6420	Move Gullies	2	15-Jan-09	16-Jan-09	10						1																
A6430	Sub base	2	19-Jan-09	20-Jan-09	10						1																
A6440	Roadbase/base course/wearing course/temp ramps	3	21-Jan-09	23-Jan-09	10						1				П												
A6450	Pavement Works	5	15-Jan-09	21-Jan-09	10		Ш				0		T	Ħ	Ħ					11	11	T				11	
A6460	White Lines	1	26-Jan-09	26-Jan-09	10						1					-											
A6470	Street Lighting / Traffic Signals / Road Signs	5	15-Jan-09	21-Jan-09	10						0											-					
A6475	Remove fending and Traffic Management	1	27-Jan-09	27-Jan-09	10						1			Н												11	
Phase 2		.21	28-Jan-09	25-Feb-09	10							2	5-Fet	-09, PI	nase 2	2											
A6480	Establish Traffic Management & Temp. Fending	2	28-Jan-09	29-Jan-09	10						1			+++	++	-		rak sa				11				-	
A6490	Excavate for new channel and kerb line / remove	2	30-Jan-09	02-Feb-09	100																						
A6500	existing kerbs Construct Kerb lines	2	03-Feb-09	04-Feb-09	10							ı															
A6510	Reset Gullies	1	05-Feb-09	05-Feb-09	10							1															
A6520	Surface new channel	1	06-Feb-09	06-Feb-09	10										******												
A6540	Pavement Works	15	05-Feb-09	25-Feb-09	10						i i			++	++	11						++	1			11	
A6550	White Lines	1	09-Feb-09	09-Feb-09	10							1	1		11	-					11						
A6560	Street Lighting / Traffic Signals / Road Signs	3	05-Feb-09	09-Feb-09	10							0															
Poulder	Charlest I Approved I	Page 20 cf 5	57		1000 ENG 3107-11-						.000		uca.		or of				and the same of	NAME OF THE OWNER, OWNE							_
Revision	Checked Approved	Page 30 of 5	31					The second second			\Q	01	/31 E	aseline	Miles	tone			Sum	mary							

		Activity Name	Original Start Duration	Finish	Float		Qtr 1 Qtr 2 Qtr 3 Qtr 4		Qtr 1 Qtr 2 Qtr 3	3 0	3
	A6565	Remove fending and Traffic Management	1 12-Feb	-09 12-Feb-09	105	ONDIJIFIMIAIMIJIJAISIONIDI	J F M A M J J A S O N I	DIJEMAMIJJASOND	JEMAM JUA	0	
	Phase 4a		22 14-Sep	-09 14-Oct-09	11		14-0	Oct-09, Phase 4a			
	A6730	Establish Traffic Management & Temp. Fencing	2 14-Sep	-09 16-Sep-09	11						- 100
	A6740	Remove island surfacing and exc. to formation	5 16-Sep	-09 23-Sep-09	11		. 0				
	A6750	Construct Kerb lines	4 23-Sep	-09 29-Sep-09	11		. B				
	A6760	Move Gullies	2 29-Sep	-09 01-Oct-09	11		1111.111111				
	A6770	Sub base	3 01-Oct	-09 06-Oct-09	11						
	A6775	Plane off wearing course	1 06-Oct	-09 07-Oct-09	11	+++++++++++++++++++++++++++++++++++++		*****			
	A6780	Roadbase/base course/wearing course/temp ramps	3 07-Oct	-09 12-Oct-09	11						
	A6790	Pavement Works	6 29-Sep	-09 07-Oct-09	15		_ 0				
	A6800	White Lines	1 12-Oct	-09 13-Oct-09	11						
	A6810	Street Lighting / Traffic Signals / Road Signs		-09 08-Oct-09			0				
	A6815	Remove fending and Traffic Management		-09 14-Oct-09		***		+++++++++++++++++++++++++++++++++++++++			
	Phase 4b		19 14-Oct	-09 10-Nov-09	13			0-Nov-09 Phase 4b			
	A6820	Establish Traffic Management & Temp. Fending		-09 16-Oct-09							
	A6830	Remove island surfacing and exc. to formation	585 37.755500	-09 19-Oct-09							
	A6840	Construct Kerb lines		-09 23-Oct-09							
	A6850	Move Gullies		-09 27-Oct-09							
		**************************************		-09 30-Oct-09							
	A6860	Sub base	VALUE (170 OF CO.								
	A6870	Plane off wearing course	(1) (0.00000000000000000000000000000000000	-09 02-Nov-09	100						
	A6880	Roadbase/base course/wearing course/temp ramps		-05 05-Nov-09							
	A6890	Pavement Works	- 100 COLUMN	-09 10-Nov-09							
	A6900	White Lines		-09 06-Nov-09							
	A6910	Street Lighting / Traffic Signals / Road Signs	3735440000	-09 03-Nov-09							
	A6915	Remove fencing and Traffic Management	1 06-Nov	-05 09-Nov-09	2000		1111111111111				
	Phase 6b		25 17-Mar	-10 22-Apr-10	305			22-Apr+10, Phase 6b			
	A7240	Establish Traffic Management & Temp. Fending	2 17-Mar	-10 19-Mar-10	262						
	A7250	Excavate for new channel and kerb line / remove existing kerbs	2 19-Mai	-10 23-Mar-10	262		 	- 1			
	A7260	Construct Kerb lines	5 23-Mai	-10 30-Mar-10	262			a 0			
	A7270	Reset Gullies	5 24-Mar	-10 31-Mar-10	274			. 0			
	A7280	Surface new channel	2 31-Mai	-10 05-Apr-10	274						
	A7290	Pavement Works	15 30-Mar	-10 21-Apr-10	262						
	A7310	Street Lighting / Traffic Signals / Road Signs	7 30-Mai	-10 09-Apr-10	270			1-11011111111		1-1	
	A7315	Remove fencing and Traffic Management	1 21-Apr	-10 22-Apr-10	262					-	
I	Revisio	on Checked Approved	Page 31 of 57	1 — v	/31 Baseline	Remaining Work	♦ V31 Baseline Milestone	Summarv		_	,
		SCS		1,11 1942 540		Critical Remaining Work	◆ Milestone	** ***********************************			

	Activity Name	Original Sta Duration	art Finish	Floa	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4
Phase 7	-	15 24-	-Jun-10 15-Jul-	10 260	OND JEMAM JJASOND JEMAM JJASOND JEMAM JJASO
A7320	Establish Traffic Management & Temp. Fencing	2 24-	-Jun-10 28-Jun	10 218	
A7330	Replace north junction kerb line	6 28-	-Jun-10 06-Jul-	10 218	ù ò
A7340	Rebuild splitter island	6 06-	-Jul-10 14-Jul-	10 218	
A7350	White Lines / Traffic Signals / Road Signs	4 28-	-Jun-10 02-Jul-	10 226	
A7355	Remove fending and Traffic Management	1 14-	-Jul-10 15-Jul-	10 218	
Torphicen Ch 112	25-940	64 26-	-Nov-1C 11-Mar	-11 129	11-Mar-11, Torph
Phase 3		64 26-	-Nov-10 11-Mar	-11 129	11-Mar-11, Phase
North Paven	nent	30 26-	-Nov-10 24-Jan	11 110	₹ 24-Jan-11, North Pavi
A7680	Establish Traffic Management & Temp. Fending	2 26-	-Nov-10 30-Nov	-10 110	
A7690	Replace north kerb line	10 30-	-Nov-10 21-Jan	11 110	_ ⊢a
A7695	Remove fending and Traffic Management		-Jan-11 24-Jan		
South Paver			-Jan-11 11-Feb		▼▼ 11-Feb-11; South Pa
A7700	Establish Traffic Management & Temp. Fending		-Jan-11 26-Jan		
A7710	Excavate for new channel and kerb line / remove		-Jan-11 28-Jan		
A7720	existing kerbs Construct Kerb lines	557573	-Jan-11 02-Feb	20,671	
A7730	Reset Gullies		-Feb-11 04-Feb		
120000000	P. C. (1997)			-0.00	
A7740	Surface new channel		-Feb-11 07-Feb		
A7750	Pavement Works		-Feb-11 11-Feb		
A7760	Street Lighting / Traffic Signals / Road Signs	00000	-Feb-11 07-Feb	37832	
A7765	Remove fending and Traffic Management		-Feb-11 08-Feb		
Splitter Islan	-Marka (1997) - 1997 -		-Feb-11 11-Mar	بتنك التت	11-Mar-11, Splitte
A7770	Establish Traffic Management & Temp. Fending	2 08-	-Feb-11 10-Feb	-11 110	
A7780	Excavate for new channel and kerb line / remove existing kerbs	2 10-	-Feb-11 14-Feb	-11 110	
A7790	Construct Kerb lines	4 11-	-Feb-11 17-Feb	-11 110	
A7800	Reset Gullies	4 14-	-Feb-11 18-Feb	-11 115	
A7810	Surface new channel	1 18-	-Feb-11 21-Feb	-11 115	
A7820	Pavement Works	16 17-	-Feb-11 11-Mar	-11 110	
A7830	Street Lighting / Traffic Signals / Road Signs	3 17-	-Feb-11 22-Feb	-11 114	
A7835	Remove fending and Traffic Management	1 28-	-Feb-11 01-Mar	-11 110	
West Maitland Ch	940-850	19 13-	-May-10 09-Jun	10 86	v 109-Juin-10, West Maitland Ch 940-850
Phase 1		19 13-	-May-10 09-Jun	10 86	v≕v 09-Jun-10. Phase 1
South Paver	ment	11 13-	-May-10 27-May	-10 86	. ₩ 27-May-10, South Pavement:
A7840	Establish Traffic Management & Temp. Fencing	2 13-	-May-10 14-May	-10 62	
Rev	ision Checked Approved	Page 32 of 57		9 VO4 D	Remaining Work ♦ V31 Baseline Milestone ▼ Summary

	Activity Name	Original Start	Finish	Total Float	Qtr 4	Ofr 1	LOtr	2008	tr 3	Otr 4	Otr	1 Qt	2005	otr 3	Otr	4 (2tr 1	Ofr	2010	r3 0	Otr 4	Otr 1	117	2tr 2	I Off	3
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A7850	Excavate for new channel and kerb line / remove existing kerbs	2 17-N	1ay-10 18-May-10	62							11							1								
A7860	Construct Kerb lines	4 18-N	May-10 21-May-10	62														1								1
A7870	Reset Gullies	4 19-N	May-10 24-May-10	62														0								-
A7880	Surface new channel	2 25-N	1ay-10 26-May-10	62									11			١.		1				Ш				2444
A7885	Remove fending and Traffic Management		1ay-10 27-May-10	62			++-	-+-1		-		44	+				1-1-1	-	-4-4	++-	-	144			H	-
-29-900-00940	The state of the s			86												Ι.			v 09-	Jun-10,	North	Paver	ment			-
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A7890	Establish Traffic Management & Temp. Fending	2 28-N	1ay-10 01-Jun-10	62		Н							11			1						Ш				1
A7900	Excavate for new channel and kerb line / remove existing kerbs	1 02-J	un-10 02-Jun-10	62									П													-
A7910	Construct Kerb lines	2 03-J	un-10 04-Jun-10	62									Ш			١.										
A7920	Reset Gullies	1 07-J	un-10 07-Jun-10	62	111	11	1-1-				11	11	tt			Ħ			1	111	11	H				
A7930	Surface new channel	1 08-J	un-10 08-Jun-10	62												١.			1					П		
A7935	Remove fending and Traffic Management	1 09-J	un-10 09-Jun-10	62									11						1							-
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A8180	Establish Traffic Management & Temp. Fending	2 16-F	eb-10 17-Feb-10	62										•			1					Ш				
A8190	Excavate for new channel and kerb line / remove existing kerbs	18 18-F	eb-10 15-Mar-10	62										-												
A8200	Construct Kerb lines	23 23-F	eb-10 25-Mar-10	62										-	_											-
A8210	Reset Guilles	15 09-N	far-10 29-Mar-10	82									П		_		8		П							2000
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A8230	Pavement Works		1ar-10 11-May-10	62	444						4-4-		++-			ļ.,			-1-1		ļ.ļ					
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A8240	Street Lighting / Traffic Signals / Road Signs		Mar-10 06-Apr-10	86									11		•		1			11		Ш				-
A8245	Remove fencing and Traffic Management	1 12-N	May-10 12-May-10	62									11			1	Ш	1				Ш				-
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Haymarket Ch 1250-11	25	337 13-F	eb-09 24-Jun-10	80	111	11				1		+++	Ħ		+	-			24	-Jun-10), Hay	market	t Ch	1250	1125	455
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A6580	Excavate box	1 17-F	eb-09 17-Feb-09	105																						
A6590	Excavate, lay and concrete ducts	2 18-F	eb-09 19-Feb-09	105							1							-		1					1	
A6600	Excavate and construct OLE bases	2 18-F	eb-09 19-Feb-09	105							1		11							11						Separate Sep
A6630	Place upper concrete and cure	4 08-J	ul-09 14-Jul-09	13									1				Hİ					Ш				-
A6640	Street Surface finishes	3 14-J	ul-09 17-Jul-09	13																						STREET, ST.
Revision	Checked Approved	Page 33 of 57										20.00	2000		e di	VI. 160			Name and	de de						-
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2nd half 1D-14I-TRCK-70				OINDUIEMAMUUUASO	NIDLJI ELMI ATMLJI JI ALSTOLNI DI JI ELMI ALMLJI JI ALSTOLNI DI JI ELMI ALMI
1D-14I-TRCK-70		40 17-Jul	-09 14-Sep-09	11	NDJFMAMJJASONDJFMAMJJASONDJFMAM 14-Sep-Us, znd hait
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A6650	Excavate box	1 17-Jul	-09 20-Jul-09	13	
A6660	Excavate, lay and concrete ducts	2 20-Jul	-09 22-Jul-09	13	
A6700	Place upper concrete and cure	4 29-Jul	-09 08-Sep-09	11	[] [] [, [] H [] [] [] [] [] [] [] [
A6710	Street Surface finishes	3 08-Se	p-09 11-Sep-09	11	
A6720	Remove fending and Traffic Management	1 11-Se	p-09 14-Sep-09		
Phase 5		81 09-No	v-09 17-Mar-10	42	▼ 17-Mar-10, Phase 5
1st half		40 09-No	v-09 18-Jan-10	69	▼ 7 18-Jan-10, 1st half
1D-14J-TRCK-70	Set Track (54m)	4 05-Ja	n-10 08-Jan-10	0	. , , , , , , , , , , , , , , , , , , ,
A6920	Establish Traffic Management & Temp. Fencing	2 09-No	v-09 11-Nov-09	11	· \$-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\
A6940	Excavate box	1 11-No	v-05 12-Nov-09	11	
A6950	Excavate, lay and concrete ducts		v-05 16-Nov-09	11	
2000000	Excavate and construct OLE bases		v-05 16-Nov-09	11	
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V000940000	Street Surface finishes	2.01995.000	n-10 18-Jan-10	69	
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1D-14K-TRCK-70	Set Track (54m)		r-10 08-Mar-10	42	
	Excavate box		n-10 19-Jan-10	69	
	Excavate, lay and concrete ducts		n-10 21-Jan-10	69	
7.00 Sept. (2)			r-10 11-Mar-10	42	!
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	Remove fending and Traffic Management	211124222111221	r-10 17-Mar-10	42	24-Jun-10, Phase 6a
Phase 6a		TOTAL TOTAL	r-10 24-Jun-10	80	
1st half	Section and the second control to		r-10 04-Jun-10		U4-JUR-10, 1st hall
1D-14L-TRCK-70			y-10 26-May-10		
Vic=385000	Establish Traffic Management & Temp. Fending	585 SAL 1995	r-10 19-Mar-10	42	
	Excavate box		r-10 22-Mar-10	42	- · · · · · · · · · · · · · · · · · · ·
	Excavate, lay and concrete ducts	***************************************	r-10 24-Mar-10	42	
A7120	Excavate and construct OLE bases	2 22-Ma	r-10 24-Mar-10	42	<u> </u>
A7150	Place upper concrete and cure	3 26-Ma	y-10 01-Jun-10	1	
A7160	Street Surface finishes	3 01-Ju	n-10 04-Jun-10	1]
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	Activity Name	Original Start Duration	Finish	Total Float	Qtr 4	Qtr 1	_	Qtr 3	Qtr 4	Qtr 1		2009 2 Qtr	3 Otr	4 0	tr 1		Qtr	3 [(Qtr 4	Qtr	110	_	Q
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A7170	Excavate box	1 04-Jun-1	07-Jun-10	1										111		1.			i i				
A7180	Excavate, lay and concrete ducts	2 07-Jun-16	09-Jun-10	1			Ш			H				11.	H				H				
A7220	Place upper concrete and cure	3 15-Jun-10	0 18-Jun-10	56																			
A7230	Street Surface finishes	3 18-Jun-1	23-Jun-10	56											Ш			П					
A7235	Remove fending and Traffic Management	1 23-Jun-10	24-Jun-10	56															-				
orphicen Ch 1125-940		203 18-Nov-0	£ 20-Sep-10	50									1	H	+	Ħ		7 20	0-Sep	-10, T	orphio	en C	1
Phase 1		92 18-Nov-0	£ 12-Apr-10	131	11	111	ttt	1111	177	77	111	TT	1		-,	12-A	or-10,	Phase	e 1	Ħ	T	Ť	-
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1D-14D-TRCK-70	Set Track (145m)	6 11-Jan-16	0 18-Jan-10	0										0									
A7360	Establish Traffic Management & Temp. Fending	2 18-Nov-0	£ 20-Nov-09	36																		1	-
A7380	Excavate box	3 20-Nov-0	£ 25-Nov-09	36										0								1	
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A7440	Street Surface finishes	3 22-Jan-10	26-Jan-10	33										0								-	
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1D-14F-TRCK-70	Set Track (40m)	4 06-Jul-10	12-Jul-10	25													1						
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A7540	Excavate box	1 29-Jun-1	30-Jun-10	56																			
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A7560	Excavate and construct OLE bases	2 02-Jul-10	06-Jul-10	56											1.		9						
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Revision	Checked Approved	Page 35 of 57		21 Receline		Re	maining	Work	\$	^	1/24 0	acolina 6	Milacton	e 🔻	1.75	C	2.550						

