

Bilfinger Berger – Siemens – CAF Consortium

**EDINBURGH TRAM NETWORK
INFRACO CONTRACT**

**PERIOD REPORT No 3-13
TO 26 MARCH 2011**

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1 EXECUTIVE SUMMARY

In Period 3-12, 35,640 hours were worked, of which 21,467 were site hours with 3 reportable incidents.

Progress achieved up to 18 March 2011 has been recorded against the Programme Rev 1 and the Planned Sectional Completion Date for Section D has been delayed from 6 September 11 to 25 February 2014 (Programme Rev 1).

The incorporation of design information from the SDS Provider, revised scope of works, notified and agreed Permitted Variations and known access dates provided by *tie* on 6 October 10 for MUDFA/Utilities completion have been incorporated into the Updated Programme for the Period.

Progress achieved up to 18 March 2011 has been recorded against the Updated Programme for the Period which informs a forecast Planned Sectional Completion Date for Section D of 31 August 2014.

Production of civil and building drawings is largely complete. In general, earthworks, roads, track and structures drawings are available and drawings for the depot, substation and tramstops have been completed and submitted for approval. To finalise and close out the design, a number of issues have to be resolved by *tie*, in particular, instruction of design changes and support of the approvals process.

Civil drawings are largely complete. The Infracore IDC process is almost complete. Two sessions are scheduled in March 2011 to confirm IDC for amended design due to tie Changes. IDC workshops for design elements that are pending change instruction cannot be scheduled and are holding up completion. *tie* to issue change instructions to resolve. Infracore issued the relevant Design Assurance Statements (DAS) in draft form to *tie* on 9 August 10; however, the assurance documentation issued to *tie* does not account for the outstanding requirements outlined in this report and can therefore not be finalised.

System engineering design is substantially complete for all disciplines or system lots. Most of the system design re-submittals over the last months are addressing minor comments (vocabulary, additional reference notes etc.) requested or suggested by *tie* in their RoR of the previously submitted versions, or, resulting from fine tuning design as part of the integration process.

Tram manufacturing is progressing well at CAF Irun premises

Tram No 2 was delivered to Edinburgh on 25 April 10. Tram No 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and 22 are ready for delivery to Edinburgh, though Factory Acceptance Routine Test Certificates for Trams No 21 and 22 have not yet been issued. Tram No 23 has just finished its testing programme and it is getting ready before invitation for

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inspection to the Tram Inspector is forwarded. Factory tests for Tram No 24 will be achieved the end of March 11.

A total of 812 Changes have been notified as at 11 March 2011. 224 changes have been superseded, withdrawn or have a delay impact only leaving 588 changes requiring Estimates. 543 Estimates have been submitted with a total estimated value of £165,797,161. Of the 543 submitted Estimates 213 have been accepted by issue of a *tie* Change Order and with an aggregate value of £25,829,137.

Virtually all construction works are impacted by external issues which require resolution through the change process of the contract.

Dispute Resolution Procedure:

31 matters have been referred to the internal dispute resolution procedure.

11 disputes have been settled during the internal dispute resolution procedure.

12 disputes have been resolved through adjudication. 3 have been determined in favour of *tie* and 9 have been determined in favour of Infraco.

7 disputes are proceeding through the internal dispute resolution procedure.

1 dispute has been withdrawn by *tie*

Remediable Termination Notices (RTN's)

tie has raised 10 RTN's and Infraco has responded to all 10 RTN's and have refuted their validity.

Underperformance Warning Notices (UWN's)

tie has raised 3 UWN's and Infraco has responded to all 3 UWN's and have refuted their validity.

Mediation

The City of Edinburgh Council, *tie* and Infraco together with Transport Scotland engaged in Mediation discussions during the week commencing 7 March 2011.

The talks were constructive and we have established a mutual understanding of the key issues that have been impeding the progress of the Works. We continue to work together to firm up the framework for our future working arrangements and the successful delivery of the Project.

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2 HSQE

2.1 Health & Safety

The next Workforce Consultation meeting will take place on 24 March 11.

The next OHS meeting is scheduled for 22 March 11.

Monthly HSE inspections and weekly SHE inspections continue to be carried out. Daily checks are being undertaken around all Infraco worksites.

Joint tie/Infraco CoCP/SHE inspections continue to be carried out during each period.

CoCP compliance discussed at tie/Infraco HSE meetings and at the monthly OHS Meetings.

Joint Tie/Infraco HSE meetings are now taking place bi-weekly.

Fire Risk Assessment reviewed and updated at the depot.

2.1.2 Accidents, Incidents and Near Misses/Unsafe Conditions:

Period 3-12 records up to 26 February 2011 is as follows:

3No incidents recorded in Period 3-12.

The AFRs at the end of Period 3-12:

Project AFR:	0.14
KPI AFR for 2010/2011:	0.23

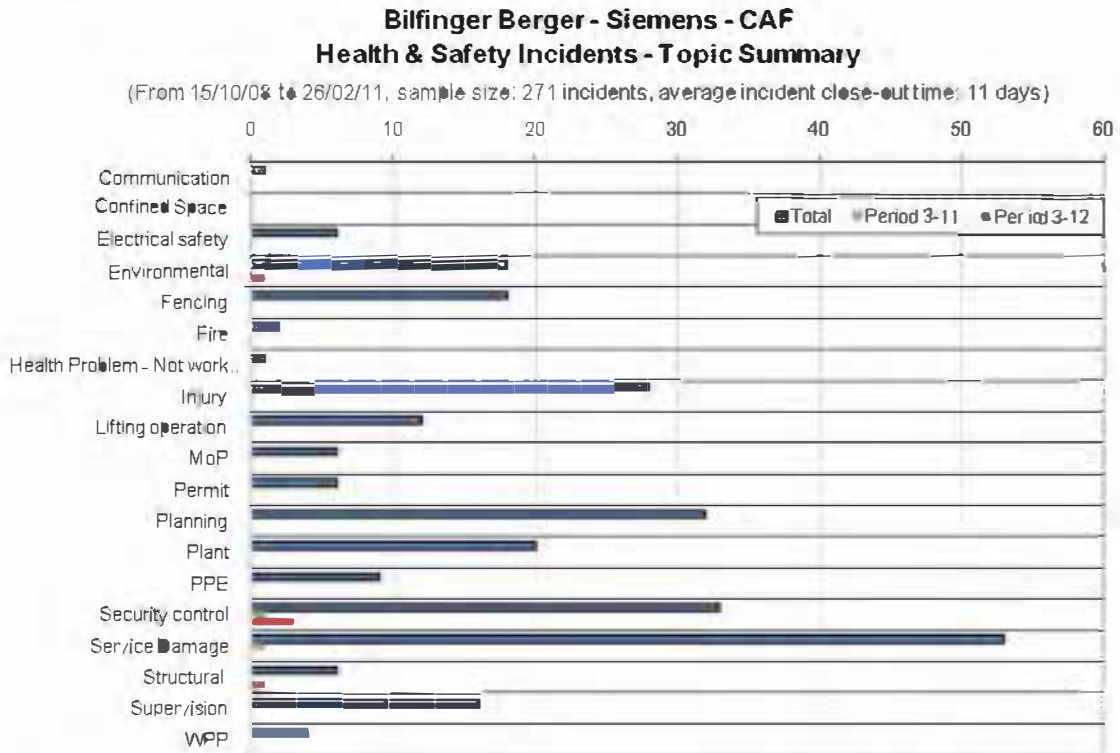
Total Hours worked in Period 3-12:

Total:	35,640
Non site hours =	14,173
Site Hours =	21,467

Contractor Period HS&E Return for Period 3-12 is attached at Appendix 10.1.

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2.1.3 Rolling Trend Analysis for Period 3-12 up to 26 February 2011 on safety and environmental related activities.



2.2 Environment

2.2.1 Infraco arranged a meeting with BAA and tie to discuss the replacement ofter Holt location. During the meeting, BAA confirmed it is in their land and they do not have any issues on the location. BAA will formalise their approval through tie as Infraco has no formal direct contact with BAA.

2.3 Any Other Business
Nil.

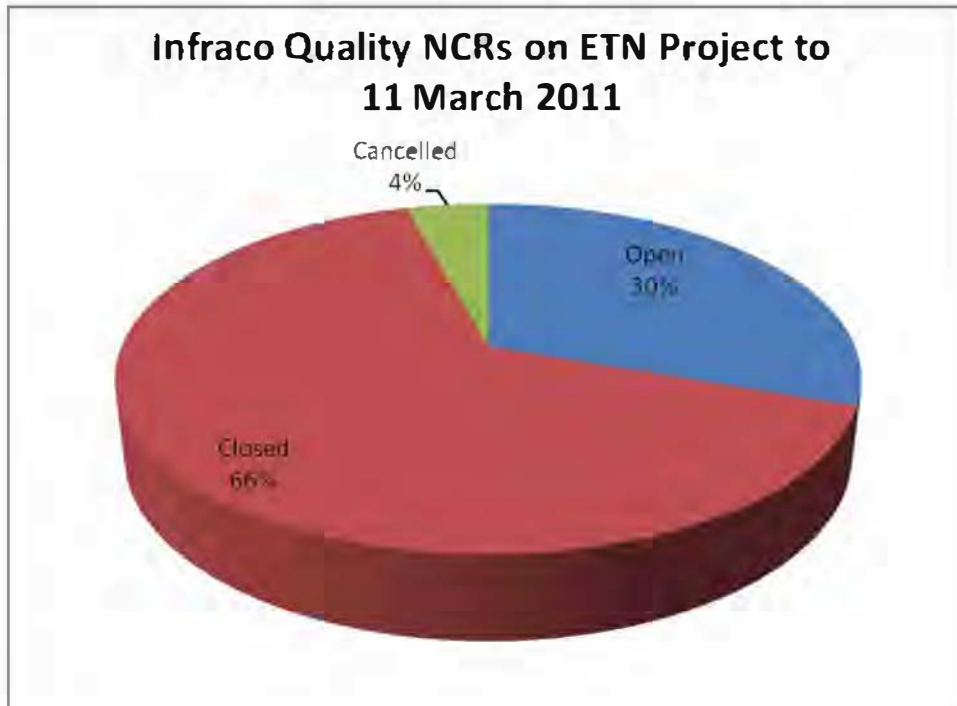
2.4 Quality

2.4.1 Quality Management System

41 Infraco ITPs have been submitted to tie. 37 are 'Level A – No Objection', 1 at Level B and 2 at Level C. A further 2 E&M related ITPs have been submitted for information. 1 civils ITP for Bridge Expansion Joints and Gap Sealing and 1 no. addendum to the ETN Trackwork ITP have been submitted for review and acceptance. Response is awaited from tie.

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2.4.2 NCRs



NCRs in Period 3-12

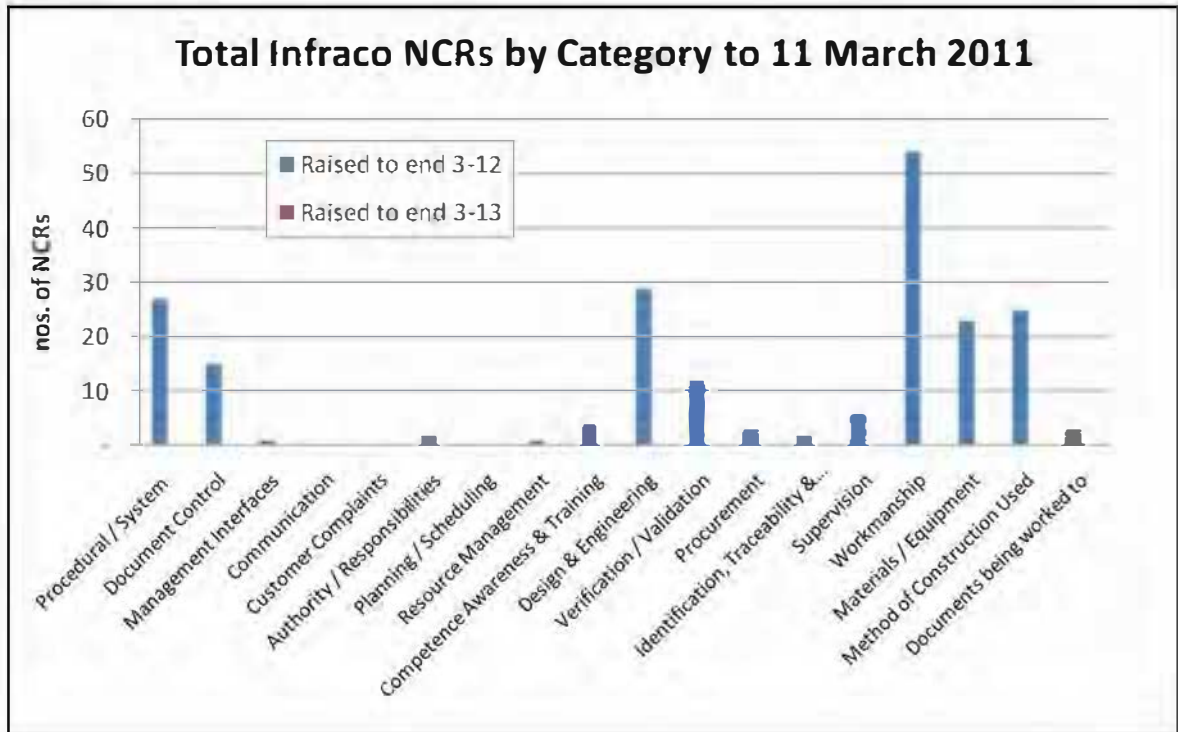
Raised in Current Period	2
Closed in Current Period	0
Cancelled in Current Period	0

NCRs in Period 3-13 to 11 March 11

Raised in Current Period	0
Closed in Current Period	0
Cancelled in Current Period	0

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The latest trending histogram for Quality NCRs is shown below.



2.4.3 Audits

During the reporting period 2 internal audits were carried out.

3. PROGRAMME

3.1. Programme

In order to allow continued monitoring of the Accepted Programme Revision 1, the Programme has been progressed and included at Appendix 10.2.1 of this report. Progress achieved up to 18 March 11 has been recorded against this baseline including the addition of the latest IFC dates received from SDS (V67).

The Period 3-2 Progress report confirmed that the Programme Revision 1 Section D completion date of 6 September 11 was reported to have slipped to 28 May 2013. Programme Revision 1 was generally regarded by then to be overdue for replacement being up to 20 months adrift from the Infraco projected completion date. This made realistic monitoring of progress difficult, especially as there has been considerable change to scope and constraints over the life of Programme Revision 1. The Section D Completion Date for Programme Revision 1 now stands at 25 February 2014.

The Programme identifies completion of MUDFA works in each Intermediate Section and uses these dates as a start milestone for the Infraco work. Infraco have progressed (“progress to date”) the Programme in accordance

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with the Contract and the MUDFA completion dates have been extracted from the latest information received from *tie* by cover of *tie* Access Maps (latest - *tie* letter 6361 dated 6 October 2010). Where access dates have passed and the MUDFA works are incomplete the access dates are defaulting to the programme data date of 18 March 2011. It should be noted that Infracore responses, accompanied by maps, dispute the availability of the site as notified by *tie*.

It should be recognised that the Programme has only been progressed where noted in this report and does not include for all changes that we are aware of or have been notified to date for example dealing with abandoned services, misalignment issues, growth in work scope etc.

The soil nailing activity in the Programme represents soil retention alongside the A8 road adjacent to the depot. In the current IFC design these works are no longer required and the works are therefore shown to be completed.

At a number of locations the construction sequence has been changed, from that originally considered, to suit current constraints. Presently the logic of the Programme remains unaltered from that envisaged at Contract Award. Therefore some inaccuracies occur when “progress to date” has been entered into the Programme. The relative early commencement of track laying in the depot has distorted the logic between Sections 5 and 6, and impacts the Section completion dates. This sequence has now been updated to suit current constraints. The Section A completion date in Report 3.09 indicated an earlier completion date than the Depot Substation. This was due to the preferential sequence and resource used for substation construction when creating the Programme. This sequence has now been changed to allow the depot dates to align.

Construction of S32 Depot Access Bridge is progressing against the original relationship with the A8 Underpass. This logic has been broken to allow a more accurate completion date for S32.

The attached Programme considers progress achieved against the agreed Programme Revision 1 which was based on the base date design information (BDDI) and other Programme Assumptions. Hence the analysis to provide the predicted Section Completion Date does not take into account the increased scope of works which is now apparent post BDDI. These predicted dates are thus significantly earlier than would be expected if all factors governing the construction of the works are taken into account.

The links between the third party consents and the related activities present in the Programme have been deleted to enable a true analysis to be provided of the current situation.

The Update Programme for the Period is included at Appendix 10.2.2 of this report has been progressed with the same information as above and the projected Section Completion Dates are included in the report table below. It should be noted that the Update Programme has only been progressed where the included scope allows and does not include for all changes that we

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are aware of or have been notified to date. A further update will address these issues in due course.

Assumed dates for Agreement of Change which have been surpassed are, unless Change has been fully agreed, or works have been re-scheduled, now defaulting to the current data date.

The above results in the following changes to Section Completion Dates:

Section	Update Programme Progress to 18 Mar 2011	Programme Revision 1 Progress to 18 Mar 2011	Programme Revision 1 Progress to 18 Feb 2011	Programme Revision 1
A	23 November 2011	10 October 2011	26 August 2011	1 June 2010
B	27 July 2012	11 January 2013	03 December 2012	1 July 2010
C	04 March 2014	29 August 2013	14 August 2013	10 March 2011
D	31 August 2014	25 February 2014	10 February 2014	6 September 2011

The Critical Path driving the Section C completion date in the Update Programme is as follows:

Section 1B construction / through Section 1C E&M / to Construction Completion 1a /to Section Completion C.

3.2 Look Ahead Programme

This programme is provided for information and coordination purposes only; and without prejudice to the rights of the Infraco under the Agreement.

This programme constitutes a target programme and as such, contains durations that are based on a risk profile not consistent with the Accepted Programme.

The Look-Ahead programme in Appendix 10.3 is an extract from the current Infraco Construction Programme.

This Look-Ahead programme is extended to cover the period 19 March to 10 June 2011 and is an extract from the current Construction Programme with IFC dates from the SDS V67 Programme and also updated with progress of The Works recorded and assessed to 18 March 2011.

This programme includes a number of activities for agreement of Change from BDDI to IFC. These milestones are having an impact on progress in all sections as shown in the appended programmes. Unless Change has been fully agreed, or works have been re-scheduled to a later date, these milestones default to the current data date,

MUDFA/Utility activities remain scheduled in accordance with the site wide programme information provided by cover of *tie* Access Maps (latest - *tie* letter 6361) indicating available Works areas and/or planned possession dates which are the subject of ongoing correspondence. Infraco responses, accompanied by maps, dispute the availability of the site as notified therefore

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where appropriate the Infraco information may have been used in order to provide an accurate plan of the intended Works. This information remains critical to the accurate planning of the Works. Where MUDFA/Utility Works are ongoing, the Completion Milestones will continue to default to the report date unless planned completion dates are later.

Section 1A

(Ref. Section 4.1.3.1)

MUDFA/Utility diversion works on Lindsay Road were started by *tie* (Clancy Docwra) on 16 November 2009. The current utilities information (*tie* letter 6361) indicates that Lindsay Road is available to the Infraco but the Permit to Commence has not been issued and the carriageway has not been handed over to the Infraco as stated. The Traffic Management Scheme was initially approved by the TMRP on 22 June 09, and revised/approved on 8 March 2010. The scheme was updated and approved again on 10 June 2010 in consultation with the *tie* site management (Infraco letter 7743). Infraco Permits to Commence BSC-PCW-0119 and 0122 were submitted on 2 and 19 March 2010 respectively. Further to the instruction to proceed pursuant to clause 80.15, Permit to Commence BSC-PCW-0144 was submitted on 21 December 2010 with a view to commencing Works on 7 February 2011. The detailed construction programme was revised, but is now slipping as no permit has been issued to date.

Piling works for Wall 1A re-commenced on 31 May 2010 but obstructions considered to be an old sea wall have been investigated and construction of Panels A3 to A6 will now be resolved during Phase 5B on Lindsay Road. MUDFA/Utility works re-commenced on 8 September 2010 for construction of a manhole undermining the footprint of RW1A panel A3. The area was returned to the Infraco on 15 Oct 2010. The restricted area available to the Infraco only allowed partial possession of the merged TTM Phases 6 & 7 to enable construction of Wall 1A, 1C and 1D only. Construction of Wall 1A is complete except for panels A3 to A6 incl.

MUDFA/Utility works re-commenced on 8 September 2010 to construct 3nr manholes at Ocean Terminal. The Infraco was also advised that construction of 1nr manhole in TTM Phase 9 was planned. At the time of writing the Infraco await notification of MUDFA/Utility completion and handover dates to allow programming of the works.

MUDFA/Utility works from Victoria Bridge to Ocean Terminal started w/c 16 November 2009 and are ongoing. The *tie* Access Maps indicate availability of half carriageway width which is neither compliant with the Accepted Programme, the Update Programme, or the Approved Traffic Management Scheme. Utility works for the construction of side-entry manholes between Tower Place and the Mint Casino are complete although Casino roundabout remains unavailable to the Infraco. At the time of writing the Infraco await notification of MUDFA/Utility completion and handover dates to allow programming of the works.

Section 1A is planned as a continuous series of road closures over 18 phases in order to accommodate traffic and access requirements. Alterations to

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Tower Place Bridge have been suspended due to the expiry of the Forth Ports licence on 19 November 2010. A programme of works was carried out to allow re-opening of the bridge to traffic on 19 November 2010. *tie* confirmed that works could re-commence on 10 January 2010, but as at 18 March 2011 a Forth Ports licence was not in place and the programme of works is delayed. Tower Bridge access ramp is now under review with FPA/*tie*. These items continue to have an impact on the Programme.

Infraco Works on Constitution Street continue to be delayed awaiting completion of MUDFA/Utility Works in this area (construction of Side-Entry Manholes / gas abandonment works / integrity of cemetery wall). *tie* indicate (*tie* letter 6361) partial site availability with Ch.1,800 to 2,350 not available until 30 November 2010. The remaining area has not been handed over to the Infraco and Traffic Management issues preclude use of the restricted area currently available.

Agreement of Change, Forth Ports Licence issues at Casino Access Road (Port/Border Control), and proposed addition of utility works to the Infraco scope, are impacting Programme. In summary, there are a number of issues in Section 1A which are causing delay to the Programme.

Section 1B/C – Foot of the Walk to Annandale Street

(Ref. Section 4.1.3.2/3)

A re-start meeting was held on 19 October 2009.

MUDFA/Utility Works were expected to be clear by 30 November 2009. Utility Works (BT) are ongoing at this time. *tie* indicate (*tie* letter 6361) partial site availability to the Infraco with the remainder notified as Jane Street to McDonald Road Northbound earliest possession date of 3 December 2010 but not yet handed over to the Infraco. Traffic Management issues preclude use of the fragmented/restricted areas currently available. The delay in Section 1B is having an impact on the Programme, the full affect of which will be unclear until actual Infraco possession dates are achieved.

Proposed addition of utility works to the Infraco scope, and outstanding roads design issues will also impact Programme.

The Infraco continues to seek resolution to issues delaying the Permits to Commence BSC-PCW-125 and BSC-PCW-126 which were submitted on 15 April 2010. At the time of writing the Infraco await notification of MUDFA/Utility completion and handover dates to allow programming of the works.

Section 1C - Annandale Street to St Andrew Square

(Ref. Section 4.1.3.3)

A detailed programme is being developed at this time but will remain in draft form until design at Picardy Place is resolved and TTM phasing is finalised. *tie* Access Maps (*tie* letter 6361) indicate partial availability of the site (Picardy Place + 3x100m Lengths of half carriageway) but these areas are individually encompassed by MUDFA/Utility works which show Infraco possession dates of 03 December 2010. Traffic Management issues

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preclude use of the fragmented/restricted areas currently available. Proposed addition of utility works to the Infraco scope also impact Programme.

The Infraco continues to seek resolution to issues delaying the Permit to Commence BSC-PCW-126 which was submitted on 15 April 2010. At the time of writing the Infraco await notification of MUDFA/Utility completion and handover dates to allow programming of the works.

Section 1C – St Andrew Square to Princes Street (Waverley Bridge Junction)

(Ref. Section 4.1.3.3)

Ongoing MUDFA/Utility (BT) works are now expected to continue until earliest possession dates of 15 November 2010 for St Andrew Square and South St Andrew St. *tie* letter 6361 indicates the East end of Princes St is available to the Infraco, but construction of the rail curve and associated traffic management issues require the extended area to be available.

Proposed addition of utility works to the Infraco scope also impact Programme.

The delays on Section 1C are having an impact on the Programme, the full affect of which will be unclear until actual Infraco possession dates are achieved.

Section 1C/D - Princes Street

(Ref. Section 4.1.3.3/4)

Princes Street was re-opened to traffic on 29 November 2009. Remedial and outstanding works including works associated with Scottish Water are complete at this stage – some works remain. Currently, as agreed with *tie*, Infraco are monitoring items considered to be Safety Critical.

At the time of writing Safety Critical Works are programmed for weekend working and continue to be carried out as required.

Section 1D - Haymarket Junction to Shandwick Place

(Ref. Section 4.1.3.4)

Shandwick Place is notified available to the Infraco (*tie* letter 6361) and the section "Atholl Crescent West to Grosvenor Street" is notified earliest possession of the site due to ongoing MUDFA/Utility works 25 October 2010.

Proposed addition of utility works to the Infraco scope will also impact Programme

The Infraco updated Permit to Commence BSC-PCW-103 at Haymarket Phase H1 for Works to commence on 6 April 2010, and Enabling Works at Shandwick Place (BSC-PCW-123) to start on 13 April 2010 with a view to commencing Works (BSC-PCW-124) on 4 May 2010. The Infraco continues to seek resolution to issues delaying the Permits to Commence BSC-PCW-103 which was initially submitted on 5 January 2010, and BSC-PCW-123 and BSC-PCW-124 which were initially submitted on 1 April 2010. At the time of

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writing the Infraco await notification of MUDFA/Utility completion and handover dates to allow programming of the works.

Section 2

(Ref. Section 4.1.3.5)

Haymarket Corridor

Awaiting agreement of Change for BDDI to IFC, and additional works.

The SGN gas main diversion on Haymarket Yards (On-Street) is incomplete and delays commencement of OLE foundation works. As a result of delays in Haymarket Yards two areas have been passed over to other contractors and are now temporarily not available to the Infraco should works proceed.

The delta junction currently has no IFC drawings pending Planning/CEC approval of re-design.

The above issued are having a significant impact on Programme.

Section 5A

(Ref. Section 4.1.3.6)

Awaiting agreement of Change (BDDI to IFC), viaduct design, contaminated ground, and additional utility works to the Infraco scope are all issues which are affecting progress and impact Programme. IFC drawings are awaiting CEC approval at this time.

Murrayfield Corridor

Agreement of Change BDDI to IFC and discovery of soft ground are impacting Programme.

Russell Road Bridge

Awaiting agreement of Change for BDDI to IFC / additional works / design / and utility works. This continues to impact Programme.

Russell Road Retaining Walls W3/4

Agreement of Change / contaminated ground / agreement of re-design / and access issues are all having a significant effect on the Programme.

Section 5B

(Ref. Section 4.1.3.7)

Agreement of Change (BDDI to IFC), contaminated ground, existing utilities, and addition of utility works to the Infraco scope are all issues which are affecting progress and impact Programme.

Carrick Knowe Bridge

Design issues geometry at abutments / track slab may cause delay to the Programme.

Balgreen to Carrick Knowe Ch.520,200 (rock in drain track) awaiting agreement of Change and Impacting Programme.

South Gyle Access Bridge

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Completion of the MUDFA/Utility work (sewer diversion) is recorded notified as 4 November 2010. Agreement of Change for soft ground and contamination are delaying Programme.

Section 5C

(Ref. Section 4.1.3.8)

Construction continued on the Depot Access Bridge during the period, but delay elsewhere with existing utilities, agreement of Change (BDDI to IFC), contamination by invasive species, and addition of utility works to the Infraco scope are all issues which are affecting progress and impact Programme.

Section 6

(Ref. Section 4.1.3.9)

Although construction continued during the period on the building and tracklaying, agreement of Change (BDDI to IFC), design changes, and delay with the additional water main are affecting progress and impact Programme.

Impact of proposed Gogar Interchange with Network Rail has yet to be assessed.

Section 7

(Ref. Section 4.1.3.10)

Agreement of Change (BDDI to IFC), the extended period for settlement of the surcharge area, track containment specification issues, agreement of Change for NEL future proofing, re-design of wall W14C and CEC/BAA approvals are all impacting Programme in this section.

3.3 Tramco Programme Status

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

4 PROGRESS

4.1 CIVIL & BUILDING WORKS

4.1.1 Civil & Building Design

Programme update attached as Appendix 10.2.

4.1.1.1 Production IFC Design

Programme

Version 68 of the SDS Design Programme was issued to *tie* on 16 March 2011.

Approvals

SDS is closing in on obtaining the final planning and technical approvals required.

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CEC Roads Approval for Section 1C2 remains on hold until Picardy Place redesign is complete. Infraco still awaits Section 3 Approvals from CEC and Scottish Water.

SDS report progress as follows:

From a total of 268 planning and technical approvals:

231 are approved
20 are pending approval
17 are to be submitted

As of 10 March 2011 the status of approved design is 92% for Phase 1a and 92.5% for Phase 1b. These submissions are recorded in the Approvals Look Ahead which is issued to *tie* in advance of the Approvals Taskforce.

The Infraco IDC process is almost complete. Two sessions are scheduled in March 2011 to confirm IDC for amended design due to tie Changes. IDC workshops for design elements that are pending change instruction cannot be scheduled and are holding up completion. *tie* to issue change instructions to resolve.

4.1.1.2 Issues and Concerns

Design Assurance Statements (DAS)

Infraco have issued draft Design Assurance Statements (DAS) to *tie*; however, the assurance documentation issued to *tie* does not account for the outstanding requirements outlined below. We request *tie* to resolve, or to assist Infraco in resolving, the outstanding issues described below as a matter of urgency to allow the design to be completed.

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Section Systemwide – Issues

tie to resolve OLE base conflict issues with Scottish Water

- Action: *tie*

Close out of Tram Stop design issues

- Action: *tie*/CEC

Closeout of System Wide Traffic Modelling Reports

- Action: CEC

Infraco has not been instructed for design of floating or shallow trackform

- Action: *tie*

Development Workshops – outstanding design misalignment changes

- Action: *tie* to instruct

Infraco has not been instructed on any designs for "Special" OLE Foundations

- Action: *tie*

No changes due to Infraco componentry are assumed required for Section 3 closeout

- Action: *tie* to confirm

MUDFA utility conflicts – provision of complete and accurate as-built information and appropriate *tie* instructions to address conflicts

- Action: *tie*

All outstanding design changes across all Sections to be instructed

- Action: *tie*

tie to confirm close out of all Informatives owned by *tie*

- Action: *tie*

tie to confirm extent of reinstatement works by MUDFA in advance of Infraco works across all Sections.

- Action: *tie*

tie to provide as-built and survey information in conjunction with the appropriate instruction to allow connections workshops with SW to progress.

- Action: *tie*

CEC to approve revised OLE Design and impacts to Roads and OLE Foundations

- Action: *tie* / CEC

Planning Variations to align with Technical Approvals

- Action: Infraco/CEC

Closeout of Technical Informatives by CEC

- Action: CEC/ Infraco

tie to assist in obtaining outstanding Scottish Water approvals

- Action: *tie* /SW

Non-Standard Signs Closeout by CEC

- Action: CEC

tie to instruct testing works to close out Roads Design (revised App 7/1)

- Action: *tie*

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Section 1A – Outstanding Issues

Confirmation of made TRO Order so no further changes to design

- Action: CEC/*tie*

Finalise interface with Constitution Street Graveyard Wall (CEC project)

- Action: CEC/*tie*

Closeout of Traffic Modelling by CEC

- Action: CEC/*tie*

Closeout of Technical Informatives by CEC

- Action: CEC/Infraco

tie to confirm close out of Informatives owned by *tie*

- Action: *tie*

Closeout of Planning Informatives by CEC

- Action: CEC/Infraco

Closeout of all Forth Ports issues

- Action: *tie*/CEC

Tower Place Bridge – ramp issue to be resolved

- Action: *tie*/Forth Ports

Close out of Lindsay Road cycle path issues

- Action: *tie*

tie to confirm Scottish Government Gates relocation issue resolved

- Action: *tie*

Technical Approval and IFC of Tower Place Bridge (revised)

- Action: CEC / Infraco

Technical Approval and IFC of Victoria Docks Entrance Bridge (revised)

- Action: CEC / Infraco

Drainage design update approval by Forth Ports

- Action: *tie*

Drainage design update approval by CEC

- Action: CEC

Section 1B – Outstanding Issues

Confirmation of made TRO Order so no further changes to design

- Action: CEC/*tie*

Closeout of Traffic Modelling by CEC

- Action: CEC/*tie*

Drainage design update approval by CEC

- Action: CEC

Closeout of Technical Informatives by CEC

- Action: CEC / Infraco

tie to confirm close out of Informatives owned by *tie*

- Action: *tie*

Closeout of Planning Informatives by CEC

- Action: CEC / Infraco

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Section 1C – Outstanding Issues

CEC Approval required for Section 1C2. “Not to exceed” Change order issued by *tie* for Picardy Place. Instruction for Elder Street redesign required.

- Action: CEC/*tie* / Infraco

Closeout of Traffic Modelling by CEC

- Action: CEC/*tie*

Listed Building Consent for 4 Dublin Street

- Action: *tie* to instruct

Confirmation of made TRO Order so no further changes to design.

- Action: CEC/*tie*

Closeout of Technical Informatives by CEC

- Action: CEC/Infraco

tie to confirm close out of Informatives owned by *tie*

- Action: *tie*

Closeout of Planning Informatives by CEC

- Action: CEC/Infraco

tie to confirm which Cathedral Lane Substation design option is to progress

- Action: *tie*

Drainage design update approval by CEC

- Action: CEC

Section 1D – Outstanding Issues

Grosvenor Street Design Change due to TRO

- Action: *tie* to instruct

Confirmation of made TRO Order so no further changes to design

- Action: CEC/*tie*

Closeout of Technical Informatives by CEC

- Action: CEC/Infraco

tie to confirm close out of Informatives owned by *tie*

- Action: *tie*

Clarification on CEC’s Conservation Statement for Shandwick Place

- Action: CEC/*tie*

Drainage design update approval by CEC

- Action: CEC

Section 2A – Outstanding Issues

Awaiting CEC Closeout of Roads Design

- Action: CEC/*tie*

Confirmation of made TRO Order so no further changes to design.

- Action: CEC/*tie*

Closeout of Technical Informatives by CEC

- Action: CEC/Infraco

tie to confirm close out of Informatives owned by *tie*.

- Action: *tie*

Closeout of Planning Informatives by CEC

- Action: CEC/Infraco

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Phase 1a/1b Interface – SW to approve Section 3A.

- Action: **tie**/SW

Drainage design update approval by CEC/SW

- Action: CEC/SW

Section 2A Close out Report – CEC to issue

- Action: CEC

Junction 91 – resolution of tram operation / traffic interface

- Action: **tie**

Section 3 – Outstanding Issues

CEC Approval of Roads Design

- Action: CEC/**tie**

Need CEC to promote TRO

- Action: CEC/**tie**

Non-Standard Signs Closeout

- Action: CEC/**tie**

Completion of Utilities design

- Action: **tie**

SW Approvals

- Action: **tie** / SW

tie to confirm close out or otherwise of Informatives

- Action: **tie**

Section 5A – Outstanding Issues

Confirmation of made TRO Order so no further changes to design.

- Action: CEC/**tie**

Closeout of Roseburn, Viaduct VE issues and outstanding approvals
(Structures, Roads, Planning)

- Action **tie**

Murrayfield Tram Stop design changes

- Action **tie** to instruct changes

Closeout of Technical Informatives by CEC

- Action CEC / Infraco

tie to confirm close out of Informatives owned by **tie**

- Action **tie**

Closeout of Planning Informatives by CEC

- Action CEC / Infraco

Drainage design update approval by CEC/SW

- Action: CEC/SW

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Section 5B – Outstanding Issues

Confirmation of made TRO Order so no further changes to design.

- Action: CEC/*tie*

Closeout of Technical Informatives by CEC

- Action: CEC/Infraco

tie to confirm close out of Informatives owned by *tie*

- Action: *tie*

Closeout of Planning Informatives by CEC

- Action: CEC/Infraco

Section 5C – Outstanding Issues

Confirmation of made TRO Order so no further changes to design.

- Action: CEC/*tie*

Closeout of Technical Informatives by CEC

- Action: CEC/Infraco

tie to confirm close out of Informatives owned by *tie*.

- Action: *tie*

Closeout of Planning Informatives by CEC

- Action: CEC/Infraco

Building Warrant for Edinburgh Gateway

- Action: CEC/Infraco

Technical Approval for Edinburgh Gateway Retaining Walls

- Action: *tie*/Infraco

250mm Water Main redesign at Depot / Section 5C

- Action: *tie* to complete works diversion works

A8 drainage design (part of Edinburgh Gateway Project)

- Action: *tie* to provide as built and CCTV survey

Drainage design update approval by CEC

- Action: CEC

Section 6 – Outstanding Issues

CEC acceptance of revised roads drawings for Depot Access Road

- Action: CEC/*tie*

Confirmation of made TRO Order so no further changes to design.

- Action: CEC/*tie*

Closeout of Technical Informatives by CEC

- Action: CEC / Infraco

tie to confirm close out of Informatives owned by *tie*

- Action: *tie*

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Closeout of Planning Informatives by CEC

- Action: CEC/Infraco

Depot Access Road Turning Head

- Action: *tie*

Water Supply Connection at Depot

- Action: *tie* to resolve 250 mm main issue with SW

250mm Water Main redesign at Depot / Section 5C

- Action: *tie* to complete works diversion works

Confirmation of made TRO Order so no further changes to design.

- Action: CEC/*tie*

Section 7A – Outstanding Issues

Technical Approval for NIL Change

- Action: *tie* to close out Planning Informatives and confirm how CEC Planning requirement for TAA will be addressed

Planning Approval for Airport Changes

- Action: *tie* to confirm BAA Interface proposals and issue outstanding change instructions

Building Warrant for Airport Changes

- Action: *tie* to discuss scope issues with CEC / TEL / BAA to allow design to be finalised

Revised Flood Modelling and close out of Flood Risk issues in Section 7A

- Action: CEC/*tie*/BAA/NIL

Closeout of Technical Informatives by CEC

- Action: CEC/ Infraco

tie to confirm close out of Informatives owned by *tie*

- Action: *tie*

Closeout of Planning Informatives by CEC

- Action: CEC/Infraco

Confirmation of made TRO Order so no further changes to design.

- Action: CEC/*tie*

Drainage design update approval by CEC

- Action: CEC

In addition, there are a number of long outstanding design changes / issues that also need to be resolved (instructed or closed), before the final design (and DAS) can be completed. The key issues requiring resolution are described below.

Outstanding Design Issues

The issues described below are either requiring urgent attention or Infraco have been awaiting instruction or clarification from *tie* for a significant period of time:

- Section 7A Flood Risk Issue - Infraco await instruction from *tie* for previously completed flood modelling works and any further design works required to resolve the flood model issue. *tie* stated at BAA Interface meeting on 8 Feb 2011 that they anticipated this being resolved by 11 Feb 2011 with BAA and NIL. *tie* provided copy of BAA letter removing Flood Objection by email to Infraco on 14 March 2011. *tie* to formally confirm all flood model issues now closed.

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- Infraco await completion of necessary diversion works by *tie* for the 250mm water main in Section 5C / 6. This is impacting on Infraco's ability to secure the SW approval for the water connection at the Depot.
- Roseburn Viaduct – Infraco have issued a letter to *tie* identifying the scope of works outwith the VE design. Infraco require instruction from *tie* for the additional works. This is holding up completion of the design. Meeting held 11 November 2010 between *tie* and Infraco. *tie* agreed to issue TNC for the additional design by 12 November 2010. Infraco still await instruction from *tie*.
- MUDFA/Utilities Conflicts – Infraco note their concern in regard to the number and potential consequences of the utility conflicts identified to date. *tie* have issued a number of MUDFA “as built” and Infraco have concerns over the completeness, quality and accuracy of the information provided by *tie* to date. Infraco provided examples of quality and accuracy issues to *tie* on 13 October 2010. Correspondence has passed between the parties without resolution.
- Tram Stop Informatives – Infraco await instruction and clarification from *tie* for tram stop changes (Branding and TVMs) as well as the close out of *tie*'s Informatives related to Tram Stops.
- Tower Place Bridge – Infraco await resolution in regards to resolution of the “ramp” issue by *tie* and *tie*'s instruction for the design of the required special shallow trackform interface.
- Phase 1a/1b Interface – this design package requires Scottish Water to provide approval of all or part of at least the related Section 3A. *tie* need to resolve utility issues with Scottish Water to allow Scottish Water to approve Section 3A as detailed above.
- Section 3 CEC Roads Approvals – this has been raised to *tie* at the Approvals Taskforce meeting. Infraco have concerns regarding the lack of resources within CEC to complete outstanding Section 3 Approvals and the close out of comments and Informatives for other sections.
- TRO - IFC conflict at Grosvenor Street – Infraco submitted design only estimate to *tie* for changes required to the CEC Approved design to align with TRO drawings and await *tie* instruction.
- Cathedral Lane Substation – Infraco await *tie*'s instruction on which option to proceed with.
- Section 1C2 Technical Approval (Current Design) – This was due to be resolved and approval granted by CEC on or before 07 July 2009 but is still outstanding. *tie* has been requested through Approvals Taskforce and Design Changes Meeting to assist in resolving this issue with CEC. It is noted that the TROs promoted by CEC are based on the “unapproved” SDS design for Section 1C2.

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- Section 1C1 and 1C2 Scottish Water (SW) Approval – The Approval is more onerous on the Project than previous approvals. Infraco have requested *tie* to raise this with SW. This was first raised to *tie* in October 2010. *tie* advised in February 2011 that *tie* accepted this six month approval constraint. This has potential risks for the project for future resubmissions to SW for approval.
- Picardy Place Redesign (Section 1C2) – *tie* has issued “Not to exceed” change order in advance of agreeing estimate. SDS finalising design only Estimate following scope clarification meeting with CEC on 07 February 2011.
- Elder Street redesign – Infraco await instruction from *tie*.
- Depot Access Road – turning head – *tie* proposed to restrict HGV access. Infraco require formal instruction of this from *tie*. This has been with *tie* since September 2009.
- Murrayfield Wanderers Clubhouse design changes – Infraco require instruction from *tie* in regard to late changes required by SRU and their tenant. Infraco has issued revised IFC design in advance of instruction from *tie* to allow the works to progress.
- Forth Ports – additional gate requirements (INTC 573) – Infraco await instruction from *tie* for the changes requested by Forth Ports. This has been with *tie* since March 2010.
- Lindsay Road Cycle path – *tie* issued TNC for Infraco to incorporate new cycle path into design. Infraco await design only Estimate from SDS and corresponding TCO to carry out the relevant design works.
- Additional Footpath at Ocean Drive – *tie* to confirm scope and issue TNC for design.

4.1.1.3 Extended Construction Support and Design Support

Infraco have appended the proposed org charts for the period 27 March 2011 to 23 April 2011.

Extended Construction Support and Design Support have yet to be acknowledged in full by *tie*.

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4.1.1.4 Development Workshops

Status of Development workshops is shown in Appendix 10.9.

Infraco await change orders from *tie* for a number of misalignments including OLE, Tram Stops, Substations, and Earthing and Bonding where the misalignments have been agreed with *tie* and submitted Estimates have been with *tie* for at least six months.

Infraco and tie met on 17 February 2011 to close in on disagreed items. A follow up meeting is to be scheduled.

4.1.1.5 Edinburgh Gateway (Design)

Infraco attended two design meetings in this period with *tie*.

Infraco held meetings with tie in the period to discuss the design options. Infraco issued draft options summary to tie in week commencing 14 March 2011. tie to confirm to Infraco week commencing 21 March 2011 which option is to be taken forward to detailed design.

The Retaining Walls AIP documentation has been submitted to CEC; however this may need to be resubmitted depending on the design option that is taken forward.

Infraco has concerns that NWR has not provided formal minutes of previous design meetings that covered critical design issues and ongoing design assumptions. Infraco raised this to *tie* in November 2009 and Infraco await close out of this issue by *tie*.

Infraco await formal issue by *tie* of design documentation from NWR on which the SDS design is based. Infraco has concerns over the EMC design proposed by NWR and has requested clarification meeting with *tie*. Infraco understand *tie* is addressing EMC issues with NWR.

Infraco continue to support *tie* in attending construction staging meetings as required.

4.1.1.6 Request for Information (RFI)

RFI issues have been transferred to the Design Change Issues meeting.

On status date 09 March 2011 – RFI (Civil) summarise as follows:

RFI's open:	5 total
RFI's open and unanswered:	4
RFI's responded to but require further clarification:	1

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RFI's issued in February 2011:	0
RFI's responded in February 2011:	0
RFI's closed in February 2011:	0

4.1.1.7 Informatives

Weekly workshops have been set up with CEC and *tie* to work through outstanding Infraco Informatives and comments. This process is ongoing.

Infraco request *tie* to provide outstanding instructions for design changes to allow closeout of corresponding Informatives.

Infraco formally requested a clear written statement explaining the three CEC "Closure" terminologies from *tie* on 25 November 2010. *tie* responded on 02 February 2011. Infraco will respond to *tie* regarding *tie's* latest response that does not answer the question raised by Infraco.

4.1.2 Civil & Building Procurement

4.1.2.1 Sub-Contractors

A Sub-Contract Procurement Schedule is attached as Appendix 10.6.

Section 1A

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

BBUK have sublet Lindsay Road Retaining Wall and associated works together with Tower Place Bridge to McKean and Company (Glasgow) Ltd and are now concluding the terms and conditions of the McKean subcontract order.

They were issued with a Letter of Intent on 4 August 09 which was revised on the 8 March 10 to include Tower Place Bridge and Lindsay Road Retaining Wall and further updated on the 22 September 2010

The method of delivery for the remaining areas (Sections 1A1 and 1A2) is currently under review.

BBUK intend to extend Crummock's involvement down from Foot of the Walk to Port of Leith (1A3).

Section 1B

BBUK are concluding terms and conditions with Crummock Ltd over Section 1B.

Section 1C

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Crummock have submitted their price for 1C1 (MacDonald Road - London Road) and Infraco are currently reviewing this.

BBUK are concluding terms and conditions with Mackenzie Construction Ltd over section 1C3 (Castle Street - Waverley Bridge).

Crummock carried out a smaller section of works under the PSSA between the Mound and Waverley Bridge up to the underside of the new surfacing.

The surfacing works were carried out by Mackenzie.

Section 1D

Final negotiations are proceeding with MacKenzie to conclude a Sub-Contractor order.

Section 2A and 5A (Part)

Final negotiations have concluded with Grahams over the terms of their subcontract.

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

BBUK intend to sublet the remaining structures on Sections 5A, B and C to Expanded Ltd. Discussions continue over finalising programme and terms and conditions.

BBUK have subcontracted the lining of the sewer at Water of Leith to McAllister Bros Ltd.

BBUK have subcontracted the drainage and ducting between Balgreen Tramstop and Carricknowe Bridge to Land & Building Services Ltd.

BBUK have subcontracted the construction of the OLE foundations between Balgreen Tramstop and Carricknowe Bridge to Border Rail Ltd.

Section 6

BBUK have concluded the procurement process for Section 6.

Section 7A

BBUK have concluded the procurement process for Section 7A.

General

The Sections above identified by BBUK represent sections which have been developed for the purposes of procurement only and do not necessarily represent any reference to sections within the Infraco Contract.

Procurement of relevant key Sub-Contractors (Major Civil Works Contractors, Piling Contractors, Ground Stabilisation Specialists) includes the requirement for provision of a Collateral Warranty, in accordance with Clause 28.7 of the Infraco Contract.

All current Key subcontractors have agreed to provide a Collateral Warranty in advance of executing their subcontracts.

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Infraco may need to offer *tie*, in some instances, alternative wording for their Collateral Warranty agreement, as Infraco have not as yet been able to agree with its Key Sub-Contractors using the template in Schedule 8 Part F.

BBUK have requested adjustments to the Collateral Warranty for Barr and Grahams and we are working to conclude this with *tie*.

The length of time it has taken to either procure, negotiate and conclude any Sub-Contract has been affected by the complexity of the main contract negotiations and how Infraco and *tie* require step down into the subcontract, the necessity to operate a complex milestone schedule which can be adversely affected by progress and change on site and the overall uncertainty on an approved realistic Programme.

There are a number of ongoing issues raised by *tie* (and not agreed by Infraco) relating to Key subcontractors and the requirement to achieve approval pursuant to Clause 28.4 of the form of subcontract which is preventing BBUK from executing any key subcontract. This issue has been raised to Dispute and a decision has been reached. Infraco is currently considering that decision.

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4.1.3 Civil & Building Construction

Progress on site to 18 March 11.
 Reported against - Update Programme for Period 3.13.
 Referenced against - Accepted Revision 1 Programme.
 Duration % Complete (workdays).

Section	Completion Dates - Update Programme Data Date 31-10-09 Scope to 31-03-10	Planned Progress Update Programme to 18-03-2011	Previous Progress to 18-02-2011	Actual Progress to 18-03-2011	Anticipated Completion Dates - Update Programme Progressed to 18-03-2011. Resource Levelled	Completion Dates - Accepted Programme Revision 1 Data Date 28-09-07	Planned Progress Programme Revision 1 to 18-03-2011	Anticipated Completion Dates - Accepted Programme Revision 1 to 18-03-2011
1A	04/06/2013	34.94%	10.00%	10.00%	13/01/2014	07/03/2011	100.00%	29/08/2013
1B	10/05/2013	41.96%	3.00%	3.00%	25/02/2014	05/11/2010	100.00%	16/05/2013
1C	17/05/2013	32.49%	1.00%	1.00%	04/03/2014	11/03/2011	100.00%	08/08/2013
1D	02/04/2013	78.00%	48.00%	48.00%	15/11/2013	17/09/2010	100.00%	15/03/2013
2A	31/08/2012	53.15%	33.00%	33.00%	02/07/2013	03/03/2010	100.00%	05/09/2012
5A	24/05/2013	34.06%	7.00%	7.00%	20/11/2013	20/12/2010	100.00%	26/06/2013
5B	11/10/2012	67.65%	39.00%	39.00%	20/05/2013	31/08/2010	100.00%	12/03/2013
5C	21/05/2012	46.88%	30.67%	30.85%	16/01/2013	20/09/2010	100.00%	27/03/2013
6	05/07/2013	45.64%	79.94%	80.38%	22/11/2011	01/06/2010	100.00%	09/07/2012
7	23/04/2012	67.00%	57.00%	57.00%	15/11/2012	05/10/2010	100.00%	17/04/2013
Constn	Section C 24/05/2013	50.18%	30.86%	30.92%	Section C 04/03/2014	Section C 10/03/2011	100.00%	Section C 29/08/2013
	Section D 20/11/2013				Section D 31/08/2014	Section D 06/09/2011		Section D 25/02/2014

Percentages shown are for all Infraco Works.
 Programme Revision 1 has fixed logic.
 The Update Programme is resource levelled.

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**4.1.3.1 Section 1A Newhaven Road to Foot of the Walk
Lindsay Road Retaining Wall**

Progress

No activities carried out during the period.

Offices and Welfare units have been removed from site

Issues and Concerns

Completion of structure is dependent on partial completion of Lindsay Road Realignment and agreement to the revised construction sequence on panels A3 – A6.

IFC scope of works anticipated completion date is now 18 July 11, 109 weeks later than indicated on Programme Rev 1.

Lindsay Road Realignment

Progress

No activities carried out during the period.

Offices and Welfare units have been removed from site

Issues and Concerns

An approved permit to commence has not been issued by *tie*.

IFC scope of works anticipated completion date is 9 February 12, 107 weeks later than indicated on Programme Rev 1.

Trackwork - Newhaven to Ocean Terminal

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

Commencement date is dependent on completion of utility diversions by *tie*.

IFC scope of works completion date is 1 April 13, 145 weeks later than indicated on Programme Rev 1.

Newhaven Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 4 June 12, 89 weeks later than indicated on Programme Rev 1.

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Leith Sands Sub Station

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 19 July 11, 43 weeks later than indicated on Programme Rev 1.

Ocean Terminal Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 11 March 13, 158 weeks later than indicated on Programme Rev 1.

Trackwork - Ocean Terminal to Port of Leith

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

Commencement date is dependent on completion of utility diversions by *tie*.

Completion date is dependent on completion of utility diversions by *tie*.

Commencement date is dependent on agreement of change from BDDI to IFC.

Change estimates on utility transferred by *tie* have not been agreed.

IFC scope of works completion date is 30 April 13, 127 weeks later than indicated on Programme Rev 1.

Victoria Bridge

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on completion of utility diversions by *tie*.

Commencement date is dependent on agreement of change from BDDI to IFC.

Completion date is dependent on completion of utility diversions by *tie*.

IFC scope of works completion date is 15 April 13, 133 weeks later than indicated on Programme Rev 1.

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Tower Place Bridge

North Widening

No activities carried out during the period.
Offices and Welfare units have been removed from site

Issues and Concerns

An approved permit to commence has not been issued by *tie*.
Licence from Forth Ports has not been issued by *tie*.
IFC scope of works completion date is 27 June 11, 62 weeks later than indicated on Programme Rev 1.
Acceptance of design of east run on slab/step/ramp detail unresolved

Trackwork – Port of Leith to Bernard Street

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.
Track work & carriageway changes from BDDI to IFC have yet to be agreed.
Change estimates on utility transferred by *tie* have not been agreed.
Commencement date is dependent on completion of utility diversions by *tie*.
IFC scope of works anticipated completion date is 19 December 13, 204 weeks later than indicated on Programme Rev 1.

Port of Leith Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.
IFC scope of works completion date is 2 October 12, 131 weeks later than indicated on Programme Rev 1.

Trackwork – Bernard Street to Foot of the Walk

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.
Change estimates on utility transferred by *tie* have not been agreed.
Commencement date is dependent on completion of utility diversions by *tie*.
Commencement date is dependent on completion of archaeological works by *tie*.
IFC scope of works anticipated completion date is 24 May 13, 142 weeks later than indicated on Programme Rev 1.

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Bernard St Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 3 December 13, 165 weeks later than indicated on Programme Rev 1.

Section 1B Foot of Leith to McDonald Road

Foot of the Walk to Balfour Street

Progress

No activities carried out during period.

Issues and concerns

IFC scope of works anticipated completion date is 17 December 13, 201 weeks later than indicated on Programme Rev 1.

Commencement date is dependent on agreement of change from BDDI to IFC.

Balfour Street to McDonald Road

Ch 110630 - 110920

Progress

No activities carried out during the period.

Issues and Concerns

Change estimates on utility transferred by *tie* have not been agreed.

Commencement date is dependent on completion of utility diversions by *tie*.

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works anticipated completion date is 3 April 14, 180 weeks later than indicated on Programme Rev 1.

Leith Walk Sub Station

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 15 November 11, 87 weeks later than indicated on Programme Rev 1.

Foot of the Walk Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

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IFC scope of works completion date is 16 January 13, 148 weeks later than indicated on Programme Rev 1.

Balfour St Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 18 July 12, 114 weeks later than indicated on Programme Rev 1.

**4.1.3.3 Section 1C McDonald Road to Princes St
Trackwork McDonald Road to Picardy Place**

Progress

No activities carried out during the period.

Issues and Concerns

Change estimates on utility transferred by *tie* have not been agreed.

Commencement date is dependent on completion of utility diversions by *tie*.

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works anticipated completion date is 16 October 13, 157 weeks later than indicated on Programme Rev 1.

McDonald Rd Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 5 November 12, 126 weeks later than indicated on Programme Rev 1.

Picardy Place Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 14 May 13, 139 weeks later than indicated on Programme Rev 1.

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Trackwork Picardy Place to St Andrew Square

Progress

No activities carried out during the period.

Issues and Concerns

Change estimates on utility transferred by *tie* have not been agreed.

Commencement date is dependent on completion of utility diversions by *tie*.

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works anticipated completion date is 15 October 13, 136 weeks later than indicated on Programme Rev 1.

Cathedral Lane Sub Station

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 10 January 12, 69 weeks later than indicated on Programme Rev 1.

St Andrew Square Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 11 November 11, 97 weeks later than indicated on Programme Rev 1.

Trackwork St Andrew Square to Princes St West

Progress

No activities carried out during the period.

Issues and Concerns

Change estimates on utility transferred by *tie* have not been agreed.

Commencement date is dependent on completion of utility diversions by *tie*.

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works anticipated completion date is 14 March 13, 157 weeks later than indicated on Programme Rev 1.

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Trackwork Waverly Bridge to Castle Street

Progress

Safety critical remedial works have been carried out during the period.

Issues and Concerns

Numerous elements of construction have yet to be completed.

Princes St Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Completion date is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 11 January 12, 70 weeks later than indicated on Programme Rev 1.

4.1.3.4 Section 1D Princes Street to Haymarket

Trackwork Castle Street to Lothian Road

Progress

Safety critical remedial works have been carried out during the period.

Issues and Concerns

Numerous elements of construction have yet to be completed.

Trackwork Lothian Road to Haymarket

Progress

No activities carried out during the period.

Issues and Concerns

Change estimates on utility transferred by *tie* have not been agreed.

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works anticipated completion date is 10 October 12, 109 weeks later than indicated on Programme Rev 1.

Shandwick Place Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 8 March 12, 112 weeks later than indicated on Programme Rev 1.

4.1.3.5 Section 2A Haymarket to Roseburn Junction

Haymarket Tram Stop

Progress

No activities carried out during the period.

Bilfinger Berger – Siemens – CAF Consortium

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.
IFC scope of works completion date is 28 September 11, 127 weeks later than indicated on Programme Rev 1.

Haymarket Station Viaduct

Progress

No activities carried out during the period.

Issues and Concerns

IFC scope of works anticipated completion date is 21 October 11, 136 weeks later than indicated on Programme Rev 1.
Completion is dependent on agreement of change to trackwork/roadworks on Haymarket Yards

Haymarket Sub Station

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.
IFC scope of works completion date is 28 October 11, 123 weeks later than indicated on Programme Rev 1.

Trackwork Haymarket to Russell Road

Progress

No activities carried out during the period.

Issues and Concerns

Completion is dependent on agreement of change BDDI to IFC
IFC scope of works anticipated completion date is 13 September 12, 150 weeks later than indicated on Programme Rev 1.

4.1.3.6 Section 5A Roseburn Junction to Balgreen Road

Russell Road Bridge

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is also dependent on agreement of change for protection measures to existing gas main.
Commencement date is dependent on agreement of change to revised temporary works, soil nailing
Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.
Commencement is dependent on agreement of change to revised pile cap and pile construction

IFC scope of works anticipated completion date is 18 January 12, 147 weeks later than indicated on Programme Rev 1.

Bilfinger Berger – Siemens – CAF Consortium

Russell Road Retaining Walls W3 & W4

Progress

No activities carried out during the period.

Issues and Concerns

Commencement of panels 1 - 9 is dependent on resolution of additional Scotrail requirements regarding specification of car park barrier system.

Commencement of panels 19 - 28 is dependent on agreement of change to Plot 97.

Commencement of panels 1 – 9 and 19 - 28 is dependent on agreement of change for alternative piling and pile cap construction.

Commencement is dependent on agreement of change for dealing with contaminated ground.

IFC scope of works anticipated completion date is 18 February 13, 172 weeks later than indicated on Programme Rev 1

Murrayfield Tram Stop Retaining Wall

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on resolution of plot 101 issue.

Commencement is dependent on agreement of change for dealing with contaminated ground.

SW revised connection requirements may delay commencement of drainage

IFC scope of works anticipated completion date is 23 November 12, 186 weeks later than indicated on Programme Rev 1.

Murrayfield Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 11 September 13, 165 weeks later than indicated on Programme Rev 1.

Track work Russell Road to Murrayfield Stadium

Progress

No activities carried out during the period.

Issues and Concerns

Commencement date is dependent on agreement of change from BDDI to IFC.

IFC scope of works anticipated completion date is 26 June 13, 160 weeks later than indicated on Programme Rev 1.

Bilfinger Berger – Siemens – CAF Consortium

Roseburn Street Viaduct

Progress

No activities carried out during the period.

Issues and Concerns

IFC design incomplete due to outstanding tie Change Order to allow design to be completed. Planning issues with CEC on detailed design.

IFC scope of works anticipated completion date is 26 June 12, 112 weeks later than indicated on Programme Rev 1.

Murrayfield Retaining Wall 21B

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for removal of additional soft material

Commencement date is dependent on agreement of change from BDDI to IFC.

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

Preliminary redesign of soft ground treatment has been completed. Further GI required to allow detailed design to progress.

IFC scope of works anticipated completion date is 12 December 12, 192 weeks later than indicated on Programme Rev 1.

Murrayfield Stadium Underpass

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for removal of additional soft material

Commencement is dependent on agreement of changes from BDDI to IFC.

Commencement is dependent on agreement of changes from BDDI to IF to structure 21B.

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

IFC scope of works anticipated completion date is 25 January 12, 154 weeks later than indicated on Programme Rev 1.

Murrayfield Retaining Walls 21D

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for removal of additional soft material

Commencement is dependent on agreement of changes from BDDI to IFC.

Preliminary redesign of soft ground treatment has been completed. Further GI required to allow detailed design to progress.

Bilfinger Berger – Siemens – CAF Consortium

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.
IFC scope of works anticipated completion date is 30 March 12, 138 weeks later than indicated on Programme Rev 1.

**Water of Leith Bridge
East Abutment**

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for removal of additional soft material

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

Redesign of soft ground treatment to wall 21D may delay commencement of construction activities.

Centre Pier

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on acceptance of revised sewer lining acceptance by Scottish Water

Commencement is dependent on agreement of change to revised SW diversion.

Commencement is dependent on agreement of change for protection of existing utilities.

West Abutment

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for protection of utilities within existing underpass.

Commencement is dependent on agreement of change for dealing with contaminated ground.

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

Superstructure

Progress

No activities carried out during the period.

Issues and Concerns

IFC scope of works anticipated completion date is 15 February 12, 102 weeks later than indicated on Programme Rev 1.

Bilfinger Berger – Siemens – CAF Consortium

Baird Drive Retaining Wall

East Section

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for protection of utilities within existing underpass.

Commencement is dependent on agreement of change for dealing with contaminated ground.

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

IFC scope of works anticipated completion date is 1 March 12, 162 weeks later than indicated on Programme Rev 1.

Centre Section

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for protection of utilities within existing underpass.

Commencement is dependent on agreement of change for dealing with contaminated ground.

IFC scope of works anticipated completion date is 1 March 12, 162 weeks later than indicated on Programme Rev 1.

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

West Section

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for protection of utilities within existing underpass.

Commencement is dependent on agreement of change for dealing with contaminated ground.

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

IFC scope of works anticipated completion date is 1 March 12, 162 weeks later than indicated on Programme Rev 1.

Balgreen Bridges

East Abutment

Progress

No activities carried out during the period.

Bilfinger Berger – Siemens – CAF Consortium

Issues and concerns

Commencement is dependent on agreement of change for dealing with contaminated ground.

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

West Abutment

Progress

No activities carried out during the period.

Issues and concerns

Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

Superstructure

Progress

No activities carried out during the period.

Issues and concerns

IFC scope of works anticipated completion date is 20 July 12, 131 weeks later than indicated on Programme Rev 1.

Trackwork Murrayfield Stadium to Balgreen Road

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of changes from BDDI to IFC.

IFC scope of works anticipated completion date is 30 May 13, 129 weeks later than indicated on Programme Rev 1.

Balgreen Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 5 Dec 12, 182 weeks later than indicated on Programme Rev 1.

Jenners Sub Station

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 12 September 11, 117 weeks later than indicated on Programme Rev 1.

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**4.1.3.7 Section 5B Balgreen Road to Edinburgh Park Central
Trackwork Balgreen Road – Carrick Knowe**

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for below ground obstructions.

Track work changes from BDDI to IFC have yet to be agreed.

Earthworks changes from BDDI to IFC have yet to be agreed.

Completion date is dependent on agreement of changes from BDDI to IFC.

IFC scope of works anticipated completion date is 16 May 12, 158 weeks later than indicated on Programme Rev 1.

Carrick Knowe Bridge

Progress

No activities carried out during the period.

Issues and Concerns

IFC scope of works anticipated completion date is 23 June 11, 116 weeks later than indicated on Programme Rev 1.

Track work Carrick Knowe – Guided Busway

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change to W500.

Track work changes from BDDI to IFC have yet to be agreed.

Earthworks changes from BDDI to IFC have yet to be agreed.

Completion date is dependent on agreement of changes from BDDI to IFC.

IFC scope of works anticipated completion date is 23 June 11, 116 weeks later than indicated on Programme Rev 1.

Stenhouse Drive Retaining Wall

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of changes BDDI to IFC.

Track work Guided Busway

Progress

No activities carried out during the period.

Issues and Concerns

Completion date is dependent on agreement of changes from BDDI to IFC.

IFC scope of works anticipated completion date is 23 June 11, 116 weeks later than indicated on Programme Rev 1.

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Saughton Place Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.
IFC scope of works completion date is 19 July 11, 109 weeks later than indicated on Programme Rev 1.

Track work Guided Busway to South Gyle Access Bridge

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for dealing with contaminated ground at Bankhead Drive/South Gyle Access Bridge.
Track work changes from BDDI to IFC have yet to be agreed.
IFC scope of works anticipated completion date is 3 May 12, 161 weeks later than indicated on Programme Rev 1.

Bankhead Retaining Wall

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for dealing with contaminated ground.
Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.
IFC scope of works anticipated completion date is 4 July 11, 154 weeks later than indicated on Programme Rev 1.

South Gyle Access Bridge

East Abutment

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for dealing with contaminated ground.
Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

West Abutment

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for dealing with contaminated ground.

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Commencement is dependent on agreement of additional requirements required by Network Rail for inclusion within the track monitoring plan.

Superstructure

Progress

No activities carried out during the period.

Issues and Concerns

IFC scope of works anticipated completion date is 13 January 12, 155 weeks later than indicated on Programme Rev 1.

Bankhead Sub Station

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 19 July 11, 114 weeks later than indicated on Programme Rev 1.

Bankhead Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 2 July 12, 164 weeks later than indicated on Programme Rev 1.

Track work South Gyle Access Bridge to Edinburgh Park

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change for dealing with contaminated ground at Bankhead Drive/South Gyle Access Bridge.

Commencement is dependent on agreement of change for existing utilities which require diversion/protection.

Track work changes from BDDI to IFC have yet to be agreed.

IFC scope of works anticipated completion date is 8 February 12, 157 weeks later than indicated on Programme Rev 1.

Edinburgh Park Bridge

Progress

No activities carried out in the period.

Issues and Concerns

Recommencement is dependent on agreement of changes from BDDI to IFC

DKE issues at OLE foundations unresolved.

Containment plinth level tolerance unresolved.

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IFC scope of works anticipated completion date is 29 April 11, 97 weeks later than indicated on Programme Rev 1.

Edinburgh Park Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.
IFC scope of works completion date is 16 March 12, 154 weeks later than indicated on Programme Rev 1.

Track Work Edinburgh Park Station – Edinburgh Park Central

Progress

No activities carried out during the period.

Issues and Concerns

Track work changes from BDDI to IFC have yet to be agreed.
Earthworks changes from BDDI to IFC have yet to be agreed.
Commencement is dependent on agreement of change to contamination / Hogweed.
Commencement is dependent on agreement of change on clashes with existing utilities.
IFC scope of works anticipated completion is 17 January 12, 118 weeks later than indicated on Programme Rev 1.

Edinburgh Park Central Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.
IFC scope of works completion date is 31 January 12, 111 weeks later than indicated on Programme Rev 1.

4.1.3.8 Section 5C Edinburgh Park Central to Gogarburn

Trackwork Edinburgh Park Central – Gyle Centre

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change to trackwork
Commencement is dependent on agreement of change on clashes with existing utilities.
Completion date is dependent on agreement of changes from BDDI to IFC.
IFC scope of works anticipated completion is 18 April 12, 158 weeks later than indicated on Programme Rev 1.

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Gyle Tram Stop Retaining Wall

Progress

No activities carried out during period.

Issues and Concerns

Commencement is dependent on agreement of changes to Utility Diversions.
IFC scope of works anticipated completion is 31 August 11, 164 weeks later than indicated on Programme Rev 1.

Gyle Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.
IFC scope of works completion date is 24 May 12, 157 weeks later than indicated on Programme Rev 1.

Depot Access Bridge

North Abutment

Progress

None

Issues and Concerns

None

South Abutment

Progress

Structural backfilling has continued in the period.

Issues and Concerns

None

Centre Pier

Progress

None works complete

Issues and Concerns

None

Superstructure

Progress

Fixing of deck reinforcement has continued in the period.
Deck pour has been completed in the period.

Issues and Concerns

IFC scope of works anticipated completion is 25 May 11, 69 weeks later than indicated on Programme Rev 1.

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A8 Underpass

Phases 1 & 2

Progress

No activities carried out during period.

Issues and Concerns

Recommencement is dependent on agreement of changes from BDDI to IFC.
Recommencement is dependent on agreement of change order for unforeseen ground conditions ie. variable rock head has yet to be agreed.
Recommencement is dependent on agreement of change order for dealing with existing utilities.

Phase 3

Progress

No activities carried out during period.

Issues and Concerns

Commencement is dependent on agreement of change within Phases 1, 2 & 4.

Phase 4

Progress

No activities carried out during period.

Issues and Concerns

Recommencement is dependent on agreement of changes from BDDI to IFC.
Recommencement is dependent on agreement of change order for unforeseen ground conditions ie. variable rock head has yet to be agreed.
Recommencement is dependent on agreement of change order for dealing with existing utilities.

Tunnel Construction

Progress

No activities carried out during period.

Issues and Concerns

Commencement is dependent on agreement of change within Phases 1, 2 & 4.

IFC scope of works anticipated completion is 19 July 12, 154 weeks later than indicated on Programme Rev 1.

Track work Gyle Centre to Depot Stop

Progress

No activities carried out during period.

Bilfinger Berger – Siemens – CAF Consortium

Issues and Concerns

Commencement is dependent on agreement to drainage changes within Section 6 Depot

Track work changes from BDDI to IFC have yet to be agreed.

Earthworks changes from BDDI to IFC have yet to be agreed.

IFC anticipated completion is 21 November 12, 113 weeks later than indicated on Programme Rev 1.

Track Work Depot Stop – Gogarburn

Progress

No activities carried out during period.

Issues and Concerns

Commencement is dependent on agreement to drainage changes within Section 6 Depot

Track work changes from BDDI to IFC have yet to be agreed.

IFC anticipated completion is 6 September 11, 91 weeks later than indicated on Programme Rev 1.

Depot Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 28 November 11, 95 weeks later than indicated on Programme Rev 1.

4.1.3.9 Section 6A Depot

Earthworks/Drainage

Progress

No activities carried out during period.

Issues and Concerns

Recommencement is dependent on agreement of hard standings changes from BDDI to IFC.

Interface with future Gogar Interchange (Network Rail/Tram) may delay completion.

Ongoing IFC works may have to be aborted, depending on details provided within Edinburgh Gateway design

Completion date is dependent on agreement of drainage changes from BDDI to IFC.

IFC anticipated completion is 21 April 11, 124 weeks later than indicated on Programme Rev 1.

Trackwork

Progress

No activities carried out during period.

Issues and Concerns

Bilfinger Berger – Siemens – CAF Consortium

Recommencement is dependent on agreement to drainage changes within Section 6 Depot

Recommencement is dependent on agreement of changes to track work.

Recommencement is dependent on agreement of OLE foundation changes from BDDI to IFC

IFC anticipated completion is 13 May 11, 85 weeks later than indicated on Programme Rev 1.

Depot Building

Progress

Internal fit out has continued in the period.

Electrical testing/ commissioning has continued in the period.

Remedials to track plinths have been completed in the period.

Issues and Concerns

Finishing works are being disrupted by non availability of non agreed estimates.

Numerous Changes from BDDI to IFC have yet to be agreed.

Non availability of water supply will delay completion of commissioning.

SW non approval of water main specification remains unresolved.

SW approval of revised route for water main connection remains unresolved.

As a consequence of non agreement of change the building has no foul or storm drainage outfall.

IFC anticipated completion is 5 April 11, 77 weeks later than indicated on Programme Rev 1.

Depot Substation

Progress

No activities carried out during period

Issues and Concerns

Changes from BDDI to IFC have yet to be agreed.

Substation is substantially complete. 85 weeks later than indicated on Programme Rev 1.

Access Roads/Car Parks

Progress

No activities carried out during period

Issues and Concerns

Recommencement is dependent on agreement of hard standings changes from BDDI to IFC.

IFC anticipated completion is 13 June 11, 92 weeks later than indicated on Programme Rev 1.

4.1.3.10 Section 7A Gogarburn to Edinburgh Airport

Gogarburn to Ingliston Park & Ride

Trackwork Ch710000 – Ch710390

Progress

No activities carried out during period.

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Issues and Concerns

Commencement of slope stability works is dependent on agreement of changes from BDDI to IFC.

Commencement is dependent on agreement of track form changes from BDDI to IFC.

Commencement is dependent on agreement of OLE changes from BDDI to IFC.

Commencement is dependent on agreement of duct changes from BDDI to IFC.

IFC anticipated completion is 10 February 12, 92 weeks later than indicated on Programme Rev 1.

Gogarburn Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.

IFC scope of works completion date is 26 October 11, 90 weeks later than indicated on Programme Rev 1.

Gogarburn Bridge

Progress

Remedial works to track plinths have commenced in the period.

Issues and Concerns

Track work Ch710420 – Ch711600

Progress

No activities carried out during the period.

Issues and Concerns

IFC anticipated completion is 10 February 12, 92 weeks later than indicated on Programme Rev 1.

Commencement is dependent on agreement of track form changes from BDDI to IFC.

Commencement is dependent on agreement of OLE changes from BDDI to IFC.

Commencement is dependent on agreement of duct changes from BDDI to IFC.

Commencement is dependent on agreement of NIL future proofing changes. .

Incorporation of future proofing works at NIL may delay completion

IFC anticipated completion is 10 January 12, 88 weeks later than indicated on Programme Rev 1.

Ingliston Tram Stop

Progress

No activities carried out during the period.

Bilfinger Berger – Siemens – CAF Consortium

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.
IFC scope of works completion date is 24 January 12, 101 weeks later than indicated on Programme Rev 1.

Ingliston Sub Station

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of change from BDDI to IFC.
IFC scope of works completion date is 19 July 11, 74 weeks later than indicated on Programme Rev 1.

Ingliston Park & Ride to Edinburgh Airport

Trackwork Ch711600 – Ch712200

Progress

No activities carried out during the period.

Issues and Concerns

Commencement is dependent on agreement of track form changes from BDDI to IFC.

Commencement is dependent on agreement of OLE changes from BDDI to IFC.

Commencement is dependent on agreement of duct changes from BDDI to IFC.

Commencement is dependent on agreement of NIL future proofing changes.

Incorporation of future proofing works at NIL may delay completion

Completion date is dependent on agreement of changes from BDDI to IFC.

IFC anticipated completion is 1 June 12, 108 weeks later than indicated on Programme Rev 1.

Track work Ch712200 – Ch712580

Progress

No activities carried out during the period.

Issues and Concerns

Redesign of Walls W14C may delay track completion.

Commencement is dependent on agreement of track form changes from BDDI to IFC.

Commencement is dependent on agreement of OLE changes from BDDI to IFC.

Commencement is dependent on agreement of duct changes from BDDI to IFC.

IFC anticipated completion is 1 June 12, 108 weeks later than indicated on Programme Rev 1.

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Gogarburn Wall W14C

Progress

No activities carried out during period.

Issues and Concerns

Redesign of walls W14C is incomplete.

Construction of redesign will delay completion of trackwork

Commencement is dependent on agreement of changes from BDDI to IFC.

IFC anticipated completion is 25 January 12, 150 weeks later than indicated on Programme Rev 1.

Edinburgh Airport Tram Stop

Progress

No activities carried out during the period.

Issues and Concerns

CEC/BAA Planning approval outstanding.

Commencement is dependent on agreement of changes from BDDI to IFC.

IFC anticipated completion is 11 July 12, 106 weeks later than indicated on Programme Rev 1.

4.2 E&M SYSTEMS

4.2.1 OLE (Overhead Line Equipment)

Design

No update since last report.

Approvals and Consents

Pre sub-submission held between Infraco & CEC re. Haymarket Tramstop Batch. Infraco to undertake actions prior to formal submission. Currently without impact on the construction programme, due to prioritisation of building fixing conflict resolution.

A submission has been made to CEC to close out 7 of the remaining technical Informatives associated with the Overhead Line Equipment

Issues and Concerns

Programme issues remain unchanged from last report.

Production

No update since last report.

4.2.2 TPS (Traction Power Substations)

Design

No update since last report.

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Approvals and Consents

No update since last report.

Issues and Concerns

Same comments as in all previous monthly reports. Discontinuous work for installation of upcoming substations.

Production

Gogar Depot Traction Power Sub Stn was successfully connected and tested onto Scottish Power 11kv.

4.2.3 TRW (Trackwork)

Design, submittals to *tie* in the reporting period:

- Track Layout Section 5A (#055901 - #055905) Rev.C – Minor changes
- Track Layout Section 5B (#055914 - #055915) Rev.E – Minor changes
- Track Layout Section 6 (#055962) Rev.F – Minor changes
- Track Layout Section 7 (#055975 - #055976) Rev.D – Minor changes
- Track Layout Section 7 – NIL Future Proofing (#055987 - #055989) Rev.A

Approvals and Consents, RoR's

- Designs reviewed and endorsed by *tie* with Level A or B in the reporting period:

Issues and Concerns

- Groundborne Noise and Vibration measures have been shown to be necessary and have been endorsed Level B by *tie*. Trackwork Rheda City Floating Slab design has been produced and submitted by Infraco in good faith, design estimate rejected by *tie*. Further design is necessary by SDS but the design estimate has been rejected by *tie*. This is the subject of ongoing correspondence with *tie*, but is causing delay to completion of design. Following agreement of the design, an Estimate for the additional work will be submitted.

- The design for locations as listed below cannot be finalised unless the as-built documentation of the underground utilities is available::

275 kV cable - Arthur Street to Dalmeny Street
 Scottish Power Tunnel - Leith Walk
 Culvert on North Street Section of Constitution Street

- Changes in Design and *tie* Change Orders may influence the TRW programme, impact is continuous and summarized e.g. in Programme Rev 3A (rejected by *tie*).
- Ground conditions and utilities that cannot be / have not been relocated to lower levels may influence the TRW design and programme.
- Infraco records its concern at *tie's* misuse of the Review Procedure as set out in Schedule Part 14. In particular:

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- Changing endorsements to a lower level, sometimes after a significant period without contractual basis
- Making level C endorsements with invalid grounds for objection
This is frustrating Infraco's efforts to close out the design and will cause delays.
- Infraco continues to pursue closure of the trackwork Informatives and a resolution to Princes Street and, to this end, a meeting was held between Infraco and tie/CEC on 23 February 2011.

Production

- Guided Busway: Works around the gully outlets (direct fixation) almost finished; grouting works for direct fixation ongoing. (pending on weather condition)
- Workshop: Trackwork construction track 2, 3 and 4 west side and track 1, 2, 3 and 4 east side including apron, preparation of trackwork construction track 1 west side
- Preparation of area 2c for track installation
- Installation crossing area 1 with joints sealing has been finished
- Carry on with completion area 1, 2a and 2b (placing 2nd stage ballast and fishplating)
- Carry on with delivery of turnouts area 4

Following production activities are planned within the reporting period:

- Guided Busway Final works around the gully outlets;
- S&C production ongoing, subsequent delivery of depot turnouts
- Starting trackwork construction at the depot; Area 2c track installation. It is anticipated that disruption will be encountered, but no other sites are yet available due to MUDFA, lack of agreement on Estimates, and other reasons explained in all monthly reports and correspondence.
- Preparation Edinburgh Park Station Bridge and Edinburgh Park Station for track construction.
- Preparation of track installation at Gogarburn Bridge.
- Preparation of track installation Section 7.
- Preparation of track installation Section 2.

4.2.4 DWE (Depot Workshop Equipment)**Design**

The status remains unchanged compared to period report 3-12.

Approvals and Consents

The status remains unchanged compared to period report 3-12.

Issues and Concerns

In order to finish the outstanding DWE procurement on trackwork maintenance tools and measuring equipment, final confirmation by tie on the topic Value Engineering / Trackwork Maintenance equipment is required.

Delays to Site Availability

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For track work tools and welding equipment the procurement depends on *tie's* decision as mentioned above.

Production

The main status remains unchanged compared to period report 3-12.
The second FAT has been successfully performed on the Service Vehicles.
Some minor open issues are still to be clarified prior to delivery to Edinburgh.

Installation

Installation of shelving within the storage areas has started.
Installation activities for crane, washing plant technical room and compressor station have also started.
Next installation activities will be the Underfloor Lifting Plant and the Underfloor Wheel Lathe as well as tool storage and small shop machinery.

4.2.5 Signalling, Communication, SCADA, PIS, PA

Design

Signalling

Status Design Close Out:

- SPM-RA-SIG-0301 Detailed Design TPDS Onboard Computer => Letter issued 8/10/2009
- SPM-RA-SIG-0302 Detailed Design TPDS Transmission System IMU 100 => resubmitted
- SPM-RA-SIG-0303 ETN - SIG: Detailed Design Sicas S7 Interlocking=> resubmitted
- SPM-RA-SIG-0304 Detailed Design Vicos OC100 => resubmitted
- SPM-RA-SIG-0305 Detailed Design Vicos OC100 Archive => Level A
- SPM-RA-SIG-0307 Detailed Design Vicos OC100 Views=> resubmitted
- SPM-RA-SIG-0308 Detailed Design Point Heater Controller=> resubmitted

SCADA, PIS, PA (RailCom Manager), PABX, Radio

All detailed designs have been submitted to *tie*, and all ROR comments have been responded to. Review clarification meeting was held on RailCom Manager Design, several follow-up meetings were held as well, closeout of ROR comments is progressing.

Approvals and Consents

Information for formal submissions for consent of PID, PA, PHP has been provided in support of overall Tramstop submission which has been incorporated in overall Infraco Tramstop submission. Tramstop informative workshops are ongoing with CEC.

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Status CEC Informatives SIG

- Earth boxes located in on-street section have to fulfil load of 40 tons equivalent to EN124 D400. Certificate has to be provided.
- Colours of Interlocking Cabinets are not in line with Appendix 19, Revision 13 that is not released by CEC. However, cabinets are already purchased. Clarification is essential especially with regard to installation of Depot East and West.

Issues and Concerns

Ticket Vending Machine details – Meeting held with *tie* to agree on the COM/SCADA requirements for LAN, SCADA & Power (19/10/10). From the meeting a proposal was submitted to *tie* for their review/acceptance.

COM have major concerns with regard to the revisiting of the previously approved (level B) detailed design for the PABX by *tie*. Based on this approval the equipment has been procured & FAT tested ready for delivery to site. The latest revision submitted addressing previous comments by *tie* has now been given a Level C rejection by *tie* on areas not previously commented upon by *tie*

Still require planning approval for the Tramstop equipment from *tie* & CEC to enable the procurement of the related COM equipment e.g. PA Loudspeakers, PHP etc.

The re-submission of appendix 19/1 relating to the paint finishes of network equipment needs to be clarified that the changes to the requirements are correct as these changes have a great impact on the items already procured to the previous issue of this formal document.

The lack of a Traffic Light Controls interface partner is preventing conclusion of signalling design. This will affect all three interfaces; civils (ductwork etc), cabling and communication/ information.

Nomenclature still open preventing conclusion of signalling design

Tram Detector Report (SDS) not approved preventing conclusion of signalling design

Production

Minor works have been carried out in the Gogar Depot OCC to install the cable for the CCTV Monitor Arrays & VICOS Mimic Display whilst other works were being carried out in that area.

Gogar Depot Equipment Room COM/SCADA installation works scheduled to commence w/c 21st March 2011. This will comprise on the installation of the COM/SCADA racks and the cabling of the racks to the structured cabling rack within the equipment room.

Note: Although procurement has been deliberately postponed as a cost mitigation measure, any residual risk of extended storage, expiration of

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manufacturer warranties, obsolescence of electronic items, risk of theft, loss or damage of the delivered equipment will be attributed to the ongoing EOT discussions.

4.2.6 TLC (Traffic Light Control)

Issues and Concerns

Infraco have received no further instructions or contract to proceed with any traffic signal installation on the ETN project other than works completed on Princes Street (December 2009). The corresponding Estimate is in negotiation with *tie* for some time, but no *tie* Change Order has been issued.

4.2.7 HV/LV – Supply

Design

No comments

Approvals and Consents

Substation lease now concluded at Ingliston. Jenners Depository has all way-leaves in place. The solutions identified by Infraco have extra costs for Scottish Power re-enforcement works. Scottish Power to provide further justification.

Bankhead way-leave is currently with the council and was expected to have been completed by the end of January 2011.

Issues and Concerns

Way-leaves still required on the remaining sites.

Production

No comments.

4.2.8 RFI Status (E&M)

Total	47
Closed out	42
Responded by <i>tie</i> but require further clarification	05

4.3 TRAMS

See CAF programme update Planning_Edinburgo_27Tram_300408_act 080311 (Appendix 10.4).

4.3.1 Design

Detailed design is considered finished except for the free issue equipment system for which there is not enough information.

Free issue equipment to CAF, this definition refers to:

- TPDS and Radio supplied by Siemens, closed.

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- Bus Tracker supplied by *tie*

4.3.2 Procurement

Procurement for the trams is going according to programme.

4.3.2.1 Delivery of Materials

All materials to complete the assembly of the full fleet have been delivered in CAF.

For the materials that are not available, CAF will evaluate the impact of not having the materials delivered and available as is necessary to meet manufacturing programme. Meanwhile, the trams will be assembled without those materials.

4.3.3 Manufacturing

CAF manufacturing process started at beginning of December 2008.

The manufacturing status is detailed on document "Estado de fabricación Edimburgo 08-03-2011".

- Bodyshe'll manufacturing for the complete fleet has been achieved.
- Bodyshe'll painting for the complete fleet has been achieved.
- The only three tram units (TU 25, TU26 and TU 27) are still in the finishing area.
- TU 24 is in the testing area.

Due to the lack of depot in which to proceed with start delivering trams, CAF has modified its manufacturing rate as a mitigation measure to reduce the overall cost incurred due to delays on the project.

CAF has presently 23 tram units (by the date of the Progress Meeting TU 23 will be ready for delivery) available for delivery, upon request. This amount of trams is enough to achieve the contractual milestones.

The total number of trams to be delivered is 27.

4.3.4 Testing in CAF Irun

CAF intends to test all equipment on the different phases of the testing process (CAF premises, Test Track and Edinburgh Tram Network) according to the protocols agreed with the customer and in cooperation with the suppliers of each equipment, including Free Issue Equipment delivered by Siemens (TPDS and Radio) and *tie* (Bus Tracker).

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With the material and information available today CAF will perform as many of the agreed tests as possible.

Testing for TU 23 has been achieved and testing for TU 24 shall be achieved by the end of March 11.

4.3.5 Dynamic testing at Wegberg-Wildenrath

CAF performed static and dynamic tests for tram No1 and tram No 2 at the Wegberg-Wildenrath Test and Validation Centre of Siemens at the beginning of the year 2010. Since UT1 has been moved back to CAF Irun where it was unloaded at the beginning of January 11 and UT2, having satisfactorily performed all its dynamic tests, was sent to Edinburgh in April 10.

Therefore this dynamic test chapter is fully closed.

4.3.6 Delivery of Trams to Edinburgh

CAF was ready to deliver trams to Edinburgh according with its contractual programme but there was, and still there is, no depot available to receive the trams.

The first tram delivered (UT2) was unloaded on 25 April 10 at Princes Street according to the MoV of ~~the~~ Change Order 152.

Presently, unit 1 has its Factory Acceptance Type Test Certificate delivered and unit 2, unit 3, unit 4, unit 5, unit 6, unit 7, unit 8, unit 9, unit 10, unit 11, unit 12, unit 13, unit 14, unit 15, unit 16, unit 17, unit 18, unit 19 and unit 20 have their correspondent Factory Acceptance Routine Test Certificates delivered by the Tram Inspector. Unit 21 and unit 22 should have their certificate delivered soon.

4.3.7 Tram Storage

CAF has no storage facilities available.

As the depot is not ready and CAF has received no instructions regarding storage, CAF has proceeded according to its Contractual obligations in order to deal with the storage issue.

CAF has been forced to make some works inside CAF premises in Irun in order to prepare some parking facilities. The area available is able to park 12 trams. At the moment the finished trams are located at the following places:

- Tram Unit 2 in Edinburgh under MoV of ~~the~~ Change Order 152 and Minute of Variation dated 23 April 10.
- Tram units at CAF Irun. UT 7, 8, 9, 11, 19, 20, 21, 22 and 23.
- Tram units at RENFE Irun: UT1, 3, 4, 5, 6, 10, 12, 13, 14, 15, 16, 17 and 18.

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4.4 SYSTEMS INTEGRATION

4.4.1 EMC

4.4.1.1 Earthing & Bonding

Clarification of individual civil structures is ongoing.

Checking of SDS drawings against the requirements specified in the CVIs for IDR/IDC.

4.4.1.2 Stray Current

Investigation of possibly affected utilities started. Individual utilities are indicated and will be clarified whether a risk may exist.

4.4.1.3 Network Rail Immunisation

Draft test procedure for Immunisation measurements has been provided to NWR and *tie* informally.

Please refer to chapter 4.4.2.2 in addition.

4.4.2 System Assurance

4.4.2.1 Deliverables / Documents Issued

- Preliminary Case for Safety (CfS)
 - All Cases for Safety now at Level A or B. Those at Level B, plan agreed with PSCC and ICP to incorporate outstanding comments in next phase of project as part of the Staged Case for Safety process.
- Immunisation
 - See section 4.4.2.3

4.4.2.2 Activities completed

- Hazard Log Update –
 - PSCC Sub-Committee report Meeting held with PSCC Sub-committee chairman to review responses. Hazard Log to be updated and further response to be provided to committee chairman.

4.4.2.3 Activities Ongoing and Planned:

- Immunisation–
 - Hazard Mitigation - Design mitigation being reviewed with objective of being able to close hazards from a design perspective
- Hazard Log Management –

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- Update and manage Hazard Log based on Hazard owner’s responses (ongoing). Hazard Log to be updated and further response to be provided to PSCC Sub-committee chairman, who will confirm if the hazard has been controlled so Far As Is Reasonably Practicable (SFAIRP) . (see Section 4.4.2.2)
- Control Room HFI Assessment–
 - Manage HFI Issues Log as identified in HFI OCC Report (ongoing)

4.4.2.4 Regular activities and attendances:

- As well as the above a number of other activities are ongoing such as regular attendance at the following meetings; PSCC, PSCC Sub-Committee, ICP Liaison Meetings.

4.5 TESTING, COMMISSIONING AND START-UP

Gogar Depot Traction Power Sub Station was successfully connected and tested onto Scottish Power 11kv.

5 NOT USED

6 STAKEHOLDER AND THIRD PARTY ISSUES

No further Discussions have been held on the subject to agree how *tie’s* existing Stakeholder Management and Communications team can be best used to mutual advantage. Infraco are willing in principle to contribute in kind or cost transfer to supplement this team, rather than duplicating resources to comply with the specific requirements of the Employer’s Requirements as drafted.

7 COMMERCIAL

7.1 Milestones

Preliminaries Amounts Achieved in the Period:

Month 41 Preliminaries (BB)

Month 41 Preliminaries (S)

Construction Milestones Achieved in the Period

1269	Depot Building	Fitting out and finishes - Ground Floor	185,376.33
A17210	Depot Building	Building Envelope - Ext Door	185.376.33

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CAF

VBN-11021553	Delivery of 22nd Tram	110,083.25
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7.2 Change Management

7.2.1 The Infraco Change Register is presented in Appendix 10.7.

812 Changes have been notified to 11 March 2011 - 105 by *tie* and 707 by Infraco.

137 of these Changes have been superseded by further Changes or withdrawn therefore there are 675 current Changes.

Of the 675 notified Changes, 350 have been accepted in principle, 128 have been rejected and 197 have neither been accepted nor rejected by *tie*.

87 Changes have a delay only impact and will not require a design/construction Estimate (the impact of these is reflected in the various entitlement programmes submitted to *tie*).

Therefore there are 588 Changes requiring Estimates.

Infraco has submitted Estimates for 543 Changes for design only or for design and construction works to *tie* and 3 delay only Estimates

The total Infraco value of the submitted Estimates is £165,797,161 which includes £12,714,398 for non-scope work on Bernard Street and St Andrew Square and £20,140,355 for INTC's impacting on Sectional Completion A.

213 of the 543 submitted Estimates have been agreed by issue of a *tie* Change Order. **The value of Change Orders issued by *tie* is £25,829,137.**

There are 28 Design Estimates that require to be formally submitted which are the subject of ongoing discussions.

There are 73 remaining notified Changes for which Construction Estimates are required. It is not possible to prepare 13 of those Construction Estimates until either an SDS design Estimate is received, validated by Infraco and approved by *tie*, and/or the required information is obtained from the SDS Provider.

There are a further 26 Changes which have been notified which are currently being reviewed as they may be included within other Construction Estimates already submitted.

Prioritisation of the remaining Estimates is aligned with the latest intended construction sequence.

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A graphical pie chart is presented in Appendix 10.7.

Included in a number of *tie's* Change Order Pro-formas; "Relief required from compliance with Infraco obligations under the contract", "Programme impact and required Extension of Time", "Impact on Performance" remains unresolved for a number of the Changes.

The main reasons for not issuing Change Orders are: Change not agreed in principle, Estimates not yet submitted, figures in estimates not agreed, Base Date Design Information not agreed.

tie has responded to a number of submitted Estimates asserting that the identified Change is normal development and completion of design. Infraco generally rejects this assertion.

The complexity, nature and amount of changes have overloaded the change mechanism included in the Infraco Contract, because the Estimates cannot be submitted within the time frame requested in the Infraco Contract and also due to the fact that the overall impact to the Programme from a given change cannot be assessed on an individual basis. It has been agreed between *tie* and Infraco that the estimates submitted by Infraco will only deal with direct related effects (costs) of each Change. Time related effect will be assessed separately.

Dispute Resolution Procedure (DRP):

(Note: Bold text indicates Ongoing Disputes)

- Dispute A – Princes Street Works
Referred by *tie* 19 February 2009
Settlement reached in Mediation (Princes Street Supplemental Agreement).
- Dispute B – 17.5% Uplift for Civil Engineering Works
Referred by *tie* 19 February 2009
Settlement reached in Mediation.
- Dispute 01 – Valuation of EOT1 (INTC No.1)
Referred by *tie* 11 August 09
Settlement reached in Mediation for valuation of Bilfinger Berger and Siemens elements only – valuation of CAF element excluded from settlement.
- Dispute 02 – Hilton Car Park
Referred by *tie* 11 August 09
Adjudicator awarded redress sought by *tie*.
- Dispute 03 – Gogarburn Bridge
Referred by *tie* 24 August 09
Adjudicator rejected redress sought by *tie*.
- Dispute 04 – Carrick Knowe Bridge
Referred by *tie* 24 August 09
Adjudicator rejected redress sought by *tie*.
- Dispute 05 – Russell Road Retaining Wall 4
Referred by Infraco 4 September 09

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- Adjudicator awarded redress sought by Infraco.
- Dispute 06 – Delays Arising from MUDFA Programme Rev 8
Referred by Infraco 4 September 09
Adjudicator accepted the principle arguments put forward by Infraco however felt only able to award part of the redress sought by Infraco due to a perceived requirement for additional information.
- Dispute 07 – Haymarket Viaduct
Referred by *tie* 9 October 09
Settlement reached during Internal DRP.
- Dispute 08 – Baird Drive Retaining Wall
Referred by *tie* 15 January 10
Settlement reached during Internal DRP.
- Dispute 09 – Balgreen Road Retaining Wall
Referred by *tie* 15 January 10
Settlement reached during Internal DRP.
- Dispute 10 – Section 7A Drainage
Referred by *tie* 10 February 10
Adjudicator rejected redress sought by *tie*.
- Dispute 11 – Depot Access Bridge
Referred by Infraco 12 February 10
Adjudicator awarded redress sought by Infraco.
- Dispute 12 – Tower Place Bridge
Referred by *tie* 25 February 10
Adjudicator awarded redress sought by *tie*.
- Dispute 13 – Clause 80.13 Instruction
Referred by Infraco 21 May 2010
Adjudicator awarded redress sought by Infraco.
- Dispute 14 – Liability for Landfill Tax for Contaminated Material
Referred by Infraco 18 August 10.
Adjudicator awarded redress sought by Infraco
- Dispute 15 – Approval of Key Sub-Contractor sub-contracts
Referred by Infraco 26 August 10.
Adjudicator rejected redress sought by Infraco
- Dispute 16 – Payment of Preliminaries
Referred by Infraco 1 September 10.
Adjudicator awarded redress sought by Infraco.
- Dispute 17 – Section 7A Drainage – (Notified Departures 6&7)
Referred by Infraco 8 September 10.
Settlement reached during Internal DRP
- **Dispute 18 – Disputed Payment for Princes Street Works
Referred by Infraco 17 September 10.
Adjudication is ongoing.**
- Dispute 19 – Section 5B Drainage
Referred by *tie* 12 November 10
Settlement reached during Internal DRP.
- Dispute 20 – Section 5C Drainage
Referred by *tie* 12 November 10
Settlement reached during Internal DRP.

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- **Dispute 21 – Lindsay Road Lowering**
Referred by *tie* 30 November 10
Mediation took place 11 February 2011. Further discussions are continuing between the parties.
- **Dispute 22 – Bankhead Drive Retaining Wall**
Referred by *tie* 3 December 10
Settlement reached during Mediation held on 10 February 2011.
- **Dispute 23 – South Gyle Access Bridge**
Referred by *tie* 3 December 10
Settlement reached during Mediation held on 10 February 2011.
- **Dispute 24 – MUDFA 2 - Delays and Additional Costs arising from incomplete Utilities Works**
Referred by Infraco 18 January 11.
Mediation proposed by *tie*.
- **Dispute 25 – Section 5B – Roads, Street Lighting and Roads Drainage (INTC 204) – Referred by *tie* 01 February 2011.**
Internal DRP ongoing.
- **Dispute 26 – Section 5C – Roads, Street Lighting and Roads Drainage (INTC 205) – Referred by *tie* 01 February 2011.**
Internal DRP ongoing.
- **Dispute 27 – Section 2A – Roads, Street Lighting and Roads Drainage (INTC 212) – Referred by *tie* 01 February 2011.**
Internal DRP ongoing.
- **Dispute 28 – Section 5A – Roads, Street Lighting and Roads Drainage (INTC 528) – Referred by *tie* 01 February 2011.**
Internal DRP ongoing.
- **Dispute 29 – Section 5C – A8 Underpass W28 – Referred by *tie* 14 February 2011.** *tie* withdrew its Notice of Dispute on 21 February 2011.

Remediable Termination Notices (RTN's)

tie has raised the following RTN's:

1. Infraco Default (a): Defects on Princes Street (INF CORR 5764)
2. Infraco Default (a): Defects on Princes Street (INF CORR 5771)
3. Infraco Default (a): Clauses 10.4 and 10.6 – Failure to Provide Extranet and Information in Respect of Infraco Claims (INF CORR 5770)
4. Infraco Default (a): Clause 60 (INF CORR 5819)
5. Infraco Default (a): Bilfinger Berger / SDS Provider Minute of Agreement (INF CORR 5959)
6. Infraco Default (a): Design: Trackworks (INF CORR 5995)
7. Infraco Default (a): Failure to Progress Demolition Works at plots 97 and 102 Russell Road (INF CORR 6254)
8. Infraco Default (a): Clause 80 – *tie* Changes (INF CORR 6316)
9. Infraco Default (a): Breaches Evincing Course of Conduct (INF CORR 6318)
10. Infraco Default (a): Failure to Manage Design at Gogarburn Retaining Wall W14C and W14D (INF CORR 6422)

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Infraco has responded to RTN numbers 1 to 10 and have refuted their validity. *tie* has responded to Infraco's responses to RTN numbers 1 to 6 within the contractual time frames and to RTN number 10 woutwith the contractual timeframe (received in the reporting period) and *tie* has failed to respond to Infraco's responses to RTN numbers 7, 8 and 9.

Underperformance Warning Notices (UWN's)

tie has raised the following UWN's:

1. Infraco Default (a): Defects on Princes Street (INF CORR 5765)
2. Infraco Default (a): Clause 60 (Programme) (INF CORR 5992)
3. Design: Trackworks (INF CORR 6421)

Infraco has responded to all the UWN's and have refuted their validity. *tie* has responded to Infraco's responses.

8 RESOURCES

8.1 Organisation Charts

Consortium and Systems organisation charts are included in this report.

See Appendix 10.8.

9 OTHER ISSUES

No comments.

10 APPENDICES

10.1 Contractor Period HS&E Return

Contractor Period H.S. & E. Return



To be completed and returned to tie Ltd (Pauline Goldie Pauline.goldie@tie.ltd.uk) by the Thursday of week 1 for each period (a period is 4 weeks, for dates of start and finish please contact Pauline)

RETURN DATA

Contractor –

BSC

Date completed –

26/02/2011

Year –

10/11

Period –

3-12

PEOPLE DATA

Average number of direct employees on ETP –

91

Hours worked of direct employees on ETP –

14621

Average number of subcontract / others inc visitors on ETP –

125

Hours worked of subcontract / others inc visitors on ETP –

21019

Number of work sites –

3

INCIDENT DATA (leave blank if none)

	DIRECT	SUBCON	M.O.P.
Fatal			
Major			
Over 3 day			
Dangerous Occurrence			
Reportable Disease			
Injury – Non RIDDOR			
Near Miss/ Unsafe Condition		3	
Service Damage			
RTA (in and around ETP)			
Positive intervention (if measured)			
Environmental Incident			

ENFORCEMENT NOTICE / VISIT DATA

	NOTICE	VISIT
H.S.E Enforcement		
SEPA		
Local Authority		
Other		

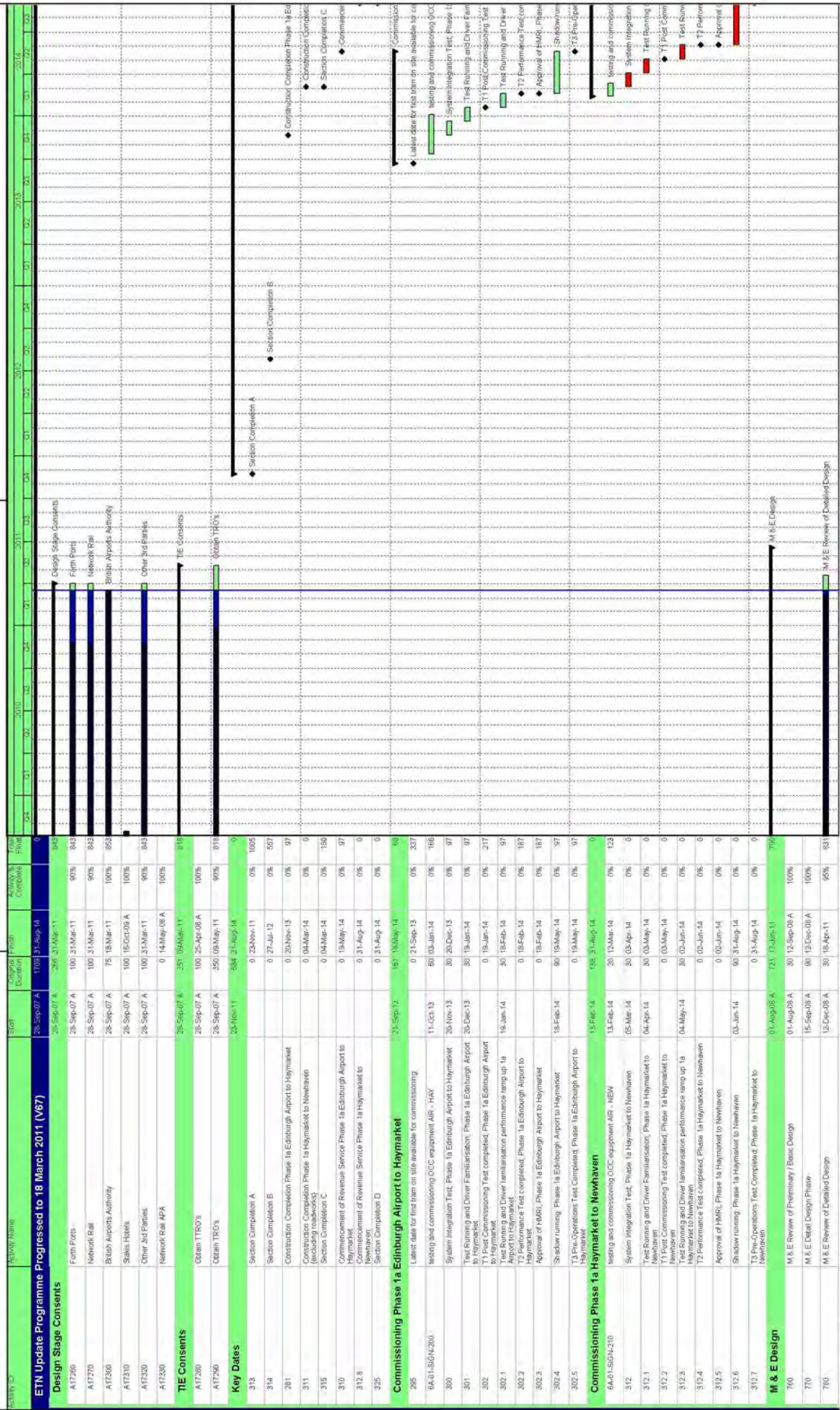
CONTRACTOR AUDIT / INSPECTION DATA

	PLANNED	ACTUAL
Inspections	12	10
Audits	-	-

Please supply supporting data for all RIDDORs, Service Damages and ENF visits if not previously submitted – Rev0

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10.2.1 Progressed Programme



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Legend:

- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone
- % Complete
- Summary

Revision: Approved

Checked: JAC

ETN Updated Programme - Progress to 18 Mar 11

Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Plan	2009	2010	2011	2012	2013	2014	2015	2016	2017
750	M & E Design Freeze	01-Aug-08 A	648	17-Jun-11	0%	831									
Railway Electrification															
A17080	SDS Issue Track Alignment Drawings	01-Aug-08 A	648	17-Jun-11	0%	831									
A17090	Basic Design TFS	01-Aug-08 A	100	05-Jan-09 A	100%	750									
A17110	Basic Design OCS	01-Aug-08 A	100	12-Dec-08 A	100%	750									
A17160	SDS Design OLE Foundations	08-Sep-08 A	100	18-Mar-11	100%	852									
A17100	Detail Design TFS	26-Sep-08 A	180	07-Jul-09 A	100%	750									
A17120	Detail Design OCS	26-Sep-08 A	100	18-Sep-09 A	100%	750									
A17130	Procurement	26-Oct-08 A	100	30-Oct-09 A	100%	750									
A17140	Manufacturing	01-Apr-09 A	343	01-Apr-11	99%	842									
A17150	Dispatch	22-Sep-09 A	141	17-Jun-11	80%	750									
Track Finishes															
A20000	Tamping Ballast	15-Nov-11	549	10-Sep-14	0%	44									
A20005	Tamping Ballast section 2B + 7A	15-Nov-11	40	24-Jun-12	0%	304									
A20006	Tamping Ballast section 5A	04-May-12	30	20-Jun-12	0%	291									
A20010	Finishing	02-May-13	15	23-May-13	0%	102									
A20020	Plantersetting	06-Aug-13	50	16-Oct-13	0%	85									
A20030	Grinding	17-Oct-13	25	20-Nov-13	0%	62									
SECTION 01 NEWHAVEN ROAD TO HAYMARKET															
1	Opening Sequence B (Haymarket to Newhaven Road)	15-Jul-08 A	1402	04-Mar-14	47.78%	171									
Opening Sequence B (Haymarket to Newhaven Road)															
2	Opening Sequence B (Newhaven Road to Haymarket)	15-Jul-08 A	2074	04-Mar-14	47.78%	171									
D1A Newhaven Road (inc to Foot of the Walk (exc))															
3	E & M Installations	03-Dec-12	0	13-Dec-12	0%	21									
1A-21-TOHLE-30	Access for visual inspection for EAM wayaside installation BER - FOW	03-Dec-12	0	13-Dec-12	0%	407									
1A-21-VELEC-30	Access for visual inspection to cable pits for cable laying BER - FOW	14-Dec-12	0	0%	488										
1A-23-OHLE-30	Access for visual inspection for EAM wayaside installation OGT - POL	20-Dec-12	0	0%	569										
1A-24-OHLE-40	Access for visual inspection for EAM wayaside installation NEW - OCT	20-Dec-12	0	0%	599										
1A-21-TOHLE-31	Access for EAM wayaside installation BER - FOW	15-Jan-13	0	0%	448										
1A-21-VELEC-31	Access to cable pits for cable laying BER - FOW	26-Jan-13	0	0%	444										
1A-24-23-OHLE-50	Installation of poles and building fittings-2 (10 0019 - 10 1315)	01-Feb-13	6	08-Feb-13	0%	524									
1A-23-24-OHLE-50	Installation of poles and building fittings-3 (10 0818 - 10 1044)	01-Feb-13	9	05-Feb-13	0%	538									
1A-24-OHLE-41	Access for EAM wayaside installation NEW - OCT	01-Feb-13	0	0%	524										
1A-24-OHLE-41	Access for EAM wayaside installation NEW - OCT	01-Feb-13	0	0%	524										
1A-24-OHLE-50(3)	Installation of poles and building fittings-1 (10 0110 - 10 0245)	06-Feb-13	2	07-Feb-13	0%	540									
1A-23-24-OHLE-60	Overhead Catenary Line-3 (10 0816 - 10 1044)	06-Feb-13	8	19-Feb-13	0%	538									
1A-24-OHLE-60(3)	Overhead Catenary Line-1 (10 0110 - 10 0245)	11-Feb-13	5	15-Feb-13	0%	540									
1A-24-23-OHLE-60	Overhead Catenary Line-2 (10 0019 - 10 1315)	18-Feb-13	17	12-Mar-13	0%	524									
1A-23-VELEC-30	Access for visual inspection to cable pits for cable laying OGT - POL	26-Feb-13	0	0%	528										
1A-24-VELEC-40	Access for visual inspection to cable pits for cable laying NEW - OCT	26-Feb-13	0	0%	528										
1A-24-SIGH-40	Installation of S/G interlocking cable OGT	02-Apr-13	15	22-Apr-13	0%	471									
1A-24-VELEC-70	Install Electrical Cables NEW - LSE	02-Apr-13	6	06-Apr-13	0%	375									
1A-24-TELEC-70	Install Fibre Optic Cables NEW - OCT	02-Apr-13	4	05-Apr-13	0%	494									
1A-24-SIGH-70	Install Signaling Wayside Equipment NEW - OCT	02-Apr-13	8	11-Apr-13	0%	473									

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Actual Work Remaining Work

Approved

ETN Updated Programme - Progress to 18 Mar 11

11-Mar-11

JAC

Revision

Checked

Approved

% Complete

Summary

Activity Name	Start	Original Duration	Actual Duration	Activity % Complete	Activity % Complete	Year	2009	2010	2011	2012	2013	2014	2015	2016	2017
1A-25-SIGNW-60	02-Apr-13	8	11-Apr-13	0%	48%										
1A-23-ELEC-31	02-Apr-13	0		0%	47%										
1A-24-ELEC-41	02-Apr-13	0		0%	37%										
1A-23-TEL-60	08-Apr-13	8	11-Apr-13	0%	48%										
1A-24-SIGN-40	15-Apr-13	10	28-Apr-13	0%	49%										
1A-23-SIGN-50	16-Apr-13	20	14-May-13	0%	47%										
1A-24-SIGN-50	23-Apr-13	20	21-May-13	0%	46%										
1A-23-SIGN-80	15-May-13	5	21-May-13	0%	47%										
1A-24-SIGN-80	15-May-13	5	28-May-13	0%	49%										
1A-22-OHLE-60	21-May-13	0		0%	36%										
1A-22-ELEC-30	01-Nov-13	0		0%	35%										
1A-22-23-OHLE-50	26-Nov-13	5	28-Nov-13	0%	27%										
1A-20-22-OHLE-50	26-Nov-13	8	29-Nov-13	0%	20%										
1A-22-23-TEL-31	26-Nov-13	0		0%	31%										
1A-22-23-OHLE-60	27-Nov-13	10	19-Dec-13	0%	27%										
1A-20-22-OHLE-60	02-Dec-13	19	07-Jan-14	0%	20%										
1A-20-23-ELEC-60	03-Dec-13	22	18-Jan-14	0%	18%										
1A-22-23-TEL-50	03-Dec-13	6	10-Dec-13	0%	22%										
1A-22-SIGNW-60	03-Dec-13	4	08-Dec-13	0%	24%										
1A-22-ELEC-41	03-Dec-13	0		0%	31%										
1A-21-SIGNW-60	06-Dec-13	5	13-Dec-13	0%	24%										
1A-21-22-TEL-50	11-Dec-13	5	17-Dec-13	0%	22%										
Newhaven Road (inc. to Ocean Terminal) (A x C)	30-Sep-08 A	179	13-Aug-13	50.52%	274										
4	30-Sep-08 A	179	13-Aug-13	50.52%	274										
Newhaven Road (inc. to Ocean Terminal) (elec)	11-Dec-09 A	315	10-Jul-11	77%	774										
SECTION WIDE (OFF-TM)	16-Mar-11	0	18-Mar-11	0%	779										
1A-24-CHGE-10	16-Mar-11	0	18-Mar-11	0%	779										
1A-24-CHGE-20	16-Mar-11	0	18-Mar-11	0%	773										
1A-24-CHGE-30	16-Mar-11	0	18-Mar-11	0%	778										
1A-24-CHGE-40	16-Mar-11	0	18-Mar-11	0%	279										
1A-24-CHGE-50	16-Mar-11	0	18-Mar-11	0%	463										
1A-24-CHGE-60	16-Mar-11	0	18-Mar-11	0%	534										
1A-24-CHGE-70	16-Mar-11	0	18-Mar-11	0%	853										
1A-24-CHGE-80	16-Mar-11	0	18-Mar-11	0%	281										
1A-24-CHGE-90	16-Mar-11	0	18-Mar-11	0%	788										
Lindsay Road Retaining Wall W1A - Phase 1	17-Dec-09 A	315	10-Jul-11	77%	774										
Preliminary Works & excavation	06-Mar-10 A	11	13-Apr-11	100%	773										
1A-24-W1A-100	06-Mar-10 A	5	13-Mar-10 A	100%	773										
1A-24-W1A-110	06-Mar-10 A	8	19-Apr-11	50%	778										
RW Finishing Works and Backfilling	02-Apr-10 A	192	14-Jul-11	77%	779										
1A-24-W1A-150	02-Apr-10 A	2	26-May-11	40%	776										
1A-24-W1A-160	30-May-11	3	01-Jun-11	0%	778										
1A-24-W1A-170	01-Jun-11	2	03-Jun-11	0%	779										
1A-24-W1A-180	07-Jun-11	3	10-Jun-11	0%	778										
1A-24-W1A-190	15-Jun-11	11	30-Jun-11	0%	779										
1A-24-W1A-200	30-Jun-11	2	04-Jul-11	0%	776										

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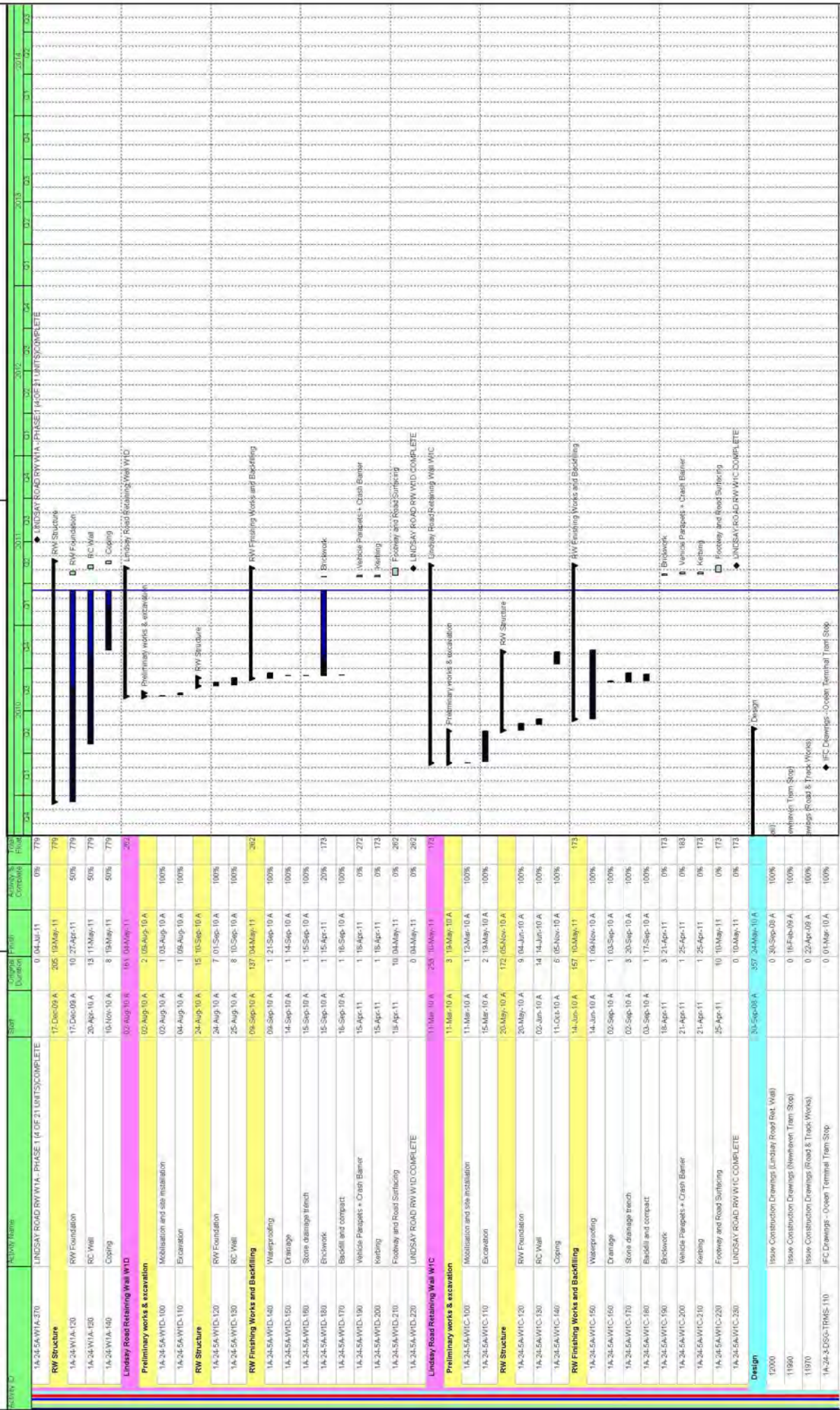
Legend:
█ Actual Work
█ Critical Remaining Work
█ Remaining Work
█ Milestone
◆ % Complete
◆ Summary

Date: 11-Mar-11
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 Approved:

Update Programme

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and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year
1A-24-4-DS55-TRMS-102	FC Drawings - Final TS Drawings and stop equipment - Ocean Tram Stop	01-Mar-10	10	10	100%	2010
1A-24-4-DS55-TRMS-110	FC Drawings - Final TS Drawings and stop equipment - Newhaven Tram Stop	01-Mar-10	10	10	100%	2010
1A-24-4-DS55-SUB-100	FC Drawings - Generic Substation Design (Leith Sands Substation)	01-May-10	10	10	100%	2010
1A-24-4-DS55-ROAD-110	Baseline Construction Drawings Roadworks (Newhaven - Ocean Terrace)	01-May-10	10	10	100%	2010
MUDFA & UTILITIES						
1A-24-4-MUDFA-01	MUDFA & Utilities work completion (Ch. 0 - 200) - DC	08-Mar-10	18	18	76%	2010
1A-24-4-MUDFA-02	MUDFA & Utilities work completion (Ch. 400 - 800) - DC	08-Mar-10	18	18	100%	2010
1A-24-4-MUDFA-03	MUDFA & Utilities work completion (Ch. 800 - 1100) - DC	05-Jul-10	10	10	100%	2010
1A-24-4-MUDFA-04	MUDFA & Utilities work completion (Ch. 1600 - 2000) - DC	05-Jul-10	10	10	100%	2010
1A-24-4-MUDFA-05	MUDFA & Utilities work completion (Ch. 200 - 400) - AC	26-Jul-10	10	10	100%	2010
1A-24-4-MUDFA-06	MUDFA & Utilities work completion (Ch. 400 - 800) - AC	26-Jul-10	10	10	100%	2010
1A-24-4-MUDFA-07	MUDFA & Utilities work completion (Ch. 800 - 1100) - AC	27-Aug-10	10	10	100%	2010
1A-24-4-MUDFA-08	MUDFA & Utilities work completion (Leithway Road) - DC	18-Mar-11	11	11	0%	2011
1A-24-4-MUDFA-09	MUDFA & Utilities work completion (Ch. 800 - 1100) - In letter ES&I (05.10.10)	18-Mar-11	11	11	0%	2011
NEWHAVEN TRAM STOP						
1A-24-4-TS-1010	Ducting and Chambers	17-Feb-12	157	20	13%	2012
1A-24-4-TS-1020	Tramstop Platform	17-Feb-12	20	15	75%	2012
1A-24-4-TS-1030	Order REC Supply	18-Mar-12	53	0	0%	2012
1A-24-4-TS-1040	Access for visual inspection for EM&I Tram Stop installation (01A Newhaven Road)	20-Apr-12	0	0	0%	2012
1A-24-4-TS-1050	NEWHAVEN TRAM STOP - CIVIL WORKS COMPLETE	17-May-12	0	0	0%	2012
1A-24-4-TS-1060	Deliver and install Tramstop Shelter (Iba)	05-Jun-12	0	0	0%	2012
1A-24-4-TS-1070	Deliver and install shelter	05-Jun-12	10	10	100%	2012
1A-24-4-TS-1080	Access for EM&I Tram Stop installation (01A Newhaven Road)	18-Jun-12	0	0	0%	2012
1A-24-4-TS-1090	Deliver and install outside	20-Jun-12	10	10	100%	2012
1A-24-4-TS-1100	Install LV Power Supply and LV Power Equipment	08-Jul-12	25	09	36%	2012
1A-24-4-TS-1110	Install Telecom Equipment	08-Aug-12	20	08	40%	2012
1A-24-4-TS-1120	Install Station Control Equipment + AFC Equipment	06-Aug-12	25	13	52%	2012
1A-24-4-TS-1130	Site Acceptance Test Tramstop	13-Sep-12	5	3	60%	2012
TTM PHASE 8 (CH - 0-160)						
1A-24-4-TTM-08-1000	TTM PHASE 8 - Road closure (Ch. 0-160)	17-Feb-12	0	0	0%	2012
1A-24-4-TTM-08-1010	TTM PHASE 8 COMPLETE	17-Feb-12	0	0	0%	2012
TEMPORARY AND PRELIMINARY WORKS						
1A-24-4-8-1000	Establish temporary traffic management	17-Feb-12	1	17	100%	2012
1A-24-4-8-1010	Site clearance	20-Feb-12	2	21	105%	2012
1A-24-4-8-1020	Investigate services / outlet positions / inlet-outlet positions / levels	22-Feb-12	1	22	100%	2012
TRACK IMPROVEMENT						
1A-24-4-8-1030	COMMENCE TRACK WORKS (Ch. 830-1080)	23-Feb-12	64	14	22%	2012
1A-24-4-8-1040	Plane out existing surfacing over Trams Footprint (1st cut)	23-Feb-12	0	0	0%	2012
1A-24-4-8-1050	Carry out inspection and testing of Subgrade	27-Feb-12	1	27	100%	2012
1A-24-4-8-1060	Reveal cut / Excavate to formation of Tram Footprint (2nd cut)	28-Feb-12	5	05	100%	2012
1A-24-4-8-1070	Place Sub-base Type 1	28-Feb-12	5	05	100%	2012
1A-24-4-8-1080	Drainage and Outlets	02-Mar-12	5	08	160%	2012
1A-24-4-8-1090	Manholes and Catchpits (2 nos)	02-Mar-12	5	08	160%	2012
1A-24-4-8-1100	Tram Ducts & Chambers	06-Mar-12	8	13	163%	2012
1A-24-4-8-1110	Excavate and Cast OLE Foundations (6 nos)	06-Mar-12	15	26	173%	2012
1A-24-4-8-1120	Prepare and check stability of Formwork	06-Mar-12	15	26	173%	2012

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Legend:
█ Actual Work
█ Critical Remaining Work
█ Remaining Work
◆ Milestone
◆ % Complete
◆ Summary

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EDINBURGH TRAM NETWORK



Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Yield	Plan
1A-24A-S-1160	Track Improvement Layer	13-Mar-12	21 11-Apr-12		0%	547	
1A-24A-S-1150	Installation of IMU Drains and Cable Ducting	13-Mar-12	15 02-Apr-12		0%	558	
1A-24A-S-1120	Lay SL Duct to OLE	19-Mar-12	6 26-Mar-12		0%	558	
TRACK INSTALLATION							
1A-24A-S-1160	TRACK WORKS COMPLETE (CH & 180)	08-Apr-12	9 18-Apr-12		100%	572	
REBOUND/OUTBOUND							
1A-24A-S-1170	Access Available for Track Laying	08-Apr-12	9 15-Aug-12		0%	572	
1A-24A-TRC-70-1180	Set Up track (sleeper/raai) - 2 x 160m	09-Apr-12	0		0%	547	
1A-24A-S-1190	Welding and grinding	19-Jun-12	10 01-Aug-12		0%	547	
1A-24A-S-1200	Drainage / Rail Connections	25-Jul-12	10 03-Aug-12		0%	547	
1A-24A-S-1210	Final Rail Alignment - Check and Approve	25-Jul-12	10 03-Aug-12		0%	547	
1A-24A-S-1220	Installation of IMU Boxes and Lcops(8) and boxes(1)	24-Jul-12	9 26-Jul-12		0%	548	
1A-24A-S-1230	185mm Concrete Supporting Layer	25-Jul-12	12 10-Aug-12		0%	547	
1A-24A-SIG-70	point machine mechanical set up	02-Aug-12	10 16-Aug-12		0%	572	
TRACKWORK PAVEMENT (BETWEEN AND OUT WITH RAILS)							
1A-24A-S-1240	110mm Roadbase	13-Aug-12	1 13-Aug-12		0%	595	
1A-24A-S-1250	55mm Basecourse	14-Aug-12	1 14-Aug-12		0%	566	
1A-24A-S-1260	35mm Wearing Course	15-Aug-12	1 15-Aug-12		0%	566	
1A-24A-S-1270	175mm Concrete	17-Feb-12	0		0%	595	
CARRIAGEWAY / FOOTWAY PAVEMENT CONSTRUCTION							
1A-24A-S-1280	ROAD WORKS COMPLETE (CH & 180)	17-Feb-12	0		0%	547	
OUTBOUND							
1A-24A-S-1290	Plane Main Carriageway & Footway	17-Feb-12	13 21-Aug-12		0%	566	
1A-24A-S-1300	Plane in-situ concrete to Formation	20-Feb-12	2 21-Feb-12		0%	595	
1A-24A-S-1310	Capping layer (600mm)	21-Feb-12	2 23-Feb-12		0%	595	
1A-24A-S-1320	Drainage and Outlets	22-Feb-12	2 23-Feb-12		0%	597	
1A-24A-S-1330	Ducts and Chambers	22-Feb-12	2 23-Feb-12		0%	597	
1A-24A-S-1340	Keelings	13-Aug-12	4 16-Aug-12		0%	547	
1A-24A-S-1350	Footpath Works	15-Aug-12	9 27-Aug-12		0%	566	
SURFACING							
1A-24A-S-1360	220mm Sub-base	17-Aug-12	4 22-Aug-12		0%	547	
1A-24A-S-1370	255mm Base	20-Aug-12	1 30-Aug-12		0%	547	
1A-24A-S-1380	60mm Binder Course	21-Aug-12	1 21-Aug-12		0%	547	
1A-24A-S-1390	35mm Surface Course - Main Carriageway and Boundary	22-Aug-12	1 22-Aug-12		0%	547	
REBOUND							
1A-24A-S-1400	Plane Main Carriageway & Footway	23-Aug-12	13 10-Sep-12		0%	556	
1A-24A-S-1410	Plane in-situ concrete to Formation	24-Aug-12	1 24-Aug-12		0%	547	
1A-24A-S-1420	Keelings	27-Aug-12	4 30-Aug-12		0%	547	
1A-24A-S-1430	Capping layer (600mm)	27-Aug-12	1 27-Aug-12		0%	547	
1A-24A-S-1440	Drainage and Outlets	28-Aug-12	2 28-Aug-12		0%	548	
1A-24A-S-1450	Ducts and Chambers	28-Aug-12	2 28-Aug-12		0%	548	
1A-24A-S-1460	Footpath Works	29-Aug-12	9 10-Sep-12		0%	550	
SURFACING							
1A-24A-S-1470	220mm Sub-base	31-Aug-12	4 03-Sep-12		0%	547	
1A-24A-S-1480	255mm Base	03-Sep-12	1 03-Sep-12		0%	547	

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11-Mar-11

ETN Updated Programme - Progress to 18 Mar 11

JAC

Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

Activity ID	Activity Name	Start	Complete Duration	Activity % Complete	Yield Risk
1A-24A-S-1500	60mm Binder Course	04-Sep-12	1 04-Sep-12	0%	547
1A-24A-S-1500	35mm Surface Course - Main Carrageway and Boundary	05-Sep-12	1 05-Sep-12	0%	547
ROAD FINISHING					
1A-24A-S-1510	Parapets, Guard rails, Landscaping	27-Aug-12	14 13-Sep-12	0%	547
1A-24A-S-1520	Traffic lights	27-Aug-12	2 28-Aug-12	0%	558
1A-24A-S-1530	Grind Rail Joint and Sealing Compound	06-Sep-12	9 10-Sep-12	0%	547
1A-24A-S-1540	Road Signs and Markings	11-Sep-12	1 11-Sep-12	0%	547
1A-24A-S-1550	Road Signs and Markings	12-Sep-12	1 12-Sep-12	0%	547
1A-24A-S-1560	Remove temporary traffic management	13-Sep-12	1 13-Sep-12	0%	547
COMMISSIONING AND TESTING					
1A-24A-S-TEST-100	Handover / Acceptance of Roadworks and Trackworks	14-Sep-12	5 20-Sep-12	0%	547
1A-24A-S-TEST-110	Start remaining ESM works along track	21-Sep-12	0	0%	547
TTM PHASE 6B (LINDSAY ROAD WEST BOUND)					
1A-24-TTM-05B-1000	TTM - PHASE 6B - Lindsay Road EB closed	18-Mar-11	124 14-Sep-11	729	
1A-24-TTM-05B-1010	TTM PHASE 6B COMPLETE	15-Apr-11	0	0%	73
be Charge Order					
1A-24-TTM-05B-01	Assigned receipt of a Charge Order for BCO to IFC	16-Mar-11	0 19-Mar-11	72	
TEMPORARY AND PRELIMINARY WORKS					
1A-24-SB-1000	Establish temporary traffic management	15-Apr-11	7 20-Apr-11	72	
1A-24-SB-1010	Site clearance	15-Apr-11	1 15-Apr-11	0%	73
1A-24-SB-1020	Investigate services / outfall positions / inlet/outlet positions / levels	18-Apr-11	5 25-Apr-11	0%	73
1A-24-SB-1030	Investigate services / outfall positions / inlet/outlet positions / levels	26-Apr-11	1 26-Apr-11	0%	73
LINDSAY ROAD (WESTBOUND)					
1A-24-SB-1030	COMMENCE ROAD WORKS (LINDSAY ROAD WESTBOUND)	23-Apr-11	32 26-Sep-11	72	
1A-24-SB-1040	ROAD WORKS COMPLETE (LINDSAY ROAD WESTBOUND)	27-Apr-11	0	0%	73
WESTBOUND					
1A-24-SB-1050	Remove existing roadway	27-Apr-11	83 31-Aug-11	73	
1A-24-SB-1060	Re-lane Main Carrageway & Footway	27-Apr-11	5 04-May-11	0%	73
1A-24-SB-1070	Plan sub-base / excavate to Formulation (Lindsay Road)	05-May-11	5 11-May-11	0%	73
1A-24-SB-1080	Capping layer (600mm)	12-May-11	49 30-Jul-11	0%	73
1A-24-SB-1090	Ducts and Chambers	13-May-11	49 21-Jul-11	0%	76
1A-24-SB-1100	Kerbing	15-May-11	49 22-Jul-11	0%	73
1A-24-SB-1110	Footpath Works	20-Jul-11	10 03-Aug-11	0%	76
1A-24-SB-1120	Footpath Works	25-Jul-11	27 31-Aug-11	0%	73
SURFACING					
1A-24-SB-1130	20mm Sub-base	04-Aug-11	4 09-Aug-11	91	
1A-24-SB-1140	25mm Base	04-Aug-11	1 04-Aug-11	0%	91
1A-24-SB-1150	60mm Binder Course	05-Aug-11	1 05-Aug-11	0%	91
1A-24-SB-1160	35mm Surface Course - Main Carrageway and Boundary	06-Aug-11	1 06-Aug-11	0%	91
ROAD FINISHING					
1A-24-SB-1170	Road Signs and Markings	10-Aug-11	20 06-Sep-11	73	
1A-24-SB-1180	Landscaping	10-Aug-11	1 10-Aug-11	0%	91
1A-24-SB-1190	Remove temporary traffic management	06-Sep-11	1 06-Sep-11	0%	73
COMMISSIONING AND TESTING					
1A-24-SB-TEST-100	Handover / Acceptance of Roadworks and Trackworks	07-Sep-11	5 14-Sep-11	0%	73
1A-24-SB-TEST-110	Start remaining ESM works along track	14-Sep-11	0	0%	729

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Actual Work Remaining Work % Complete

ETN Updated Programme - Progress to 18 Mar 11

11-Mar-11 JAC

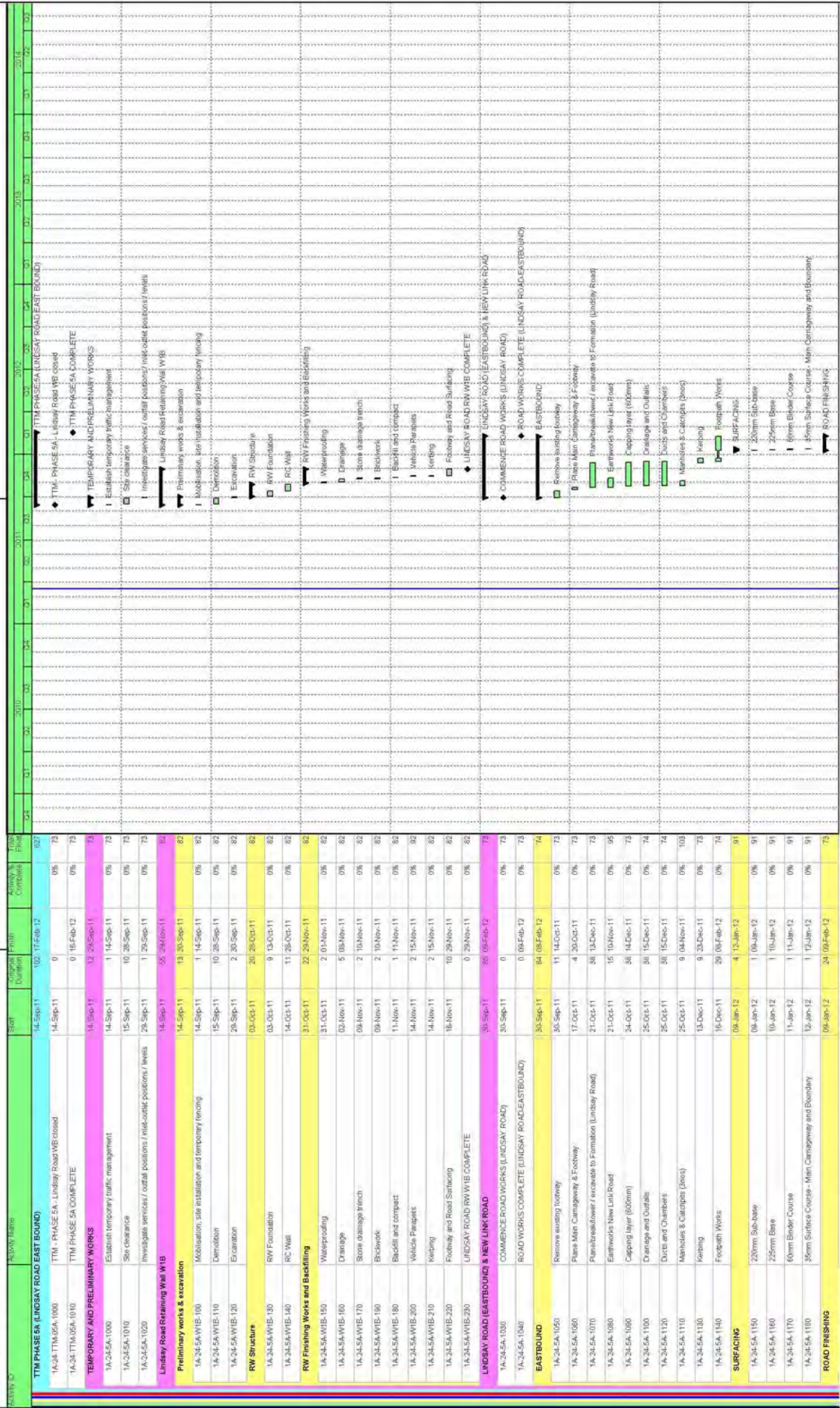
Approved

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Revision

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Summary



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Legend:

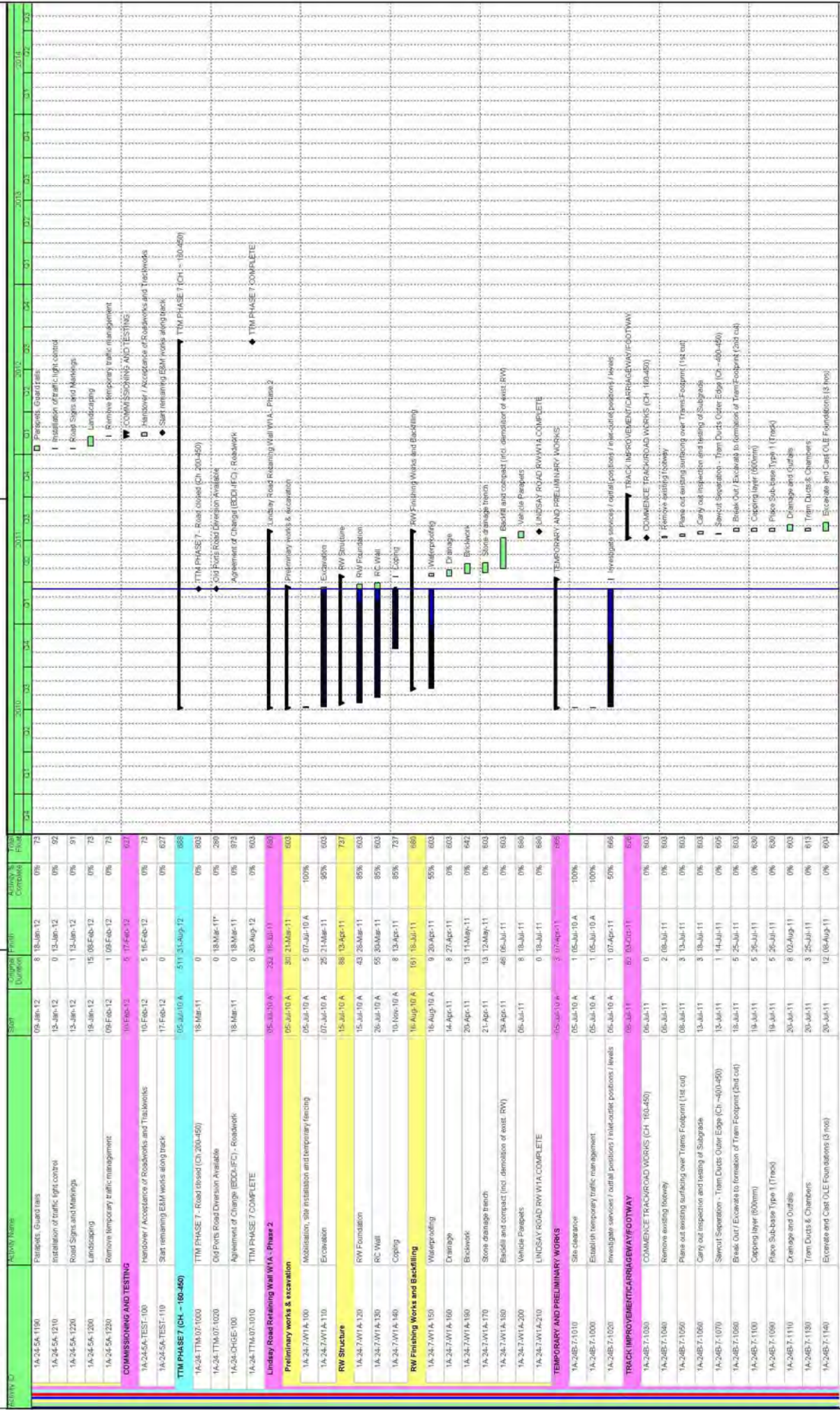
- Actual Work (Blue bar)
- Remaining Work (Green bar)
- Critical Remaining Work (Red bar)
- Milestone (Diamond)
- % Complete (Arrow)
- Summary (Arrow)

Checked: JAC

Approved: JAC

Revision: EITN Updated Programme - Progress to 18 Mar 11

Date: 11-Mar-11



Date	Revision	Checked	Approved
11-Mar-11	ETN Updated Programme - Progress to 18 Mar 11	JAC	

Activity ID	Activity Name	Start	Complete Duration	Activity % Complete	Year
1A-245-7-1120	Memoires & Calculations (TMS)	20-Jun-11	11/05-Aug-11	0%	2011
1A-245-7-1180	Prepare and check suitability of Formation	03-Aug-11	5/08-Aug-11	0%	2011
1A-245-7-1150	Lay SL Duct to OLE	03-Aug-11	3/08-Aug-11	0%	2011
1A-245-7-1170	Track Implementation Layer	04-Aug-11	32/18-Sep-11	0%	2011
1A-245-7-1180	Installation of IMU Drains and Cable Ducting	04-Aug-11	5/11-Aug-11	0%	2011
1A-245-7-1190	Relaying	18-Sep-11	8/28-Sep-11	0%	2011
1A-245-7-1200	Footpath Works	21-Sep-11	8/03-Oct-11	0%	2011
TRACK INSTALLATION					
3-85	TRACKROAD WORKS COMPLETE CH 160460	02-Sep-11	3-11/23-Aug-12	0%	2012
REBOUND/OUTBOUND					
1A-245-7-1240	Access Available for Track Laying	02-Sep-11	0/03-Aug-12	0%	2012
1A-245-7-1250	Set Up track (steep/slope) - 2 x 250m (incl. crossover Neimhan)	22-Jun-12	30/03-Aug-12	0%	2012
1A-245-7-1260	Welding and grinding	10-Jul-12	17/01-Aug-12	0%	2012
1A-245-7-1270	Drainage / Rail Connections	10-Jul-12	17/01-Aug-12	0%	2012
1A-245-7-1280	Final Rail Alignment - Check and Approve	10-Jul-12	17/01-Aug-12	0%	2012
1A-245-7-1290	Installation of IMU Boxes and Loops	10-Jul-12	3/12-Jul-12	0%	2012
1A-245-7-1300	150mm Concrete Supporting Layer	12-Jul-12	17/03-Aug-12	0%	2012
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)					
1A-245-7-1310	110mm Roadbase	07-Aug-12	1/07-Aug-12	0%	2012
1A-245-7-1320	50mm Basecourse	08-Aug-12	1/08-Aug-12	0%	2012
1A-245-7-1330	35mm Wearing Course	08-Aug-12	1/08-Aug-12	0%	2012
SURFACING					
1A-245-7-1340	220mm Sub-base	10-Aug-12	1/10-Aug-12	0%	2012
1A-245-7-1350	225mm Base	13-Aug-12	1/13-Aug-12	0%	2012
1A-245-7-1360	60mm Binder Course	14-Aug-12	1/14-Aug-12	0%	2012
1A-245-7-1370	35mm Surface Course - Main Carnegway and Boundary	15-Aug-12	1/15-Aug-12	0%	2012
ROAD FINISHING					
1A-245-7-1380	Parapets, Guard rails	24-Sep-11	22/23-Aug-12	0%	2012
1A-245-7-1390	Traffic lights	24-Sep-11	0/24-Sep-11	0%	2012
1A-245-7-1400	Grid Rail Joint and Sealing Compound	16-Aug-12	2/17-Aug-12	0%	2012
1A-245-7-1420	Landscaping	20-Aug-12	2/21-Aug-12	0%	2012
1A-245-7-1410	Road Signs and Markings	20-Aug-12	9/22-Aug-12	0%	2012
1A-245-7-1430	Remove temporary traffic management	22-Aug-12	1/22-Aug-12	0%	2012
COMMISSIONING AND TESTING					
1A-245-7-1050	Handover / Acceptance of Roadworks and Trackworks	24-Aug-12	3/30-Aug-12	0%	2012
1A-245-7-1051-110	Start remaining EAM works along track	31-Aug-12	0/11-Aug-11	0%	2011
TTM PHASE 6 (CH - 450-600)					
1A-TTM-06-1000	TTM PHASE 6 (COMPLETE)	15-Apr-11	0/11-Aug-11	0%	2011
ttc Change Order					
1A-24-10631	Assumed receipt of the Change Order for BCO1 to IFC	18-Mar-11	0/18-Mar-11	0%	2011
TEMPORARY AND PRELIMINARY WORKS					
1A-24C-6-1000	Establish temporary traffic management	15-Apr-11	3/10-Apr-11	0%	2011
1A-24C-6-1010	Site clearance	18-Apr-11	1/18-Apr-11	0%	2011
1A-24C-6-1020	Investigate services / utility positions / inlets/outlet positions / levels	18-Apr-11	1/18-Apr-11	0%	2011

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Actual Work Remaining Work Critical Remaining Work Milestone % Complete Summary

11-Mar-11 ETN Updated Programme - Progress to 18 Mar 11 JAC

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Task	22	23	24	25	26	27	28	29	30	31	01	02	03	
TRACK IMPROVEMENT																				
1A-24C-6-1030	COMMENCE TRACK WORKS (CH 450.600)	15-Apr-11	0	33	0%	260														
1A-24C-6-1040	Remove existing footway	15-Apr-11	1	18-Apr-11	0%	260														
1A-24C-6-1050	Place out existing surfacing over Trams Footprint (1st cut)	20-Apr-11	2	21-Apr-11	0%	260														
1A-24C-6-1060	Carry out inspection and testing of Subgrade	25-Apr-11	1	25-Apr-11	0%	260														
1A-24C-6-1070	Sealot Staircase - Trams Ducts Outer Edge	25-Apr-11	2	26-Apr-11	0%	260														
1A-24C-6-1080	Break Out / Excavate to formation of Trams Footprint (2nd cut)	26-Apr-11	5	03-May-11	0%	260														
1A-24C-6-1090	Place Sub-base Type 1	27-Apr-11	5	04-May-11	0%	260														
1A-24C-6-1100	Drainage and Outlets	28-Apr-11	5	05-May-11	0%	260														
1A-24C-6-1110	Tram Ducts & Chambers	29-Apr-11	6	06-May-11	0%	267														
1A-24C-6-1120	Excavate and Cast OLE Foundations (6 nos)	29-Apr-11	13	17-May-11	0%	260														
1A-24C-6-1130	Lay S/L Duct to OLE	10-May-11	6	17-May-11	0%	274														
1A-24C-6-1140	Prepare and check suitability of Formation	11-May-11	5	17-May-11	0%	260														
1A-5-24C-1160	Track Improvement Layer	13-May-11	17	07-Jun-11	0%	260														
1A-24C-6-1150	Installation of IMU Drains and Cable Ducting	13-May-11	5	18-May-11	0%	274														
TRACK INSTALLATION																				
1A-24C-6-1170	TRACK WORKS COMPLETE (CH 450.600)	31-May-11	14	17-Jun-11	0%	293														
REBOUND/OUTBOUND																				
1A-24C-6-1180	Access Available for Track Laying	31-May-11	0	31-May-11	0%	260														
1A-24C-TR06-76-1180	Set Up track (sleepers only) - 2 x 150m	31-May-11	11	15-Jun-11	0%	260														
1A-24C-6-1200	Welding and grouting	02-Jun-11	9	15-Jun-11	0%	260														
1A-24C-6-1210	Drainage / Rail Connections	02-Jun-11	9	15-Jun-11	0%	260														
1A-24C-6-1220	Final Rail Alignment - Check and Approve	02-Jun-11	9	15-Jun-11	0%	260														
1A-24C-SIGN-60-1230	Installation of IMU Boxes and Loops	03-Jun-11	3	08-Jun-11	0%	261														
1A-24C-6-1240	180mm Concrete Supporting Layer	08-Jun-11	9	17-Jun-11	0%	260														
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)																				
1A-24C-6-1250	110mm Roadbase	29-Jun-11	1	24-Jun-11	0%	260														
1A-24C-6-1260	50mm Basecourse	24-Jun-11	1	27-Jun-11	0%	263														
1A-24C-6-1270	35mm Wearing Course	27-Jun-11	1	28-Jun-11	0%	263														
CENTRAL RESERVE AND BOUNDARY																				
1A-24C-6-1280	kerbing to Central Reserve	17-Jun-11	3	22-Jun-11	0%	260														
1A-24C-6-1290	Sub-base to Central Reserve	22-Jun-11	1	23-Jun-11	0%	260														
1A-24C-6-1300	Central Reserve footpaths	23-Jun-11	6	01-Jul-11	0%	263														
CARRIAGEWAY / FOOTWAY PAVEMENT CONSTRUCTION																				
1A-24C-6-1310	COMMENCE ROAD WORKS (CH 450.600)	15-Apr-11	78	04-Aug-11	0%	260														
1A-24C-6-1320	ROAD WORKS COMPLETE (CH 450.600)	15-Apr-11	0	04-Aug-11	0%	260														
OUTBOUND																				
1A-24C-6-1330	Place Main Carriageway & Footway	15-Apr-11	55	05-Jul-11	0%	260														
1A-24C-6-1340	Place/Re-lay/Excavate to Formation	15-Apr-11	1	15-Apr-11	0%	258														
1A-24C-6-1350	Capping layer (600mm)	16-Apr-11	3	18-Apr-11	0%	259														
1A-24C-6-1360	Drainage and Outlets	16-Apr-11	3	21-Apr-11	0%	258														
1A-24C-6-1370	Manholes & Catchpits (6 nos)	20-Apr-11	11	08-May-11	0%	303														
1A-24C-6-1380	Ducts and Chambers	20-Apr-11	6	08-May-11	0%	303														
1A-24C-6-1390	kerbing	08-Jun-11	6	15-Jun-11	0%	265														
1A-24C-6-1400	Footpath Works	10-Jun-11	19	05-Jul-11	0%	260														

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█ Actual Work
 █ Critical Remaining Work
 █ Remaining Work
 █ Milestone
 █ % Complete
 █ Summary

Date: 11-Mar-11
 Revision: ETN Updated Programme - Progress to 18 Mar 11
 Checked: JAC
 Approved:

Activity Name	Start	Complete Duration	Final	Activity % Complete	Year Plan
SURFACING	25-Jun-11	4	25-Jun-11	200	
1A-24C-6-1410	25-Jun-11	1	24-Jun-11	0%	200
225mm Sub-base	24-Jun-11	1	27-Jun-11	0%	200
225mm Base	27-Jun-11	1	28-Jun-11	0%	200
60mm Binder Course	28-Jun-11	1	29-Jun-11	0%	200
35mm Surface Course - Main Camberway and Boundary	29-Jun-11	1	21-Jul-11	0%	201
REBOUND	29-Jun-11	2	01-Jul-11	0%	200
Plane Main Camberway & Footway	01-Jul-11	6	11-Jul-11	0%	200
Plane/Reinforce to Formation	04-Jul-11	6	12-Jul-11	0%	200
Capping layer (603mm)	05-Jul-11	6	13-Jul-11	0%	200
Drainage and Outlets	05-Jul-11	6	13-Jul-11	0%	200
Ducts and Chambers	11-Jul-11	4	15-Jul-11	0%	200
Kerbing	13-Jul-11	4	15-Jul-11	0%	200
Footpath Works	13-Jul-11	4	21-Jul-11	0%	200
SURFACING	15-Jul-11	1	15-Jul-11	0%	200
225mm Sub-base	15-Jul-11	1	15-Jul-11	0%	200
225mm Base	15-Jul-11	1	20-Jul-11	0%	200
60mm Binder Course	20-Jul-11	1	21-Jul-11	0%	200
35mm Surface Course - Main Camberway and Boundary	11-Jul-11	17	04-Aug-11	0%	200
ROAD FINISHING	11-Jul-11	0	11-Jul-11	0%	272
Parapets, Guard rails	14-Jul-11	4	20-Jul-11	0%	200
Landscaping	21-Jul-11	8	28-Jul-11	0%	200
Installation of traffic light control - Junction 08(1)	29-Jul-11	1	03-Aug-11	0%	200
Grind Rail Joint and Sealing Compound	02-Aug-11	1	03-Aug-11	0%	200
Road Signs and Markings	03-Aug-11	1	04-Aug-11	0%	200
Remove temporary traffic management	04-Aug-11	5	11-Aug-11	0%	250
COMMISSIONING AND TESTING	04-Aug-11	9	11-Aug-11	0%	200
Handover / Acceptance of Roadworks and Trackworks	11-Aug-11	0	11-Aug-11	0%	250
LEITH SANDS SUB STATION(3)	15-Apr-11	272	22-May-12	50%	
1A-SUBS-30	15-Apr-11	65	15-Jul-11	0%	534
1A-SUBS-30	20-Jun-11	0	20-Jun-11	0%	785
1A-SUBS-100	20-Jun-11	5	27-Jun-11	0%	785
1A-SUBS-100	0	19-Jul-11	0	788	
1A-SUBS-31	20-Jul-11	0	03-Feb-12	0%	534
1A-SUBS-45	08-Jan-12	20	03-Feb-12	0%	422
1A-SUBS-50	07-Feb-12	15	27-Feb-12	0%	561
1A-SUBS-55	0	17-Feb-12	0	561	
1A-SUBS-60	21-Feb-12	0	19-Mar-12	0%	501
1A-SUBS-70	26-Feb-12	15	19-Mar-12	0%	501
1A-SUBS-80	26-Mar-12	50	01-May-12	0%	561
1A-SUBS-80	02-May-12	14	22-May-12	0%	561
TTM PHASE 9 (CH - 600-685)	13-Sep-12	65	23-Jun-13	0%	554
1A-24E-TTM-09-1000	13-Sep-12	0	22-Jun-13	0%	554
1A-24E-TTM-09-1010	18-Sep-12	7	10-Sep-12	0%	554

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Actual Work Remaining Work % Complete

ETN Updated Programme - Progress to 18 Mar 11

11-Mar-11

Revision

Checked

Approved

JAC

Summary

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Yield Risk
1A-24E-9-1000	Establish temporary traffic management	12-Sep-12	1	14-Sep-12	0%	554
1A-24E-9-1010	Site clearance	14-Sep-12	1	14-Sep-12	0%	554
1A-24E-9-1020	Investigate services / outfall positions / inter-connector positions / levels	17-Sep-12	1	17-Sep-12	0%	555
TRACK IMPROVEMENT						
1A-24E-9-1030	COMMENCE TRACK WORKS (CH 600.685)	17-Sep-12	3	18-Oct-12	55%	554
1A-24E-9-1040	Remove existing footway	17-Sep-12	2	18-Sep-12	0%	554
1A-24E-9-1050	Plans out existing subgrade over Trains Footprint (1st cut)	18-Sep-12	1	18-Sep-12	0%	554
1A-24E-9-1060	Carry out inspection and testing of Subgrade	20-Sep-12	1	20-Sep-12	0%	554
1A-24E-9-1070	Sawcut Separation - Train Ducts Outer Edge	20-Sep-12	1	20-Sep-12	0%	554
1A-24E-9-1080	Break Out / Excavate to formation of Train Footprint (2nd cut)	21-Sep-12	3	25-Sep-12	0%	554
1A-24E-9-1090	Place Sub-base Type 1	21-Sep-12	3	25-Sep-12	0%	554
1A-24E-9-1100	Drainage and Outfalls	26-Sep-12	3	28-Sep-12	0%	555
1A-24E-9-1120	Excavate and Cast OLE Foundations (5 nos)	26-Sep-12	9	08-Oct-12	0%	554
1A-24E-9-1110	Train Ducts & Chambers	26-Sep-12	3	02-Oct-12	0%	556
1A-24E-9-1140	Prepare and check suitability of Formulation	02-Oct-12	5	08-Oct-12	0%	554
1A-24E-9-1130	Lay SL Duct to OLE	04-Oct-12	3	08-Oct-12	0%	563
1A-24E-9-1160	Track Improvement Layer	04-Oct-12	12	18-Oct-12	0%	554
1A-24E-9-1150	Installation of IMU Drains and Cable Ducting	04-Oct-12	5	10-Oct-12	0%	569
TRACK INSTALLATION						
1A-24E-9-1170	TRACK WORKS COMPLETE (CH 600.685)	22-Oct-12	14	08-Nov-12	0%	563
INBOUND/OUTBOUND						
1A-24E-9-1180	Access Available for Track Laying	22-Oct-12	0		0%	554
1A-24E-9-1190	Set Up track (sleepers) - 2 x 85m	22-Oct-12	7	30-Oct-12	0%	554
1A-24E-9-1200	Welding and grouting	24-Oct-12	5	30-Oct-12	0%	554
1A-24E-9-1210	Drainage / Rail Connections	24-Oct-12	5	30-Oct-12	0%	554
1A-24E-9-1220	Frail Rail Alignment - Check and Approve	24-Oct-12	5	30-Oct-12	0%	554
1A-24E-9-1230	Installation of IMU Boxes and Loops	25-Oct-12	2	26-Oct-12	0%	555
1A-24E-9-1240	150mm Concrete Supporting Layer	26-Oct-12	10	08-Nov-12	0%	554
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)						
1A-24E-9-1250	110mm Roadbase	14-Nov-12	1	14-Nov-12	0%	554
1A-24E-9-1260	55mm Basecourse	15-Nov-12	1	15-Nov-12	0%	554
1A-24E-9-1270	35mm Wearing Course	15-Nov-12	1	15-Nov-12	0%	554
CENTRAL RESERVE AND BOUNDARY						
1A-24E-9-1280	Kerbing to Central Reserve	08-Nov-12	2	13-Nov-12	0%	554
1A-24E-9-1290	Sub-base to Central Reserve	13-Nov-12	1	13-Nov-12	0%	554
1A-24E-9-1300	Central Reserve finishes	14-Nov-12	4	19-Nov-12	0%	568
CARRIAGEWAY / FOOTWAY PAVEMENT CONSTRUCTION						
1A-24E-9-1310	COMMENCE ROAD WORKS (CH 600.685)	16-Nov-12	33	15-Jan-13	5%	554
1A-24E-9-1320	ROAD WORKS COMPLETE (CH 600.685)	16-Nov-12	0		0%	554
OUTBOUND						
1A-24E-9-1330	Place Main Carriageway & Footway	16-Nov-12	12	04-Dec-12	0%	575
1A-24E-9-1340	Place Reinforced concrete to Formation	20-Nov-12	3	22-Nov-12	0%	554
1A-24E-9-1350	Capping layer (600mm)	21-Nov-12	3	23-Nov-12	0%	554
1A-24E-9-1360	Drainage and Outfalls	22-Nov-12	3	28-Nov-12	0%	575
1A-24E-9-1370	Ducts and Chambers	22-Nov-12	3	28-Nov-12	0%	575

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Actual Work Remaining Work Critical Remaining Work Milestone % Complete Summary

11-Mar-11 ETN Updated Programme - Progress to 18 Mar 11 JAC

Date Revision

Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011.

EDINBURGH TRAM NETWORK



Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year Plan
1A-24E-9-1380	Roading	25-Nov-12	3	27-Nov-12	0%	554
1A-24E-9-1390	Footpath Works	27-Nov-12	6	04-Dec-12	0%	575
SURFACING						
1A-24E-9-1400	20mm Sub-base	25-Nov-12	4	03-Dec-12	0%	554
1A-24E-9-1410	225mm Base	28-Nov-12	1	28-Nov-12	0%	554
1A-24E-9-1420	60mm Binder Course	30-Nov-12	1	30-Nov-12	0%	554
1A-24E-9-1430	35mm Surface Course - Main Carriageway and Boundary	03-Dec-12	1	03-Dec-12	0%	554
REBOUND						
1A-24E-9-1440	Plane Main Carriageway & Footway	04-Dec-12	13	20-Dec-12	0%	561
1A-24E-9-1450	Plane/Gravel/Carriageway to Formation (incl. access road)	04-Dec-12	1	04-Dec-12	0%	554
1A-24E-9-1460	Capping layer (60mm)	05-Dec-12	4	10-Dec-12	0%	554
1A-24E-9-1470	Drainage and Curbs	07-Dec-12	4	13-Dec-12	0%	563
1A-24E-9-1480	Ducts and Chambers	07-Dec-12	4	13-Dec-12	0%	563
1A-24E-9-1490	Roading	11-Dec-12	4	14-Dec-12	0%	554
1A-24E-9-1500	Footpath Works	13-Dec-12	4	18-Dec-12	0%	563
SURFACING						
1A-24E-9-1510	20mm Sub-base	17-Dec-12	4	20-Dec-12	0%	554
1A-24E-9-1520	225mm Base	17-Dec-12	1	17-Dec-12	0%	554
1A-24E-9-1530	60mm Binder Course	18-Dec-12	1	18-Dec-12	0%	554
1A-24E-9-1540	35mm Surface Course - Main Carriageway and Boundary	20-Dec-12	1	20-Dec-12	0%	554
ROAD FINISHING						
1A-24E-9-1550	Parade, Guard rails	11-Dec-12	17	15-Jan-13	554	554
1A-24E-9-1560	Landscaping	11-Dec-12	0	11-Dec-12	0%	560
1A-24E-9-1570	Installation of traffic light control - Junction 6B (2)	18-Dec-12	1	18-Dec-12	0%	563
1A-24E-9-1580	Installation of traffic light control - Junction 6C (2)	21-Dec-12	6	18-Jan-13	0%	554
1A-24E-9-1590	Grind Rail Joint and Sealing Compound	31-Dec-12	5	10-Jan-13	0%	554
1A-24E-9-1600	Road Signs and Markings	11-Jan-13	1	11-Jan-13	0%	554
1A-24E-9-1610	Road Signs and Markings	14-Jan-13	1	14-Jan-13	0%	554
1A-24E-9-1620	Remove temporary traffic management	15-Jan-13	1	15-Jan-13	0%	554
COMMISSIONING AND TESTING						
1A-24E-9-TEST-107	Handover / Acceptance of Roadworks and Trackworks	16-Jan-13	5	23-Jan-13	0%	554
1A-24E-9-TEST-110	Start remaining EAM works along track	23-Jan-13	0		0%	554
TIM PHASE 4A (CH - 694-830)						
1A-24E-TTM04A-1000	TTM PHASE 4A - Road closed (Ch. 695-830)	11-Aug-11	271	13-Sep-12	100%	639
1A-24E-TTM04A-1010	TTM PHASE 4A COMPLETE	11-Aug-11	0		0%	260
TEMPORARY AND PRELIMINARY WORKS						
1A-24E-4A-1000	Establish temporary traffic management	11-Aug-11	4	17-Aug-11	0%	260
1A-24E-4A-1010	Site clearance	12-Aug-11	2	15-Aug-11	0%	260
1A-24E-4A-1020	Investigate services / utility positions / in-vehicle positions / levels	15-Aug-11	1	17-Aug-11	0%	261
TRACK IMPROVEMENT						
1A-24E-4A-1030	COMMENCE TRACK WORKS (Ch. 695-830)	16-Aug-11	0		0%	260
1A-24E-4A-1040	Remove existing central reserve & lighting columns	16-Aug-11	3	18-Aug-11	0%	260
1A-24E-4A-1050	Remove existing footway - Outbound	16-Aug-11	1	17-Aug-11	0%	260
1A-24E-4A-1060	Remove existing footway - Inbound	16-Aug-11	2	18-Aug-11	0%	260
1A-24E-4A-1070	Plane out existing surfacing over Trams Footprint (114 cut)	18-Aug-11	2	22-Aug-11	0%	260
1A-24E-4A-1080	Carry out inspection and testing of Subgrade	22-Aug-11	1	23-Aug-11	0%	260

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Legend:
█ Actual Work
█ Remaining Work
█ Critical Remaining Work
█ Milestone
◆ % Complete
█ Summary

Date: 11-Mar-11
 Revision: EITN Updated Programme - Progress to 18 Mar 11
 Checked: JAC
 Approved:

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
1A-24F-4A-1050	Sawcut Separation - Tram Ducts Outer Edge	23-Aug-11	2	24-Aug-11	0%	2011
1A-24F-4A-1100	Break Out / Excavate to formation of Tram Footprint (2nd cut)	23-Aug-11	5	30-Aug-11	0%	2011
1A-24F-4A-1110	Place Sub-base Type 1	23-Aug-11	5	30-Aug-11	0%	2011
1A-24F-4A-1120	Drainage and Outlets	25-Aug-11	7	08-Sep-11	0%	2011
1A-24F-4A-1130	Tram Ducts & Chambers	30-Aug-11	6	07-Sep-11	0%	2011
1A-24F-4A-1140	Excavate and Cast OLE Foundations (12 nos)	30-Aug-11	15	20-Sep-11	0%	2011
1A-24F-4A-1150	Prepare and check suitability of Formation	06-Sep-11	15	21-Sep-11	0%	2011
1A-24F-4A-1160	Track Improvement Layer	06-Sep-11	21	11-Oct-11	0%	2011
1A-24F-4A-1170	Installation of IMU Drains and Cable Ducting	06-Sep-11	15	25-Sep-11	0%	2011
1A-24F-4A-1180	Lay SL Duct to OLE	13-Sep-11	5	30-Sep-11	0%	2011
1A-24F-4A-1190	TRACK INSTALLATION	30-Sep-11	179	25-Jun-12	31%	2011-2012
1A-24F-4A-1000	TRACK WORKS COMPLETE (CH 685-830)	0	25-Jun-12	0%	31%	2012
1A-24F-4A-1200	INBOUND/OUTBOUND	30-Sep-11	179	25-Jun-12	30%	2011-2012
1A-24F-4A-1160	Access Available for Track Laying	30-Sep-11	0	26-Sep-11	0%	2011
1A-24F-TRC6-70-1200	Set Up track (steepside) - 2 x 145m	24-May-12	11	08-Jun-12	0%	2012
1A-24F-4A-1210	Welding and grouting	26-May-12	9	08-Jun-12	0%	2012
1A-24F-4A-1220	Damage/ Rail Connections	26-May-12	9	08-Jun-12	0%	2012
1A-24F-4A-1230	Final Rail Alignment - Check and Approve	26-May-12	9	08-Jun-12	0%	2012
1A-24F-SIGN-90-1240	Installation of IMU Boxes and Loops	30-May-12	5	05-Jun-12	0%	2012
1A-24F-4A-1250	150mm Concrete Supporting Layer	31-May-12	18	25-Jun-12	0%	2012
1A-24F-4A-1260	TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)	03-Jun-12	2	19-Jul-12	38%	2012
1A-24F-4A-1260	110mm Roadbase	02-Jun-12	1	02-Jul-12	0%	2012
1A-24F-4A-1270	55mm Basecourse	03-Jun-12	1	03-Jul-12	0%	2012
1A-24F-4A-1280	35mm Wearing Course	04-Jun-12	1	04-Jul-12	0%	2012
1A-24F-4A-1300	CENTRAL RESERVE AND BOUNDARY	26-Jun-12	10	08-Jul-12	30%	2012
1A-24F-4A-1290	kerling to Central Reserve	26-Jun-12	3	28-Jun-12	0%	2012
1A-24F-4A-1300	Sub-scale to Central Reserve	26-Jun-12	1	29-Jun-12	0%	2012
1A-24F-4A-1310	Central Reserve Topdressing	03-Jul-12	6	09-Jul-12	0%	2012
1A-24F-4A-1320	CARRIAGEWAY / FOOTWAY PAVEMENT CONSTRUCTION	05-Jul-12	44	05-Sep-12	20%	2012
1A-24F-4A-1330	COMMENCE ROAD WORKS (CH 685-830)	05-Jul-12	0	05-Jul-12	0%	2012
1A-24F-4A-1330	ROAD WORKS COMPLETE (CH 685-830)	05-Jul-12	0	05-Sep-12	0%	2012
1A-24F-4A-1340	OUTBOUND	05-Jul-12	18	30-Jul-12	38%	2012
1A-24F-4A-1350	Place Main Carriageway & Footway	05-Jul-12	1	05-Jul-12	0%	2012
1A-24F-4A-1360	Place basecourse to formation	06-Jul-12	6	13-Jul-12	0%	2012
1A-24F-4A-1370	Capping layer (60mm)	08-Jul-12	6	15-Jul-12	0%	2012
1A-24F-4A-1380	Drainage and Outlets	10-Jul-12	6	17-Jul-12	0%	2012
1A-24F-4A-1390	Ducts and Chambers	10-Jul-12	6	17-Jul-12	0%	2012
1A-24F-4A-1400	kerling	15-Jul-12	3	18-Jul-12	0%	2012
1A-24F-4A-1410	Footpath Works & Islands	18-Jul-12	9	30-Jul-12	0%	2012
1A-24F-4A-1410	200mm Sub-base	18-Jul-12	4	24-Jul-12	26%	2012
1A-24F-4A-1420	225mm Base	19-Jul-12	1	19-Jul-12	0%	2012
1A-24F-4A-1430	60mm Binder Course	20-Jul-12	1	20-Jul-12	0%	2012
1A-24F-4A-1440	35mm Surface Course - Main Carriageway and Boundary	24-Jul-12	1	24-Jul-12	0%	2012
1A-24F-4A-1440	INBOUND	05-Jul-12	29	03-Sep-12	20%	2012

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Actual Work Remaining Work % Complete

Critical Remaining Work Milestone

Approved

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Revision

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ETN Updated Programme - Progress to 18 Mar 11

JAC

Summary

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
1A-24E-AA-1450	Plane Main Camerway & Footway	25-Jul-12	2	25-Jul-12	0%	2011
1A-24E-AA-1460	Planform/locate to Formation (incl. access road)	27-Jul-12	10	10-Aug-12	0%	2011
1A-24E-AA-1470	Capping layer (60mm)	30-Jul-12	10	13-Aug-12	0%	2011
1A-24E-AA-1480	Drainage and Curbs	31-Jul-12	10	14-Aug-12	0%	2011
1A-24E-AA-1490	Ducts and Chambers	31-Jul-12	10	14-Aug-12	0%	2011
1A-24E-AA-1500	Reliefing	12-Aug-12	5	17-Aug-12	0%	2011
1A-24E-AA-1510	Footpath Works & Islands	15-Aug-12	14	03-Sep-12	0%	2011
SURFACING						
1A-24E-AA-1520	225mm Sub-base	20-Aug-12	4	23-Aug-12	20%	2011
1A-24E-AA-1530	225mm Base	20-Aug-12	1	23-Aug-12	0%	2011
1A-24E-AA-1540	50mm Binder Course	21-Aug-12	1	21-Aug-12	0%	2011
1A-24E-AA-1550	35mm Surface Course - Main Camerway and Eboundary	22-Aug-12	1	22-Aug-12	0%	2011
1A-24E-AA-1560	Parade, Guard rails	23-Aug-12	1	23-Aug-12	0%	2011
1A-24E-AA-1570	Landscape	12-Aug-12	9	05-Sep-12	20%	2011
1A-24E-AA-1580	Installation of traffic light control - Junction BC(1)	13-Aug-12	3	15-Aug-12	0%	2011
1A-24E-AA-1590	Grid Rail Joint and Sealing Compound	21-Aug-12	11	04-Sep-12	0%	2011
1A-24E-AA-1600	Road Signs and Markings	24-Aug-12	5	30-Aug-12	0%	2011
1A-24E-AA-1610	Remove temporary traffic management	31-Aug-12	1	31-Aug-12	0%	2011
1A-24E-AA-1620	Remove temporary traffic management	03-Sep-12	1	03-Sep-12	0%	2011
1A-24E-AA-1630	Remove temporary traffic management	05-Sep-12	1	05-Sep-12	0%	2011
COMMISSIONING AND TESTING						
1A-24E-AA-TEST-100	Handover / Acceptance of Roadworks and Trackworks	06-Sep-12	5	12-Sep-12	0%	2011
1A-24E-AA-TEST-110	Start remaining EMV works along track	13-Sep-12	0		0%	2011
TTM PHASE AB (CH - 830-1080)						
1A-24D-TTM-AB-1000	TTM PHASE AB - Road closed (CH 830-1080)	13-Sep-12	13	01-Oct-12	50%	2011
1A-24D-TTM-AB-1010	TTM PHASE AB COMPLETE	13-Sep-12	0		0%	2011
TEMPORARY AND PRELIMINARY WORKS						
1A-24C-AB-1000	Establish temporary traffic management	13-Sep-12	1	13-Sep-12	0%	2011
1A-24C-AB-1010	Site clearance	14-Sep-12	2	17-Sep-12	0%	2011
1A-24C-AB-1020	Investigate services / outfall positions / inlet/outlet positions / levels	16-Sep-12	1	18-Sep-12	0%	2011
TRACK IMPROVEMENT						
1A-24C-AB-1030	COMMENCE TRACK WORKS (CH 830-1080)	16-Sep-12	0		0%	2011
1A-24C-AB-1040	Remove existing central reserve & lighting columns	16-Sep-12	8	27-Sep-12	0%	2011
1A-24C-AB-1050	Remove existing footway - Outbound	16-Sep-12	6	26-Sep-12	0%	2011
1A-24C-AB-1060	Remove existing footway - Inbound	16-Sep-12	2	19-Sep-12	0%	2011
1A-24C-AB-1070	Place exit existing surfacing over Trams Footprint (1st cut)	26-Sep-12	4	03-Oct-12	0%	2011
1A-24C-AB-1080	Carry out inspection and sealing of Subgrade	04-Oct-12	1	04-Oct-12	0%	2011
1A-24C-AB-1090	Sawcut Separation - Trams Ducts Outer Edge	04-Oct-12	3	08-Oct-12	0%	2011
1A-24C-AB-1100	Break out / Excavate to formation of Trams Footprint (2nd cut)	05-Oct-12	10	18-Oct-12	0%	2011
1A-24C-AB-1110	Place Sub-base Type 1	05-Oct-12	10	18-Oct-12	0%	2011
1A-24C-AB-1120	Drainage and Curbs	16-Oct-12	9	23-Oct-12	0%	2011
1A-24C-AB-1130	Manholes and Catchpits (3 nos)	16-Oct-12	9	23-Oct-12	0%	2011
1A-24C-AB-1140	Tram Ducts & Chambers	16-Oct-12	10	25-Oct-12	0%	2011
1A-24C-AB-1150	Excavate and Cast OLE Foundations (20 nos)	18-Oct-12	30	23-Nov-12	0%	2011
1A-24C-AB-1170	Prepare and check suitability of Formation	24-Oct-12	15	13-Nov-12	0%	2011
1A-24C-AB-1180	Track Improvement Layer	26-Oct-12	43	07-Jan-13	0%	2011

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Actual Work

Remaining Work

Critical Remaining Work

Milestone

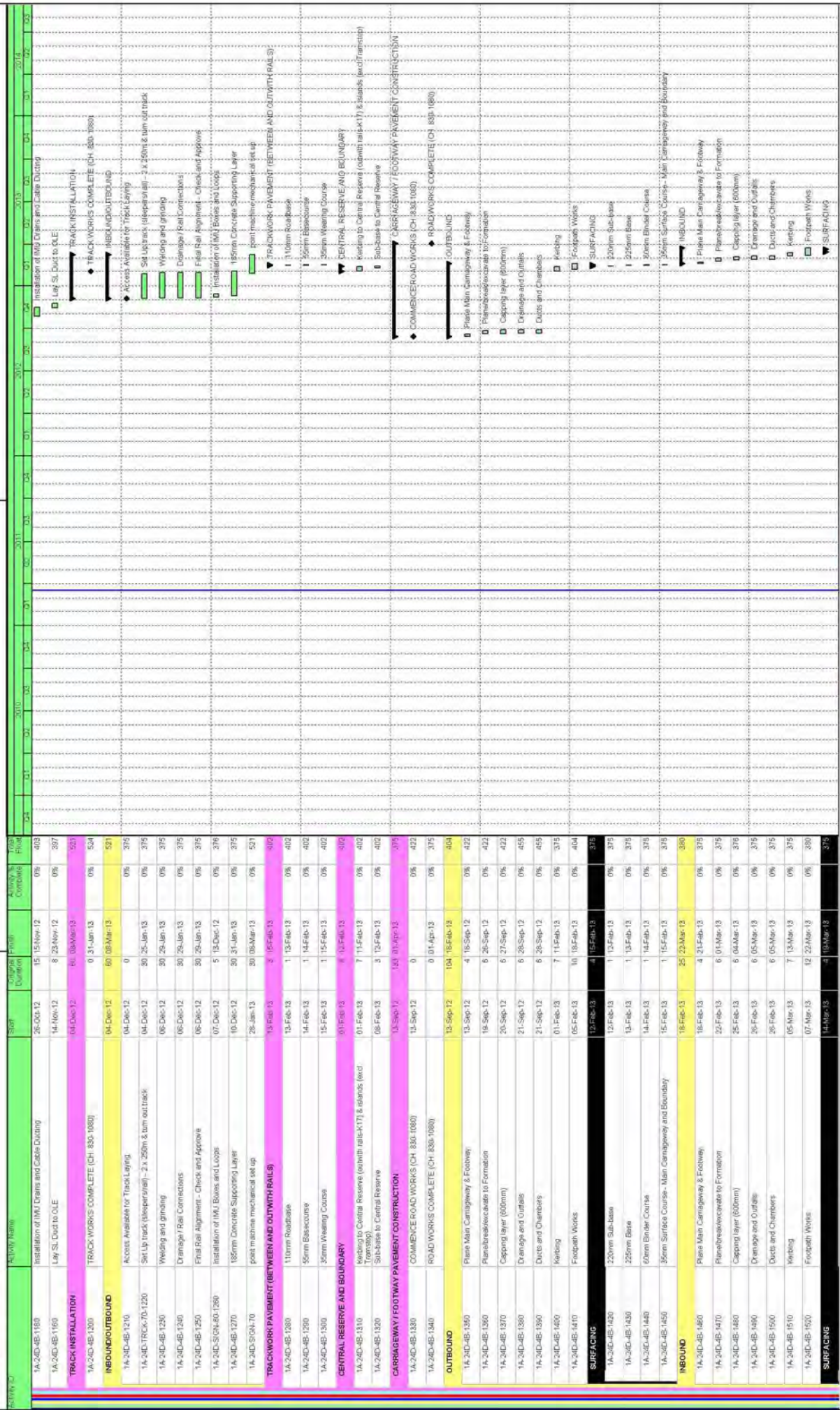
% Complete

Summary

Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



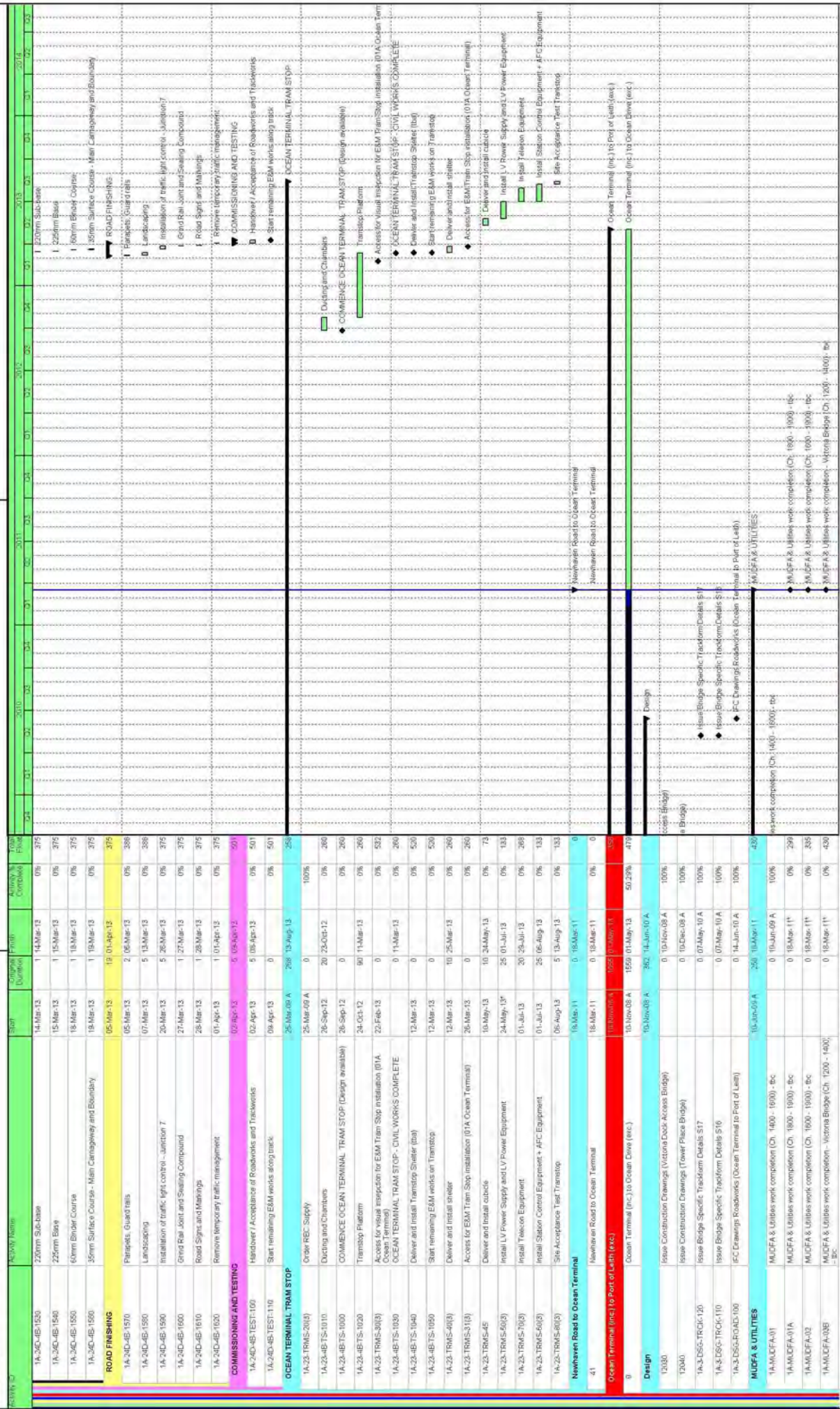
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Actual Work Remaining Work % Complete

Remaining Work Milestone Summary

Date Revision

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Activity No	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
1A-3A-1270	35mm Wearing Course	25-Aug-11	1 25-Aug-11	0	0%	2011
CENTRAL RESERVE AND BOUNDARY						
1A-3A-1280	Kerbing to Central Reserve	22-Aug-11	3 24-Aug-11	0	0%	2011
1A-3A-1290	Sub-base to Central Reserve	25-Aug-11	1 25-Aug-11	0	0%	2011
1A-3A-1300	Central Reserve Finishes	25-Aug-11	2 25-Aug-11	0	0%	2011
CARRIAGEWAY / FOOTWAY PAVEMENT CONSTRUCTION						
1A-3A-1310	COMMENCE ROAD WORKS (CH 1650-1880)	30-May-11	76 06-Sep-11	0	0%	2011
1A-3A-1320	ROAD WORKS COMPLETE (CH 1650-1880)	20-May-11	0	0	0%	2011
REBOUND						
1A-3A-1330	Plane Main Carriageway & Footway	25-May-11	68 25-Aug-11	0	0%	2011
1A-3A-1340	Plane/kerb/corner to Formation	25-May-11	6 31-May-11	0	0%	2011
1A-3A-1350	Capping layer (600mm)	24-May-11	6 01-Jun-11	0	0%	2011
1A-3A-1360	Drainage and Gullies	25-May-11	6 02-Jun-11	0	0%	2011
1A-3A-1370	Mentoles and Catchpits (2 nos)	25-May-11	6 02-Jun-11	0	0%	2011
1A-3A-1380	Ducts and Chambers	27-May-11	4 02-Jun-11	0	0%	2011
1A-3A-1390	Kerbing	30-Jun-11	3 04-Jul-11	0	0%	2011
1A-3A-1400	Footpath Works	05-Jul-11	2 06-Jul-11	0	0%	2011
SURFACING						
1A-3A-1410	220mm Sub-base	22-Aug-11	4 25-Aug-11	0	0%	2011
1A-3A-1420	225mm Base	22-Aug-11	1 22-Aug-11	0	0%	2011
1A-3A-1430	60mm Binder Course	24-Aug-11	1 24-Aug-11	0	0%	2011
1A-3A-1440	35mm Surface Course - Main Carriageway and Boundary	25-Aug-11	1 25-Aug-11	0	0%	2011
ROAD FINISHING						
1A-3A-1480	Parapets, Guard rails	30-Jun-11	2 01-Jul-11	0	0%	2011
1A-3A-1490	Landscape	04-Jul-11	2 05-Jul-11	0	0%	2011
1A-3A-1450	Traffic Signals / Pedestrian Crossings	26-Aug-11	5 01-Sep-11	0	0%	2011
1A-3A-1460	Grind Rail Joint and Sealing Compound	02-Sep-11	1 02-Sep-11	0	0%	2011
1A-3A-1470	Road Signs and Markings	05-Sep-11	1 05-Sep-11	0	0%	2011
1A-3A-1500	Remove temporary traffic management	06-Sep-11	1 06-Sep-11	0	0%	2011
COMMISSIONING AND TESTING						
1A-3A-TEST-100	Handover / Acceptance of Roadworks and Trackworks	07-Sep-11	5 03-Sep-11	0	0%	2011
1A-3A-TEST-110	Start removing EDM works along track	14-Sep-11	0	0	0%	2011
TTM PHASE 3B (CH - 1200-1400)						
1A-TTM-03B-1000	TTM PHASE 3B - Road closed (Ch:1200-1400)	28-Oct-12	0 23-Oct-12	0	0%	2012
1A-TTM-03B-1010	TTM PHASE 3B COMPLETE	29-Oct-12	0	0	0%	2012
VICTORIA DOCK ENTRANCE BRIDGE (S16)						
1A-3B-S16-1000	VICTORIA DOCK ENTRANCE BRIDGE COMPLETE	24-Oct-12	0 24-Oct-12	0	0%	2012
TEMPORARY AND PRELIMINARY WORKS						
1A-3B-S16-1010	Mobilisation, site installation and temporary fencing	29-Oct-12	1 29-Oct-12	0	0%	2012
OUTBOUND						
1A-3B-S16-1040	Remove existing Deck Surfacing (Road)	30-Oct-12	55 25-Jan-13	0	0%	2012
Demolition works						
1A-3B-S16-1020	Remove existing Parapet Barrier	30-Oct-12	37 03-Dec-12	0	0%	2012
1A-3B-S16-1030	Remove existing Surfacing (Verge)	31-Oct-12	1 31-Oct-12	0	0%	2012
1A-3B-S16-1050	Remove existing Deck Surfacing (Road)	01-Nov-12	3 05-Nov-12	0	0%	2012
1A-3B-S16-1060	Remove existing Verge and Copes (hydroblowdown)	06-Nov-12	10 19-Nov-12	0	0%	2012

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█ Actual Work
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 Checked: JAC
 Approved:

Activity	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year
1A-3B-S16-1000	Hydrodemolition of Service Voids in East/West Accessways	26-Nov-12	10	04-Dec-12	0%	2013
Construction						
1A-3B-S16-1070	RC Bridge deck	04-Dec-12	10	13-Dec-12	0%	2013
1A-3B-S16-1080	New RC parapet	18-Dec-12	7	08-Jan-13	0%	2013
1A-3B-S16-1090	Install Steel Hangers for Tram Ducts	09-Jan-13	9	17-Jan-13	0%	2013
1A-3B-S16-1100	Install Parapet barriers	09-Jan-13	3	11-Jan-13	0%	2013
1A-3B-S16-1100	Lay Tram Ducts	14-Jan-13	3	15-Jan-13	0%	2013
1A-3B-S16-1140	Paint Parapet barriers???	14-Jan-13	5	18-Jan-13	0%	2013
1A-3B-S16-1110	O&E foundations (2tr)	16-Jan-13	1	16-Jan-13	0%	2013
1A-3B-S16-1120	O&E Pile/Lighting Columns (2tr)	17-Jan-13	1	17-Jan-13	0%	2013
Foundation Works						
1A-3B-S16-1150	Waterproofing (North side)	14-Jan-13	1	14-Jan-13	0%	2013
1A-3B-S16-1160	Red sand asphalt (Verge)	15-Jan-13	1	15-Jan-13	0%	2013
1A-3B-S16-1170	Keelring	16-Jan-13	1	16-Jan-13	0%	2013
1A-3B-S16-1180	Permanent services (by others)	17-Jan-13	5	23-Jan-13	0%	2013
1A-3B-S16-1190	Mill concrete layer	24-Jan-13	1	24-Jan-13	0%	2013
1A-3B-S16-1200	Pavedrain paving	25-Jan-13	1	25-Jan-13	0%	2013
1A-3B-S16-1200		25-Jan-13	50	05-Apr-13	21%	2013
REBOUND						
Demolition works						
1A-3B-S16-1210	Remove existing Parapet Barrier	25-Jan-13	27	25-Feb-13	20%	2013
1A-3B-S16-1220	Remove existing Signaling/Verge (Footway/Cycleway)	26-Jan-13	1	26-Jan-13	0%	2013
1A-3B-S16-1230	Remove existing Verge and Copings (Hydrodemolition)	26-Jan-13	10	11-Feb-13	0%	2013
1A-3B-S16-1240	Hydrodemolition of Service Voids in East/West Accessways	12-Feb-13	10	25-Feb-13	0%	2013
Construction						
Bridge Deck						
1A-3B-S16-1250	RC Bridge deck	26-Feb-13	10	11-Mar-13	0%	2013
1A-3B-S16-1260	New RC parapet	12-Mar-13	10	25-Mar-13	0%	2013
1A-3B-S16-1270	Install Steel Hangers for Tram Ducts	26-Mar-13	2	27-Mar-13	0%	216
1A-3B-S16-1280	Install Parapet barriers	26-Mar-13	2	27-Mar-13	0%	216
1A-3B-S16-1290	Lay Tram Ducts	26-Mar-13	9	03-Apr-13	0%	216
1A-3B-S16-1300	Paint Parapet barriers???	26-Mar-13	5	04-Apr-13	0%	216
Cycleway / Footway (South)						
1A-3B-S16-1310	Waterproofing (South side and Trackway)	26-Mar-13	1	26-Mar-13	0%	216
1A-3B-S16-1320	Red sand asphalt	27-Mar-13	1	27-Mar-13	0%	216
1A-3B-S16-1330	Keelring	26-Mar-13	1	28-Mar-13	0%	216
1A-3B-S16-1340	Permanent services (by others??)	01-Apr-13	5	05-Apr-13	0%	216
1A-3B-S16-1350	Mill concrete layer	03-Apr-13	1	03-Apr-13	0%	216
1A-3B-S16-1390	Surfacing	04-Apr-13	1	04-Apr-13	0%	216
ROAD TRACKWORKS (Ch. 1200 - 1400)						
TEMPORARY AND PRELIMINARY WORKS						
1A-3B-1000	Site clearance	30-Oct-12	5	05-Nov-12	24%	245
1A-3B-010	Investigate services / callout positions / pre-construction / levels	01-Nov-12	3	03-Nov-12	0%	245
TRACK IMPROVEMENT						
1A-3B-1020	COMMENCE TRACK WORKS (Ch. 1200-1400)	01-Nov-12	52	24-Jan-13	24%	245

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Actual Work

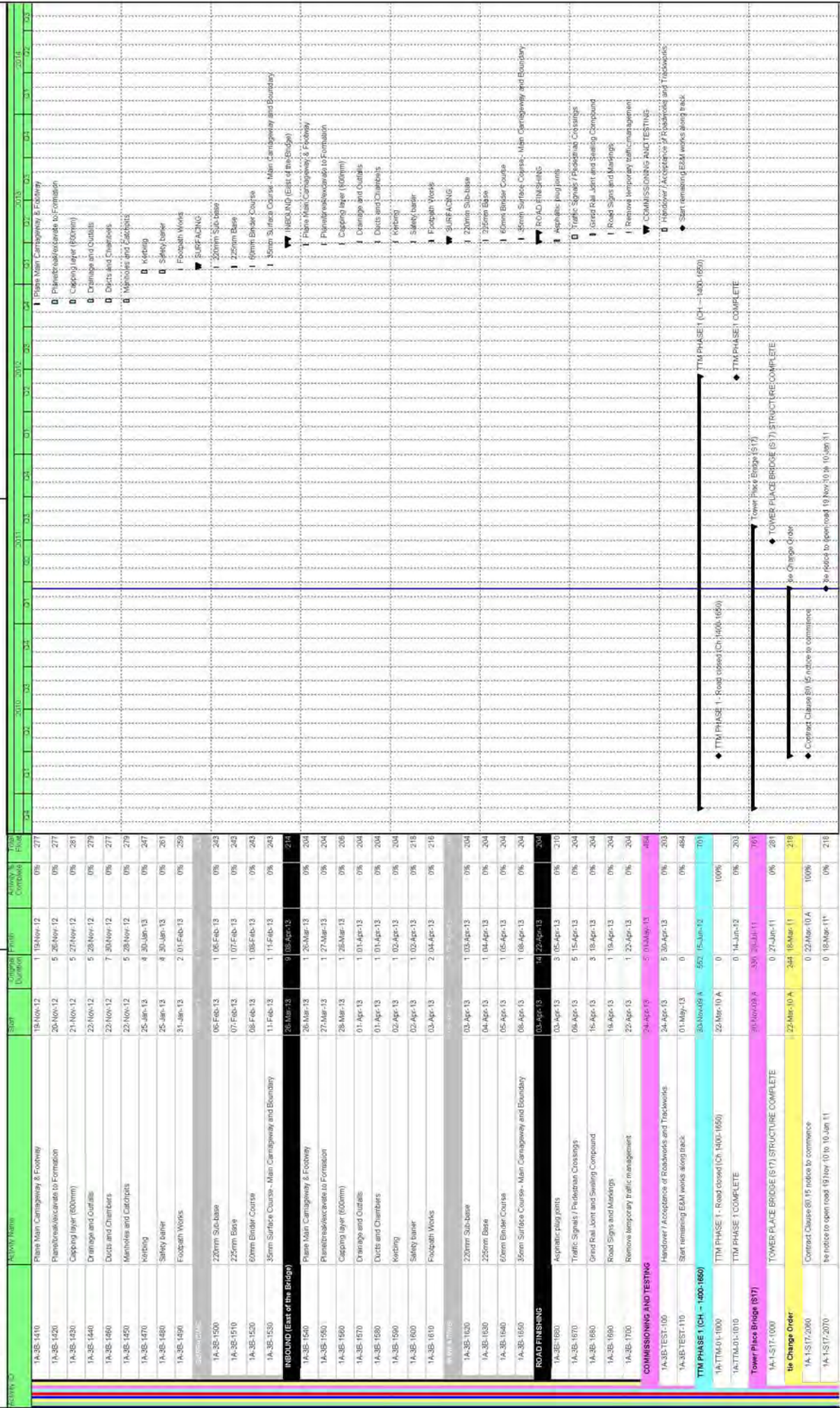
Remaining Work

Critical Remaining Work

Milestone

% Complete

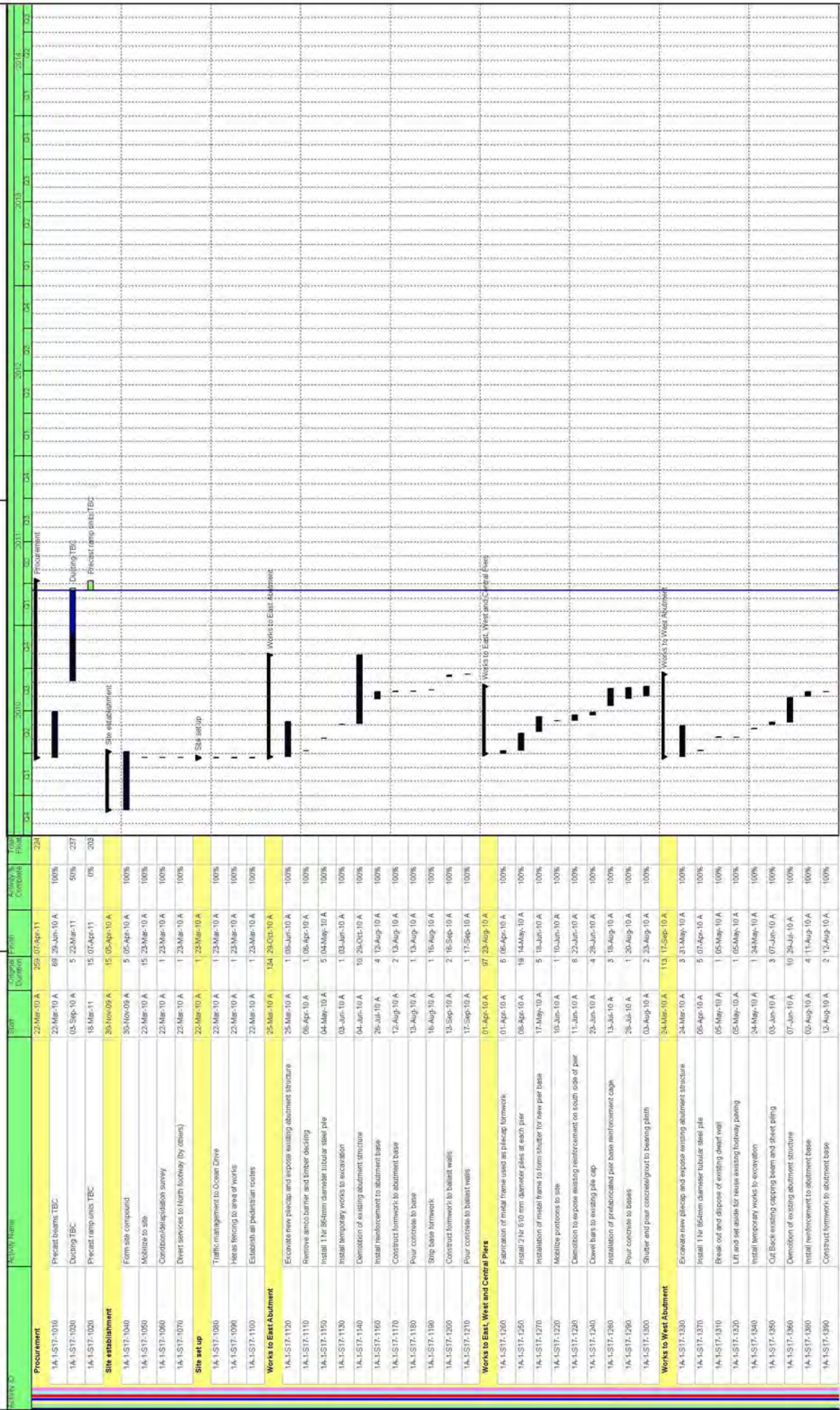
Summary



Update Programme

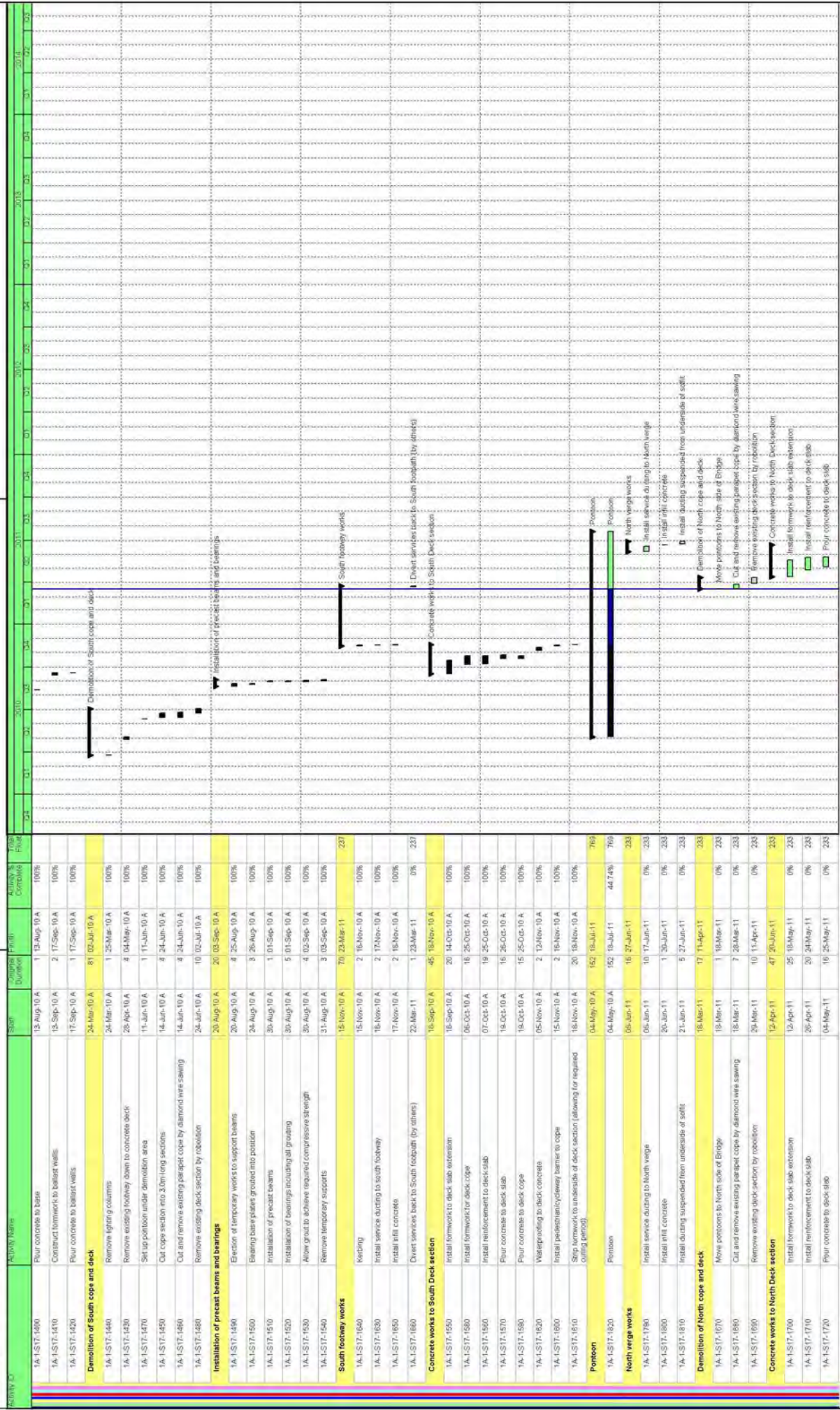
Updated for V67 Design Programme,
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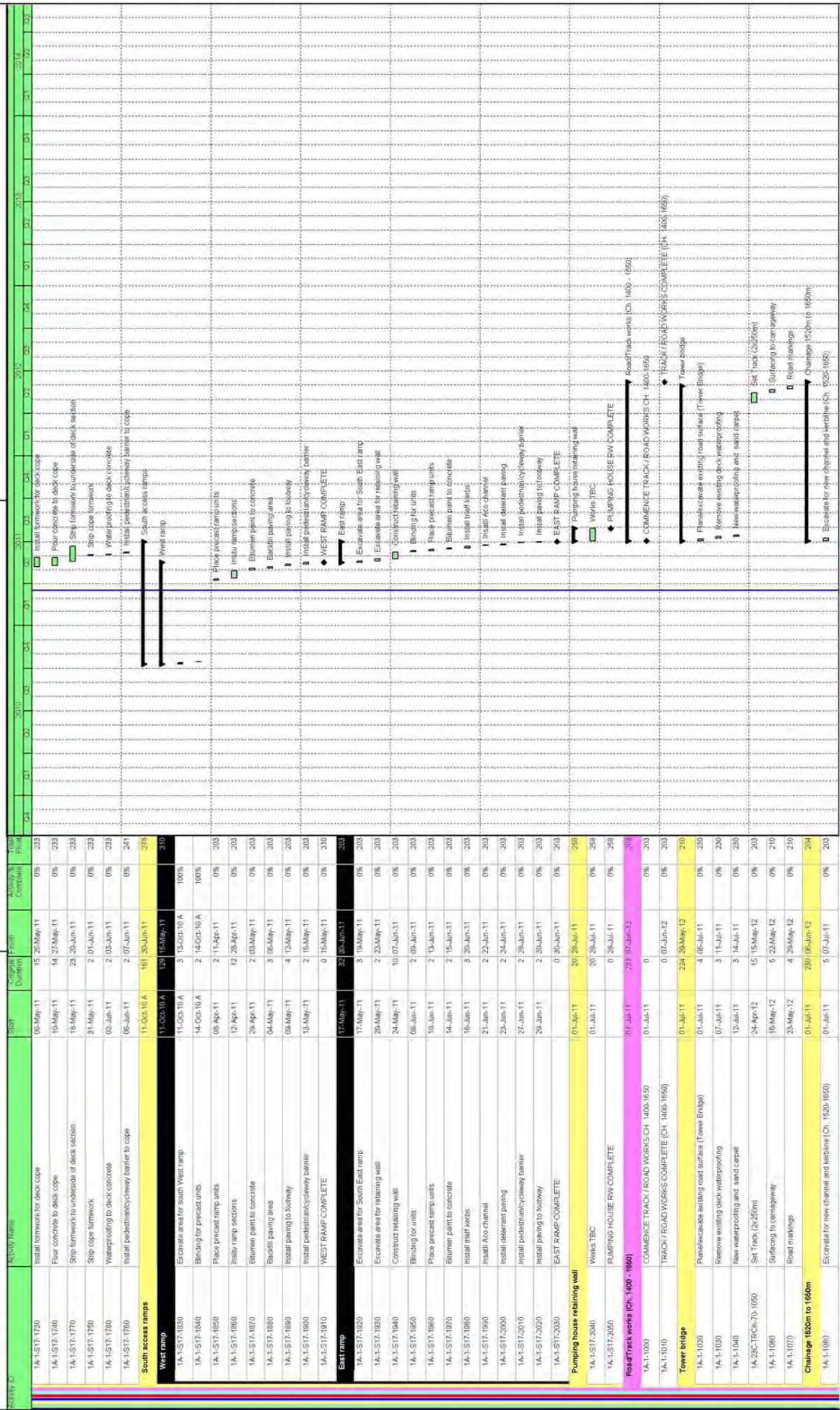


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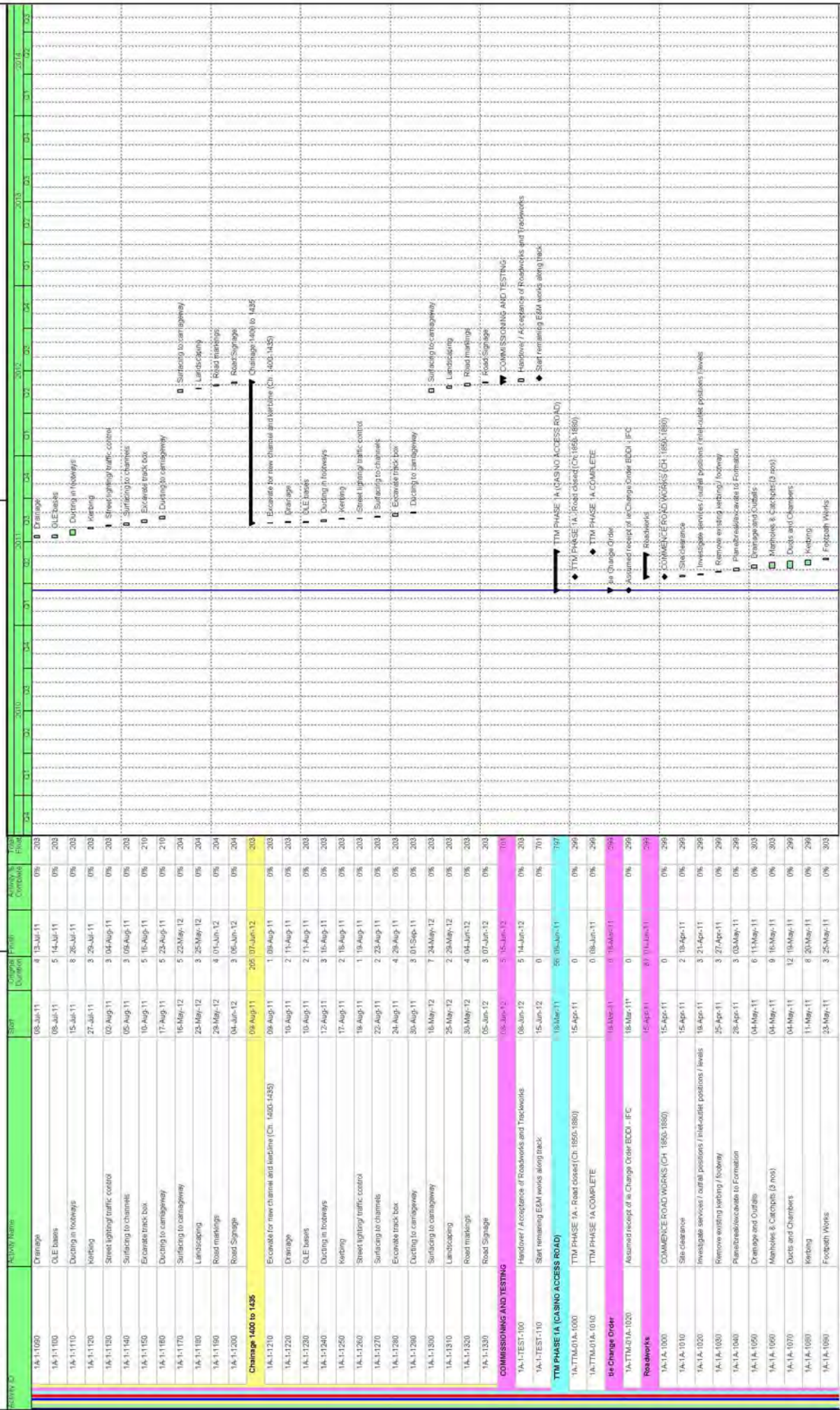
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Date	Revision	Checked	Approved
11-Mar-11	ETN Updated Programme - Progress to 18 Mar 11	JAC	



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Date	Revision	Checked	Approved
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Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year Placed
1A-1A-1100	Siteclearing	25-May-11	3	25-May-11	0%	2011
1A-1A-1110	Road Signs and Markings	26-May-11	1	26-May-11	0%	2011
1A-1A-1120	Landscape	27-May-11	3	01-Jun-11	0%	2011
1A-1A-1130	ROAD WORKS COMPLETE (CH 1850-1880)	01-Jun-11	0	01-Jun-11	0%	2011
Casino Square to Baltic Street CH 1880 - 2110						
			0		0	
COMMISSIONING AND TESTING						
1A-1A-TEST-100	Handover / Acceptance of Roadworks	02-Jun-11	5	08-Jun-11	0%	2011
1A-1A-TEST-110	Start remaining EAM works along track	09-Jun-11	0		0%	2011
TTM PHASE 2 (CH - 1650-1880)						
1A-TTM-02-1000	TTM PHASE 2 - Road Opened (Ch. 1650-1880)	15-Jun-12	96	26-Sep-12	0%	2012
1A-TTM-02-1010	TTM PHASE 2 COMPLETE	15-Jun-12	0		0%	2012
1A-TTM-02-1020	TTM PHASE 2 COMPLETE	15-Jun-12	0	26-Oct-12	0%	2012
TEMPORARY AND PRELIMINARY WORKS						
1A-2-1000	Site clearance	15-Jun-12	2	16-Jun-12	0%	2012
1A-2-1010	Investigate services / outfall positions / traffic/outlet positions / levels	16-Jun-12	9	21-Jun-12	0%	2012
TRACK IMPROVEMENT						
1A-2-1020	COMMENCE TRACK WORKS (CH - 1650-1880)	16-Jun-12	50	28-Aug-12	21%	2012
1A-2-1030	Remove existing footways/paths etc	16-Jun-12	0		0%	2012
1A-2-1040	Plane out existing surfacing over Trams Footprint (1st cut)	16-Jun-12	5	25-Jun-12	0%	2012
1A-2-1050	Carry out inspection and testing of Subgrade	26-Jun-12	2	27-Jun-12	0%	2012
1A-2-1060	Survey Separation - Train Ducts Outer Edge	26-Jun-12	1	26-Jun-12	0%	2012
1A-2-1070	Break Out / Excavate to formation of Train Footprint (2nd cut)	26-Jun-12	8	02-Jul-12	0%	2012
1A-2-1080	Place Sub-base Type 1	26-Jun-12	10	02-Jul-12	0%	2012
1A-2-1090	Train Ducts & Chambers	06-Jul-12	18	27-Jul-12	0%	2012
1A-2-1100	Drainage and Outfalls	06-Jul-12	10	20-Jul-12	0%	2012
1A-2-1110	Excavate and Cast OLE Foundations (1st nos)	13-Jul-12	10	09-Aug-12	0%	2012
1A-2-1130	Prepare and check suitability of Formation	23-Jul-12	15	13-Aug-12	0%	2012
1A-2-1150	Track Improvement Layer - Outbound	25-Jul-12	20	22-Aug-12	0%	2012
1A-2-1140	Installation of IMU Drains and Cable Ducting	25-Jul-12	15	15-Aug-12	0%	2012
1A-2-1120	Lay SL Duct to OLE	30-Jul-12	8	09-Aug-12	0%	2012
1A-2-1160	Track Improvement Layer - Inbound	31-Jul-12	20	28-Aug-12	0%	2012
TRACK INSTALLATION						
1A-2-1170	TRACK WORKS COMPLETE (CH - 1650-1880)	16-Aug-12	23	14-Sep-12	23%	2012
INBOUND/OUTBOUND						
1A-2-1180	Access Available for Track Laying	10-Aug-12	23	11-Sep-12	30%	2012
1A-2SD-TRC/70-1160	Set Up track (sleeper trial) - 2x 230m + mob	10-Aug-12	0		0%	2012
1A-2-1200	Welding and grinding	14-Aug-12	28	11-Sep-12	0%	2012
1A-2-1210	Drainage / Rail Connections	14-Aug-12	18	06-Sep-12	0%	2012
1A-2-1220	Final Rail Alignment - Check and Approve	14-Aug-12	18	06-Sep-12	0%	2012
1A-2SD-SGH-60-1200	Installation of IMU Boxes and Loops	15-Aug-12	3	17-Aug-12	0%	2012
1A-2-1240	150mm Concrete Supporting Layer	15-Aug-12	16	06-Sep-12	0%	2012
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)						
1A-2-1250	110mm Roadbase	14-Sep-12	3	18-Sep-12	24%	2012
1A-2-1260	50mm Bitcourse	17-Sep-12	1	17-Sep-12	0%	2012
1A-2-1270	35mm Wearing Course	18-Sep-12	1	18-Sep-12	0%	2012
CENTRAL RESERVE AND BOUNDARY						
		07-Sep-12	14	20-Sep-12	20%	2012

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█ Actual Work
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 Approved:

Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year Plan
1A-2-1280	Rolling to Central Reserve (excl Tramstop)	07-Sep-12	5	14-Sep-12	0%	2012
1A-2-1290	Sub-base to Central Reserve	13-Sep-12	2	14-Sep-12	0%	2012
1A-2-1300	Central Reserve Finishes	9-Sep-12	9	28-Sep-12	0%	2012
CARRIAGEWAY / FOOTWAY PAVENMENT CONSTRUCTION						
1A-2-1310	COMMENCE ROAD WORKS (CH 1650-1880)	26-Jun-12	0	14-Oct-12	20%	2012
1A-2-1320	ROAD WORKS COMPLETE (CH 1650-1880)	26-Jun-12	0	15-Oct-12	0%	2012
OUTBOUND						
1A-2-1330	Plane Main Carriageway & Footway	26-Jun-12	50	07-Sep-12	33%	2012
1A-2-1340	Planefinish/castcrete to Formation	26-Jun-12	2	02-Jul-12	0%	2012
1A-2-1350	Capping layer (600mm)	04-Jul-12	6	10-Jul-12	0%	2012
1A-2-1360	Drainage and Outlets	05-Jul-12	7	12-Jul-12	0%	2012
1A-2-1370	Ducts and Chambers	05-Jul-12	10	18-Jul-12	0%	2012
1A-2-1380	Excavate and cast OLE Foundations (4 nos)	11-Jul-12	7	18-Jul-12	0%	2012
1A-2-1390	kerbing	23-Aug-12	7	31-Aug-12	0%	2012
1A-2-1400	Footpath Works	03-Sep-12	5	07-Sep-12	0%	2012
SURFACING						
1A-2-1410	220mm Sub-base	03-Sep-12	4	06-Sep-12	22%	2012
1A-2-1420	225mm Base	03-Sep-12	1	03-Sep-12	0%	2012
1A-2-1430	60mm Binder Course	04-Sep-12	1	04-Sep-12	0%	2012
1A-2-1440	35mm Surface Course - Main Carriageway and Boundary	05-Sep-12	1	05-Sep-12	0%	2012
INBOUND						
1A-2-1450	Plane Main Carriageway & Footway	07-Sep-12	20	04-Oct-12	21%	2012
1A-2-1460	Planefinish/castcrete to Formation	07-Sep-12	2	10-Sep-12	0%	2012
1A-2-1470	Capping layer (600mm)	11-Sep-12	7	19-Sep-12	0%	2012
1A-2-1480	Drainage and Outlets	12-Sep-12	7	20-Sep-12	0%	2012
1A-2-1490	Ducts and Chambers	13-Sep-12	7	21-Sep-12	0%	2012
1A-2-1500	Excavate and cast OLE Foundations (1 nos)	14-Sep-12	6	21-Sep-12	0%	2012
1A-2-1510	kerbing	26-Sep-12	5	26-Sep-12	0%	2012
1A-2-1520	Footpath Works	26-Sep-12	5	04-Oct-12	0%	2012
SURFACING						
1A-2-1530	220mm Sub-base	26-Sep-12	4	03-Oct-12	26%	2012
1A-2-1540	225mm Base	01-Oct-12	1	01-Oct-12	0%	2012
1A-2-1550	60mm Binder Course	02-Oct-12	1	03-Oct-12	0%	2012
1A-2-1560	35mm Surface Course - Main Carriageway and Boundary	03-Oct-12	1	03-Oct-12	0%	2012
ROAD FINISHING						
1A-2-1570	Paradeys, Guard rails	26-Sep-12	22	19-Oct-12	20%	2012
1A-2-1580	Landscape	26-Sep-12	6	27-Sep-12	0%	2012
1A-2-1590	Installation of traffic light control - Junction 11	26-Sep-12	5	04-Oct-12	0%	2012
1A-2-1600	Installation of traffic light control - Junction 10	04-Oct-12	9	18-Oct-12	0%	2012
1A-2-1610	Grid Rail Joint and Sealing Compound	17-Oct-12	1	17-Oct-12	0%	2012
1A-2-1620	Road Signs and Markings	18-Oct-12	1	18-Oct-12	0%	2012
1A-2-1630	Remove temporary traffic management	18-Oct-12	1	18-Oct-12	0%	2012
COMMISSIONING AND TESTING						
1A-2-1631-100	Handover / Acceptance of Roadworks and Trackworks	22-Oct-12	5	26-Oct-12	0%	2012
1A-2-1631-110	Start remaining ESM works along track	26-Oct-12	0		0%	2012

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Actual Work Remaining Work Critical Remaining Work % Complete

ETN Updated Programme - Progress to 18 Mar 11

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Summary

Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Task Prior
PORT OF LEITH TRAM STOP						
1A-22-TRMS-20(3)	Order REC-Supply	25-Mar-08 A	0	20-Mar-13	100%	258
1A-21-TS-10(10)	Ducting and Chambers	22-Jun-12	21	20-Jul-12	0%	222
1A-21-TS-10(0)	COMMENCE PORT OF LEITH TRAM STOP (Design available)	22-Jun-12	0		0%	222
1A-21-TS-10(20)	Tramstop Platform	22-Jun-12	45	24-Sep-12	0%	222
1A-22-TRMS-30(3)	Access for visual inspection for EAM Tram Stop installation (01A Ocean Drive)	07-Sep-12	0		0%	871
1A-21-TS-10(40)	PORT OF LEITH TRAM STOP - CIVIL WORKS COMPLETE	25-Sep-12	0	24-Sep-12	0%	222
1A-21-TS-10(50)	Deliver and install Tramstop Shelter (tsa)	25-Sep-12	0		0%	820
1A-21-TS-10(60)	Start remaining EAM works on Tramstop	25-Sep-12	0		0%	820
1A-22-TRMS-40(3)	Deliver and install shelter	25-Sep-12	10	08-Oct-12	0%	270
1A-22-TRMS-31(3)	Access for EAM Tram Stop installation (01A Ocean Drive)	08-Oct-12	0		0%	294
1A-22-TRMS-45	Deliver and install cubicle	08-Dec-12	10	20-Dec-12	0%	73
1A-22-TRMS-50(3)	Install LV Power Supply and LV Power Equipment	26-Dec-12	25	06-Feb-13	0%	458
1A-22-TRMS-70(3)	Install Station Equipment	06-Feb-13	20	06-Mar-13	0%	268
1A-22-TRMS-80(3)	Install Station Control Equipment + AFC Equipment	06-Feb-13	25	13-Mar-13	0%	458
1A-22-TRMS-90(3)	Site Acceptance Test Tramstop	13-Mar-13	5	20-Mar-13	0%	458
15	Port of Leith (inc.) to Bernard Street (exc)	02-Feb-08 A	1702	12-Dec-12	43.57%	254
15	Ocean Drive (inc.) to Contribution Street (exc)	02-Feb-08 A	1772	24-Dec-13	43.57%	254
12060	Design	05-Feb-08 A	522	18-Mar-11	100%	252
12060	Issue Construction Drawings (Road & Track Works)	0	03-Feb-09 A		100%	
1A-2-DS5-TRMS-110	Issue Construction Drawings (Port of Leith Tram Stop)	0	16-Feb-09 A		100%	
1A-2-DS5-ROAD-110	ISC Drawings - Final TS Drawings incl. slope equipment - Port of Leith Tram Stop	0	04-Mar-10 A		100%	
1A-2-DS5-ROAD-110	Re-Issue Construction Drawings Roadworks (Port of Leith to Bernard Street)	0	16-Mar-11*		0%	28
MUDFA & UTILITIES						
1A-MUDFA-17	MUDFA & Utilities work completion (Ch. 1000 - 2000) - 16-Mar-11	16-Mar-11	0	18-Mar-11	0%	563
1A-MUDFA-16	MUDFA & Utilities work completion (Ch. 1000 - 2000) - 16-Mar-11	16-Mar-11	0	18-Mar-11	0%	563
1A-MUDFA-15	MUDFA & Utilities work completion (Ch. 2100 - 2200) - 16-Mar-11	16-Mar-11	0	18-Mar-11	0%	563
1A-MUDFA-14	MUDFA & Utilities work completion (Ch. 2100 - 2200) - 16-Mar-11	16-Mar-11	0	18-Mar-11	0%	563
1A-2-CHGE-170	Agreement of Change (BDOUFC) - Trackwork	16-Mar-11	0	18-Mar-11	0%	590
1A-2-CHGE-160	Agreement of Change (BDOUFC) - Roadwork	16-Mar-11	0	18-Mar-11	0%	563
1A-2-CHGE-160	Agreement of Change (BDOUFC) - Bernard ST S	16-Mar-11	0	18-Mar-11	0%	633
TTM PHASE (18) (CH - 1895-1957)						
1A-TTM-18-10(0)	TTM PHASE (18) - Road closed (Ch - 1895-1957)	01-May-13	76	23-Aug-13	0%	409
1A-TTM-18-10(10)	TTM PHASE (18) COMPLETE	01-May-13	0	18-Aug-13	0%	214
TEMPORARY AND PRELIMINARY WORKS						
1A-18-10(0)	Establish temporary traffic management	01-May-13	3	07-May-13	0%	214
1A-18-10(10)	Site clearance	02-May-13	1	02-May-13	0%	214
1A-18-10(20)	Investigate services / utility positions / in-vehicle positions / levels	03-May-13	1	03-May-13	0%	214
1A-18-10(30)	COMMENCE TRACK/ROAD WORKS (CH - 1895-1957)	07-May-13	0		0%	214
OUTBOUND						
1A-18-10(40)	TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE	07-May-13	30	26-Jun-13	0%	214
1A-18-10(50)	Remove existing footway	07-May-13	1	07-May-13	0%	214
1A-18-10(60)	Plane out existing surfacing over Trams Footprint (115 cut)	08-May-13	1	08-May-13	0%	214
1A-18-10(70)	Carry out inspection and testing of Subgrade	08-May-13	1	08-May-13	0%	214
1A-18-10(80)	Sewer Separation - Trams Ducts Outer Edge	08-May-13	1	08-May-13	0%	214

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Legend:
█ Actual Work
█ Critical Remaining Work
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█ Milestone
◆ % Complete
▬ Summary

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Activity Name	Activity Start	Activity Finish	Activity % Complete	Year	2009	2010	2011	2012	2013	2014	2015	2016	2017
1A-18-1080	Break Out / Excavate to formation of Train Footprint (2nd cut)	16-May-13	2	13-May-13	0%	214							
1A-18-1100	Capping layer (600mm)	13-May-13	2	14-May-13	0%	241							
1A-18-1090	Place Sub-base Type 1 (Track)	13-May-13	2	14-May-13	0%	241							
1A-18-1110	Drainage and Outlets	14-May-13	2	15-May-13	0%	222							
1A-18-1120	Train Ducts & Chambers	14-May-13	3	15-May-13	0%	229							
1A-18-1130	Excavate and Cast OLE Foundations (In nos)	14-May-13	15	04-Jun-13	0%	214							
1A-18-1150	Prepare and check suitability of Foundation	29-May-13	5	04-Jun-13	0%	214							
1A-18-1140	Lay SL Duct to OLE	31-May-13	9	04-Jun-13	0%	218							
1A-18-1160	Track Impediment Layer	31-May-13	7	10-Jun-13	0%	214							
1A-18-1170	Installation of IMU Drains and Cable Ducting	31-May-13	5	05-Jun-13	0%	219							
1A-18-1180	Relaying	21-Jun-13	1	21-Jun-13	0%	214							
1A-18-1190	Flushout Works	24-Jun-13	3	26-Jun-13	0%	214							
TRACK INSTALLATION													
1A-18-1200	Access Available for Track Laying	11-Jun-13	9	20-Jun-13	214								
1A-22A-TRC-06-1210	Set Up track (sheepcote) - 1 x 65m	11-Jun-13	0		214								
1A-18-1220	Welding and grinding	11-Jun-13	4	14-Jun-13	0%	214							
1A-18-1230	Drainage / Rain Connections	13-Jun-13	2	14-Jun-13	0%	214							
1A-18-1240	Final Rail Alignment - Check and Approve	13-Jun-13	2	14-Jun-13	0%	214							
1A-18-1250	Installation of IMU Boxes and Loops	14-Jun-13	1	14-Jun-13	0%	215							
1A-18-1260	185mm Concrete Supporting Layer	17-Jun-13	4	20-Jun-13	0%	214							
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)													
1A-18-1270	110mm Roadbase	21-Jun-13	3	25-Jun-13	445								
1A-18-1280	50mm Basecourse	21-Jun-13	1	21-Jun-13	0%	445							
1A-18-1290	35mm Wearing Course	24-Jun-13	1	24-Jun-13	0%	445							
25-Jun-13		25-Jun-13	1	25-Jun-13	0%	445							
21-Jun-13		21-Jun-13	4	26-Jun-13	445								
1A-18-1300	220mm Sub-base	21-Jun-13	1	21-Jun-13	0%	445							
1A-18-1310	255mm Base	24-Jun-13	1	24-Jun-13	0%	445							
1A-18-1320	60mm Binder Course	25-Jun-13	1	25-Jun-13	0%	445							
1A-18-1330	35mm Surface Course - Main Carrageway and Boundary	26-Jun-13	1	26-Jun-13	0%	445							
24-Jun-13		24-Jun-13	3	26-Jun-13	214								
1A-18-1340	Parapets, Guard rails	24-Jun-13	1	24-Jun-13	0%	215							
1A-18-1350	Road Signs and Markings	25-Jun-13	1	25-Jun-13	0%	215							
1A-18-1360	Landscaping	25-Jun-13	1	25-Jun-13	0%	215							
1A-18-1370	Divert traffic onto Outbound	25-Jun-13	0	25-Jun-13	0%	214							
INBOUND													
27-Jun-13		27-Jun-13	53	18-Aug-13	214								
TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE													
1A-18-1400	Remove existing footway	27-Jun-13	29	05-Aug-13	215								
1A-18-1410	Place out existing surfacing over Trains Footprint (1st cut)	27-Jun-13	1	27-Jun-13	0%	214							
1A-18-1420	Carry out inspection and testing of Subgrade	28-Jun-13	1	28-Jun-13	0%	214							
1A-18-1430	Sawcut Separation - Train Ducts Outer Edge	01-Jul-13	1	01-Jul-13	0%	214							
1A-18-1440	Break Out / Excavate to formation of Train Footprint (2nd cut)	02-Jul-13	3	03-Jul-13	0%	214							
1A-18-1450	Capping layer (600mm)	03-Jul-13	2	04-Jul-13	0%	226							
1A-18-1460	Place Sub-base Type 1 (Track)	03-Jul-13	2	04-Jul-13	0%	226							
1A-18-1470	Drainage and Outlets	04-Jul-13	2	05-Jul-13	0%	214							
1A-18-1480	Train Ducts & Chambers	04-Jul-13	3	08-Jul-13	0%	215							

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█ Actual Work
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 Checked: JAC
 Approved:

Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity Name	Activity Start	Activity Finish	Activity % Complete	Year	2009	2010	2011	2012	2013	2014	2015	2016	2017
1A-18-1510	06-Jul-13	2 08-Jul-13	0%	214									
1A-18-1490	09-Jul-13	0 09-Jul-13	0%	215									
1A-18-1500	09-Jul-13	0 09-Jul-13	0%	222									
1A-18-1520	09-Jul-13	7 18-Jul-13	0%	214									
1A-18-1530	10-Jul-13	2 11-Jul-13	0%	219									
1A-18-1540	31-Jul-13	1 31-Jul-13	0%	217									
1A-18-1550	01-Aug-13	3 06-Aug-13	0%	218									
TRACK INSTALLATION													
1A-18-1560	19-Jul-13	8 30-Jul-13	214										
1A-18-1570	19-Jul-13	0	0%	214									
1A-22A-TRK-10-1570	19-Jul-13	4 24-Jul-13	0%	214									
1A-18-1580	23-Jul-13	2 24-Jul-13	0%	214									
1A-18-1590	23-Jul-13	2 24-Jul-13	0%	214									
1A-18-1600	23-Jul-13	2 24-Jul-13	0%	214									
1A-18-1610	24-Jul-13	1 24-Jul-13	0%	215									
1A-18-1620	25-Jul-13	4 30-Jul-13	0%	214									
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)													
1A-18-1630	31-Jul-13	3 02-Aug-13	215										
1A-18-1640	31-Jul-13	1 31-Jul-13	0%	214									
1A-18-1650	01-Aug-13	1 01-Aug-13	0%	215									
1A-18-1660	02-Aug-13	1 02-Aug-13	0%	215									
SURFACING													
1A-18-1670	31-Jul-13	4 06-Aug-13	214										
1A-18-1680	31-Jul-13	1 31-Jul-13	0%	214									
1A-18-1690	01-Aug-13	1 01-Aug-13	0%	214									
1A-18-1690	02-Aug-13	1 02-Aug-13	0%	214									
1A-18-1680	06-Aug-13	1 06-Aug-13	0%	214									
ROAD FINISHING													
1A-18-1710	01-Aug-13	3 06-Aug-13	0%	217									
1A-18-1700	01-Aug-13	1 01-Aug-13	0%	217									
1A-18-1740	02-Aug-13	1 03-Aug-13	0%	218									
1A-18-1720	07-Aug-13	2 08-Aug-13	0%	214									
1A-18-1730	08-Aug-13	1 08-Aug-13	0%	214									
1A-18-1750	12-Aug-13	1 13-Aug-13	0%	214									
1A-18-1760	01-Aug-13	0 13-Aug-13	0%	214									
COMMISSIONING AND TESTING													
1A-18-TEST-100	13-Aug-13	5 18-Aug-13	0%	214									
1A-18-TEST-110	20-Aug-13	0	0%	408									
TTM PHASE (T7) (CH - 1957-2012)													
1A-TM-17-1000	04-Sep-13	71 13-Oct-13	334										
1A-TM-17-1010	04-Sep-13	0	0%	213									
TEMPORARY AND PRELIMINARY WORKS													
1A-17-1030	04-Sep-13	3 06-Sep-13	213										
1A-17-1010	05-Sep-13	1 05-Sep-13	0%	213									
1A-17-1020	06-Sep-13	1 06-Sep-13	0%	213									
1A-17-1030	06-Sep-13	0	0%	213									
OUTBOUND													
TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE	04-Sep-13	29 17-Oct-13	209										
TRACK IMPROVEMENT-ROADWAY	04-Sep-13	29 17-Oct-13	213										

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Legend:
 Actual Work
 Remaining Work
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Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year	2009	2010	2011	2012	2013	2014	2015	2016	2017
1A-17-1040	Remove existing footway	06-Sep-13	1	10-Sep-13	0%	213									
1A-17-1050	Plane out existing surfacing (sets) over Trams Footprint (1st cut)	10-Sep-13	3	12-Sep-13	0%	213									
1A-17-1060	Carry out inspection and testing of Subgrade	13-Sep-13	1	13-Sep-13	0%	213									
1A-17-1070	Salvot Separation - Tram Ducts Outer Edge	13-Sep-13	1	15-Sep-13	0%	213									
1A-17-1080	Break Out / Excavate to formation of Tram Footprint (2nd cut)	16-Sep-13	1	16-Sep-13	0%	213									
1A-17-1110	Drainage and Outlets	17-Sep-13	2	18-Sep-13	0%	214									
1A-17-1100	Capping layer (600mm)	17-Sep-13	1	17-Sep-13	0%	232									
1A-17-1090	Place Sub-base Type 1 (Track)	17-Sep-13	1	17-Sep-13	0%	232									
1A-17-1120	Tram Ducts & Chambers	18-Sep-13	3	20-Sep-13	0%	217									
1A-17-1130	Excavate and Cast OLE Foundations (2 nos)	18-Sep-13	7	26-Sep-13	0%	213									
1A-17-1150	Prepare and check suitability of Formation	20-Sep-13	5	26-Sep-13	0%	213									
1A-17-1140	Lay SL Duct to OLE	24-Sep-13	3	26-Sep-13	0%	217									
1A-17-1160	Track Improvement Layer	24-Sep-13	7	02-Oct-13	0%	213									
1A-17-1170	Installation of IMU Drains and Cable Ducting	24-Sep-13	4	27-Sep-13	0%	216									
1A-17-1180	Keelring	14-Oct-13	1	14-Oct-13	0%	213									
1A-17-1190	Floodpath Works	15-Oct-13	3	17-Oct-13	0%	213									
TRACK INSTALLATION															
1A-17-1200	Access Available for Track Laying	03-Oct-13	0		0%	213									
1A-22BTRCK-06-1210	Set up track (sleepers) - 1 x 28m	03-Oct-13	4	08-Oct-13	0%	213									
1A-17-1220	Welding and grinding	07-Oct-13	2	08-Oct-13	0%	213									
1A-17-1230	Drainage / Rail Connections	07-Oct-13	2	08-Oct-13	0%	213									
1A-17-1240	Final Rail Alignment - Check and Approve	07-Oct-13	2	08-Oct-13	0%	213									
1A-17-1250	Installation of IMU Boxes and Loops	07-Oct-13	1	07-Oct-13	0%	214									
1A-17-1260	180mm Concrete Supporting Layer	08-Oct-13	4	11-Oct-13	0%	213									
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)															
1A-17-1270	110mm Roadbase	14-Oct-13	1	14-Oct-13	0%	365									
1A-17-1280	50mm Bitmaccourse	15-Oct-13	1	15-Oct-13	0%	365									
1A-17-1290	35mm Wearing Course	16-Oct-13	1	16-Oct-13	0%	366									
SURFACING (Sets to re-use? Bc)															
1A-17-1300	20mm Subbase	14-Oct-13	4	17-Oct-13	39%	365									
1A-17-1310	225mm Base	14-Oct-13	1	14-Oct-13	0%	365									
1A-17-1320	60mm Binder Course	15-Oct-13	1	15-Oct-13	0%	395									
1A-17-1330	35mm Surface Course- Main Carriageway and Eboundary	17-Oct-13	1	17-Oct-13	0%	395									
ROAD FINISHING															
1A-17-1350	Road Signs and Markings	15-Oct-13	3	17-Oct-13	21%	213									
1A-17-1360	Landscaping	15-Oct-13	3	17-Oct-13	0%	213									
1A-17-1340	Parapets, Guard rails	15-Oct-13	0	15-Oct-13	0%	213									
1A-17-1370	Divert traffic onto Outbound	16-Oct-13	0	17-Oct-13	0%	213									
INSOUND															
TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE															
1A-17-1400	Remove existing footway	16-Oct-13	20	28-Nov-13	33%	330									
1A-17-1410	Plane out existing surfacing (sets) over Trams Footprint (1st cut)	18-Oct-13	1	18-Oct-13	0%	213									
1A-17-1420	Carry out inspection and testing of Subgrade	21-Oct-13	3	23-Oct-13	0%	213									
1A-17-1430	Salvot Separation - Tram Ducts Outer Edge	24-Oct-13	1	24-Oct-13	0%	213									
1A-17-1440	Break Out / Excavate to formation of Tram Footprint (2nd cut)	25-Oct-13	1	25-Oct-13	0%	213									

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█ Actual Work
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Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
1A-17-1480	Capsoy layer (600mm)	26-Oct-13	1 28-Oct-13		0%	2013
1A-17-1450	Place Sub-base Type 1 (Track)	28-Oct-13	1 28-Oct-13		0%	2013
1A-17-1470	Drainage and Outlets	28-Oct-13	2 30-Oct-13		0%	2013
1A-17-1480	Tram Ducts & Chambers	28-Oct-13	3 31-Oct-13		0%	2013
1A-17-1510	Prepare and check suitability of Formation	31-Oct-13	2 01-Nov-13		0%	2013
1A-17-1490	Excavate and Cast OLE Foundations (0 nos)	01-Nov-13	0 01-Nov-13		0%	2013
1A-17-1500	Lay SL Duct to OLE	01-Nov-13	0 01-Nov-13		0%	2013
1A-17-1530	Track Improvement Layer	04-Nov-13	7 12-Nov-13		0%	2013
1A-17-1540	Installation of MU Drains and Cable Ducting	04-Nov-13	4 07-Nov-13		0%	2013
1A-17-1550	Keelbing	25-Nov-13	1 25-Nov-13		0%	2013
1A-17-1560	Footpath Works	26-Nov-13	3 28-Nov-13		0%	2013
TRACK INSTALLATION						
1A-17-1570	Access Available for Track Laying	13-Nov-13	0		0%	2013
1A-20B-TRC-15-1580	Set Up track (telepresence) --1 x 67m	13-Nov-13	4 18-Nov-13		0%	2013
1A-17-1590	Welding and grinding	15-Nov-13	2 18-Nov-13		0%	2013
1A-17-1600	Drainage / Rail Connections	15-Nov-13	2 18-Nov-13		0%	2013
1A-17-1810	Final Rail Alignment - Check and Approve	15-Nov-13	2 18-Nov-13		0%	2013
1A-17-1620	Installation of MU Boxes and Loops	18-Nov-13	1 18-Nov-13		0%	2013
1A-17-1630	185mm Concrete Supporting Layer	18-Nov-13	4 22-Nov-13		0%	2013
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)						
1A-17-1640	110mm Roadbase	25-Nov-13	3 27-Nov-13		0%	2013
1A-17-1650	55mm Basecourse	25-Nov-13	1 25-Nov-13		0%	2013
1A-17-1660	35mm Wearing Course	26-Nov-13	1 26-Nov-13		0%	2013
1A-17-1700	35mm Surface Course - Main Carriageway and Boundary	27-Nov-13	1 27-Nov-13		0%	2013
SURFACING						
1A-17-1670	20mm Sub-base	25-Nov-13	4 28-Nov-13		0%	2013
1A-17-1680	25mm Base	26-Nov-13	1 26-Nov-13		0%	2013
1A-17-1690	60mm Binder Course	27-Nov-13	1 27-Nov-13		0%	2013
1A-17-1700	35mm Surface Course - Main Carriageway and Boundary	28-Nov-13	1 28-Nov-13		0%	2013
ROAD FINISHING						
1A-17-1720	Installation of traffic light control - Junction 12 (2)	26-Nov-13	7 04-Dec-13		0%	2013
1A-17-1730	Landscape	26-Nov-13	3 28-Nov-13		0%	2013
1A-17-1710	Parapets, Guard rails	26-Nov-13	0 26-Nov-13		0%	2013
1A-17-1720	Grid Rail Joint and Sealing Compound	26-Nov-13	2 03-Dec-13		0%	2013
1A-17-1740	Road Signs and Markings	03-Dec-13	1 03-Dec-13		0%	2013
1A-17-1760	Remove temporary traffic management	04-Dec-13	1 04-Dec-13		0%	2013
1A-17-1770	TRACKROAD WORKS COMPLETE (CH - 1957-2012)	04-Dec-13	0 04-Dec-13		0%	2013
COMMISSIONING AND TESTING						
1A-17-EST-100	Handover / Acceptance of Roadworks and Trackworks	05-Dec-13	5 11-Dec-13		0%	2013
1A-17-EST-110	Start remaining ESM works along track	12-Dec-13	0		0%	2013
TTM PHASE (16) (CH - 2012-2103)						
1A-TTM-16-1000	TTM PHASE (16) - Road closed (Ch - 2012-2103)	01-May-13	87 08-Sep-13		39%	2013
1A-TTM-16-1010	TTM PHASE (16) COMPLETE	01-May-13	0 01-Sep-13		0%	2013
TEMPORARY AND PRELIMINARY WORKS						
1A-16-1000	Establish temporary traffic management	01-May-13	1 01-May-13		0%	2013
1A-16-1010	Site clearance	02-May-13	1 02-May-13		0%	2013

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Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
1A-15-1020	Investigate services / outfall positions / inlets/outside positions / levels	03-May-13	1 03-May-13		0%	2013
1A-15-1020	COMMENCE TRACKROAD WORKS (Ch - 2012-2103)	07-May-13	0		0%	2013
OUTBOUND						
TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE						
1A-15-1040	Remove existing footway	07-May-13	37 27-Jun-13		20%	2013
1A-15-1050	Flare out existing surfining (incl. setts) over Trams Footprint (1st)	07-May-13	1 07-May-13		0%	2013
1A-15-1060	Carry out inspection and testing of Subgrade	05-May-13	5 14-May-13		0%	2013
1A-15-1070	Sawcut Separation - Train Ducts Outer Edge	15-May-13	1 15-May-13		0%	2013
1A-15-1080	Break out / Excavate to formation of Trains Footprint (2nd cut)	15-May-13	4 21-May-13		0%	2013
1A-15-1100	Cappping layer (600mm)	17-May-13	4 22-May-13		0%	2013
1A-15-1090	Place Sub-base Type 1 (Track)	17-May-13	4 22-May-13		0%	2013
1A-15-1120	Train Ducts & Chambers	20-May-13	4 23-May-13		0%	2013
1A-15-1130	Excavate and Cast OLE Foundations (1 nos)	20-May-13	5 24-May-13		0%	2013
1A-15-1110	Drainage and Outlets	22-May-13	3 24-May-13		0%	2013
1A-15-1140	Lay SL Duct to OLE	23-May-13	2 24-May-13		0%	210
1A-15-1150	Prepare and check suitability of Formation	23-May-13	2 24-May-13		0%	203
1A-15-1160	Track Improvement Layer	25-May-13	7 05-Jun-13		0%	203
1A-15-1170	Installation of MU Drains and Cable Ducting	25-May-13	4 31-May-13		0%	206
1A-15-1180	kerbing	19-Jun-13	2 25-Jun-13		0%	203
1A-15-1190	Footpath Works	21-Jun-13	5 26-Jun-13		0%	203
TRACK INSTALLATION						
1A-15-1200	Access Available for Track Laying	06-Jun-13	9 15-Jun-13		20%	203
1A-220-TRC-360-210	Set Up track (disregard) - 1 x 67m	06-Jun-13	0		0%	203
1A-15-1220	Welding and grouting	06-Jun-13	4 11-Jun-13		0%	203
1A-15-1230	Drainage / Rail Connections	10-Jun-13	3 12-Jun-13		0%	203
1A-15-1240	Final Rail Alignment - Check and Approve	10-Jun-13	3 12-Jun-13		0%	203
1A-15-1250	Installation of MU Boxes and Loops	11-Jun-13	1 11-Jun-13		0%	203
1A-15-1260	150mm Concrete Supporting Layer	11-Jun-13	6 18-Jun-13		0%	203
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)						
1A-15-1270	110mm Roadbase	19-Jun-13	3 21-Jun-13		44%	448
1A-15-1280	55mm Basecourse	19-Jun-13	1 19-Jun-13		0%	447
1A-15-1290	35mm Wearing Course	21-Jun-13	1 21-Jun-13		0%	448
SURFACING (SETS TO REUSE? NO)						
1A-15-1300	220mm Sub-base	18-Jun-13	4 24-Jun-13		44%	447
1A-15-1310	25mm Bed	18-Jun-13	1 18-Jun-13		0%	447
1A-15-1320	60mm Binder Course	20-Jun-13	1 20-Jun-13		0%	447
1A-15-1330	35mm Surface Course - Main Carriageway and Boundary	21-Jun-13	1 21-Jun-13		0%	447
ROAD FINISHING						
1A-15-1350	Road Signs and Markings	21-Jun-13	5 27-Jun-13		30%	308
1A-15-1360	Landscaping	21-Jun-13	0 21-Jun-13		0%	207
1A-15-1340	Parapets, Guard rails	21-Jun-13	0 21-Jun-13		0%	207
1A-15-1370	Divert traffic onto Outbound	0 27-Jun-13	0 27-Jun-13		0%	203
INBOUND						
1A-15-1400	Remove existing footway	26-Jun-13	42 27-Aug-13		20%	206
TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE						
1A-15-1410	Remove existing footway	26-Jun-13	99 22-Aug-13		20%	209

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 Approved:

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
1A-15-1410	Plane out existing surfacing (incl. setts) over Trams Footprint (1st cut)	01-Jun-13	5	05-Jul-13	0%	2013
1A-15-1420	Carry out inspection and testing of Subgrade	08-Jun-13	1	08-Jul-13	0%	2013
1A-15-1430	Sawcut Separation - Tram Ducts Outer Edge	08-Jun-13	1	08-Jul-13	0%	2013
1A-15-1440	Break Out / Excavate to formation of Trams Footprint (2nd cut)	08-Jun-13	5	15-Jul-13	0%	2013
1A-15-1450	Capping layer (600mm)	10-Jun-13	5	15-Jul-13	0%	2013
1A-15-1450	Place Sub-base Type 1 (1' track)	10-Jun-13	5	15-Jul-13	0%	2013
1A-15-1470	Drainage and Outlets	11-Jul-13	2	12-Jul-13	0%	2013
1A-15-1480	Tram Ducts & Chambers	11-Jul-13	4	15-Jul-13	0%	2013
1A-15-1490	Excavate and Cast OLE Foundations (2 nos)	11-Jul-13	8	22-Jul-13	0%	2013
1A-15-1500	Lay SL Duct to OLE	19-Jul-13	2	22-Jul-13	0%	2013
1A-15-1510	Prepare and check suitability of Formation	19-Jul-13	2	22-Jul-13	0%	2013
1A-15-1520	Track Improvement Layer	20-Jul-13	7	31-Jul-13	0%	2013
1A-15-1530	Installation of MU Drains and Cable Ducting	23-Jul-13	4	26-Jul-13	0%	2013
1A-15-1540	kerfing	15-Aug-13	2	16-Aug-13	0%	2013
1A-15-1550	Floodgates Works	18-Aug-13	4	22-Aug-13	0%	2013
TRACK INSTALLATION						
1A-15-1560	Access Available for Track Laying	01-Aug-13	9	14-Aug-13	20%	2013
1A-20C-TR070-570	Set Up track (sleepers) -1 x 8.87m	01-Aug-13	4	07-Aug-13	0%	2013
1A-15-1580	Welding and grinding	06-Aug-13	9	08-Aug-13	0%	2013
1A-15-1590	Drainage / Rail Connections	06-Aug-13	9	08-Aug-13	0%	2013
1A-15-1600	Final Rail Alignment - Check and Approve	06-Aug-13	9	08-Aug-13	0%	2013
1A-15-1610	Installation of MU Bolts and Loops	07-Aug-13	1	07-Aug-13	0%	2013
1A-15-1620	185mm Concrete Supporting Layer	07-Aug-13	6	14-Aug-13	0%	2013
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)						
1A-15-1630	110mm Roadbase	15-Aug-13	3	19-Aug-13	20%	2013
1A-15-1640	55mm Basecourse	15-Aug-13	1	15-Aug-13	0%	2013
1A-15-1650	35mm Wearing Course	16-Aug-13	1	16-Aug-13	0%	2013
SURFACING						
1A-15-1660	220mm Sub-base	15-Aug-13	1	15-Aug-13	0%	2013
1A-15-1670	255mm Base	15-Aug-13	1	15-Aug-13	0%	2013
1A-15-1680	60mm Binder Course	16-Aug-13	1	16-Aug-13	0%	2013
1A-15-1690	35mm Surface Course - Main Carriageway and Boundary	20-Aug-13	1	20-Aug-13	0%	2013
ROAD FINISHING						
1A-15-1710	Installation of traffic light control - Junction 13	18-Aug-13	5	23-Aug-13	0%	2013
1A-15-1700	Perimeters, Guard rails	16-Aug-13	1	16-Aug-13	0%	2013
1A-15-1740	Landscaping	20-Aug-13	0	20-Aug-13	0%	2013
1A-15-1720	Grind Rail Joint and Sealing Compound	21-Aug-13	9	23-Aug-13	0%	2013
1A-15-1730	Road Signs and Markings	26-Aug-13	1	26-Aug-13	0%	2013
1A-15-1750	Remove temporary traffic management	27-Aug-13	1	27-Aug-13	0%	2013
1A-15-1760	TRACKROAD WORKS COMPLETE (CH - 2012-2103)	27-Aug-13	0	27-Aug-13	0%	2013
COMMISSIONING AND TESTING						
1A-15-TEST-100	Handover / Acceptance of Roadworks and Trackworks	26-Aug-13	5	03-Sep-13	0%	2013
1A-15-TEST-110	Start remaining ESM works along track	04-Sep-13	0		0%	2013
TTM PHASE 1(5) (CH - 2103-2145)						
1A-15-15-1100	TTM PHASE 1(5) - Road closure (Ch. - 2103-2145)	04-Sep-13	0		0%	2013

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Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
1A-TM-15-1010	TM PHASE (15) COMPLETE	04-Sep-13	08-Sep-13	0%	203	2013
TEMPORARY AND PRELIMINARY WORKS						
1A-15-1000	Establish temporary traffic management	04-Sep-13	08-Sep-13	0%	203	2013
1A-15-1010	Site clearance	05-Sep-13	06-Sep-13	0%	203	2013
1A-15-1020	Investigate services / outfall positions / inlets/outlet positions / levels	06-Sep-13	06-Sep-13	0%	203	2013
1A-15-1030	COMMENCE TRACK/ROAD WORKS (Ch - 2103-2145)	06-Sep-13	0	0%	203	2013
OUTBOUND						
TRACK IMPROVEMENT+CARRIAGEWAY/FOOTWAY SUBGRADE						
1A-15-1040	Remove existing footway	06-Sep-13	11-Sep-13	0%	203	2013
1A-15-1050	Plane out existing surfacing over Trams Footprint (1st cut)	12-Sep-13	13-Sep-13	0%	203	2013
1A-15-1060	Carry out inspection and testing of Subgrade	12-Sep-13	13-Sep-13	0%	203	2013
1A-15-1070	Sawcut Separation - Tram Ducts Outer Edge	13-Sep-13	13-Sep-13	0%	203	2013
1A-15-1080	Break out / Excavate to formation of Trams Footprint (2nd cut)	16-Sep-13	18-Sep-13	0%	203	2013
1A-15-1100	Capping layer (600mm)	17-Sep-13	19-Sep-13	0%	217	2013
1A-15-1090	Place Sub-base Type 1 (Track)	17-Sep-13	19-Sep-13	0%	217	2013
1A-15-1120	Tram Ducts & Chambers	19-Sep-13	21-Sep-13	0%	207	2013
1A-15-1110	Drainage and Outlets	19-Sep-13	19-Sep-13	0%	203	2013
1A-15-1150	Prepare and check suitability of Formation	19-Sep-13	19-Sep-13	0%	203	2013
1A-15-1130	Excavate and cast OLE Foundations (0 nos)	20-Sep-13	20-Sep-13	0%	207	2013
1A-15-1140	Lay SL Duct to OLE	20-Sep-13	20-Sep-13	0%	207	2013
1A-15-1160	Track Improvement Layer	26-Sep-13	4-Sep-14	0%	203	2013
1A-15-1170	Installation of MJU Drains and Cables Ducting	26-Sep-13	2-Sep-14	0%	203	2013
1A-15-1180	Keelbing	09-Oct-13	09-Oct-13	0%	203	2013
1A-15-1190	Floodpath Works	10-Oct-13	14-Oct-13	0%	203	2013
TRACK INSTALLATION						
1A-15-1200	Access Available for Track Laying	26-Sep-13	0	0%	203	2013
1A-220-TRC-03-1210	Set Up track (steepenshall) - 1 x 18m + 6m	26-Sep-13	0	0%	203	2013
1A-15-1220	Welding and grinding	30-Sep-13	30-Sep-13	0%	206	2013
1A-15-1230	Drainage / Rail Connections	30-Sep-13	30-Sep-13	0%	206	2013
1A-15-1240	Final Rail Alignment - Check and Approve	30-Sep-13	30-Sep-13	0%	206	2013
1A-15-1250	Installation of MJU Boxes and Loops	01-Oct-13	01-Oct-13	0%	209	2013
1A-15-1260	185mm Concrete Supporting Layer	04-Oct-13	08-Oct-13	0%	203	2013
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)						
1A-15-1270	110mm Roadbase	08-Oct-13	14-Oct-13	0%	369	2013
1A-15-1280	55mm Basecourse	10-Oct-13	10-Oct-13	0%	369	2013
1A-15-1290	35mm Wearing Course	11-Oct-13	11-Oct-13	0%	369	2013
SURFACING						
1A-15-1300	220mm Sub-base	08-Oct-13	14-Oct-13	0%	369	2013
1A-15-1310	225mm Base	08-Oct-13	08-Oct-13	0%	369	2013
1A-15-1320	60mm Binder Course	11-Oct-13	11-Oct-13	0%	369	2013
1A-15-1330	35mm Surface Course - Main Carriageway and Boundary	14-Oct-13	14-Oct-13	0%	369	2013
ROAD FINISHING						
1A-15-1340	Periplets, Guard rails	10-Oct-13	21-Oct-13	0%	203	2013
1A-15-1350	Road Signs and Markings	14-Oct-13	14-Oct-13	0%	203	2013
1A-15-1360	Landscaping	14-Oct-13	0	0%	204	2013

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Activity ID	Activity Name	Start	Complete Duration	Actual % Complete	Year
1A-15-1370	Direct traffic onto Outbound	0	14-Oct-13	0%	2008
REBOUND					
15-Oct-13	35	03-Dec-13		208	
TRACK IMPROVEMENT+CARRIAGEWAY/FOOTWAY SUBGRADE					
1A-15-1400	Remove existing footway	15-Oct-13	34	23-Nov-13	204
1A-15-1410	Plane out existing surfacing over Trams Footprint (1st cut)	15-Oct-13	3	17-Oct-13	0%
1A-15-1420	Carry out inspection and testing of Subgrade	18-Oct-13	1	18-Oct-13	0%
1A-15-1430	Sawcut Separation - Tram Ducts Outer Edge	21-Oct-13	1	21-Oct-13	0%
1A-15-1440	Break out Excavate to formation of Tram Footprint (2nd cut)	22-Oct-13	5	28-Oct-13	0%
1A-15-1450	Place Sub-base Type 1 (Tread)	23-Oct-13	5	29-Oct-13	0%
1A-15-1470	Drainage and Outlets	24-Oct-13	1	24-Oct-13	0%
1A-15-1480	Tram Ducts & Chambers	24-Oct-13	2	25-Oct-13	0%
1A-15-1490	Excavate and Cast OLE Foundations (2 nos)	24-Oct-13	9	05-Nov-13	0%
1A-15-1500	Lay SL Duct to OLE	04-Nov-13	2	05-Nov-13	0%
1A-15-1510	Prepare and check suitability of Formation	04-Nov-13	2	05-Nov-13	0%
1A-15-1520	Track Improvement Layer	06-Nov-13	4	11-Nov-13	0%
1A-15-1530	Installation of MU Drains and Cables Ducting	06-Nov-13	2	07-Nov-13	0%
1A-15-1540	Kerbing	20-Nov-13	2	21-Nov-13	0%
1A-15-1550	Footpath Works	22-Nov-13	6	29-Nov-13	0%
TRACK INSTALLATION					
1A-15-1560	Access Available for Track Laying	12-Nov-13	0		208
1A-20D-TR(C)-70-1570	Set up track (sleepers/rails) - 1 x 10m	12-Nov-13	3	14-Nov-13	0%
1A-15-1580	Welding and grinding	14-Nov-13	1	14-Nov-13	0%
1A-15-1590	Drainage / Rail Connections	14-Nov-13	1	14-Nov-13	0%
1A-15-1600	Final Rail Alignment - Check and Approve	14-Nov-13	1	14-Nov-13	0%
1A-15-1610	Installation of MU Boxes and Loops	15-Nov-13	1	15-Nov-13	0%
1A-15-1620	185mm Concrete Supporting Layer	15-Nov-13	3	16-Nov-13	0%
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS - IN/OUTBOUND)					
1A-15-1630	110mm Roadbase	21-Nov-13	3	25-Nov-13	204
1A-15-1640	55mm Basecourse	22-Nov-13	1	21-Nov-13	0%
1A-15-1650	35mm Wearing Course	25-Nov-13	1	25-Nov-13	0%
SURFACING					
1A-15-1660	220mm Sub-base	21-Nov-13	4	26-Nov-13	205
1A-15-1670	225mm Base	21-Nov-13	1	21-Nov-13	0%
1A-15-1680	60mm Blinder Course	25-Nov-13	1	25-Nov-13	0%
1A-15-1690	35mm Surface Course - Main Carriageway and Boundary	26-Nov-13	1	26-Nov-13	0%
ROAD FINISHING					
1A-15-1710	Installation of traffic light control - Junction 13	22-Nov-13	7	02-Dec-13	208
1A-15-1700	Periscope, Guard rails	22-Nov-13	5	30-Nov-13	0%
1A-15-1740	Landscaping	26-Nov-13	0	26-Nov-13	0%
1A-15-1720	Grind Rail Joint and Sealing Compound	27-Nov-13	3	28-Nov-13	0%
1A-15-1730	Road Signs and Markings	29-Nov-13	1	29-Nov-13	0%
1A-15-1750	Remove temporary traffic management	02-Dec-13	1	02-Dec-13	0%
1A-15-1700	TRACKROAD WORKS COMPLETE (CH - 2103-2145)		0	02-Dec-13	0%
CENTRAL RESERVE AND BOUNDARY					
24-Nov-13	7	22-Nov-13		209	

Legend:
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Activity ID	Activity Name	Start	Complete Duration	Activity % Complete	Year Plotted
1A-15-1770	Rolling to Central Reserve (excl Tramstop)	26-Nov-13	1 20-Nov-13	0%	2013
1A-15-1780	Sub-base to Central Reserve	21-Nov-13	1 21-Nov-13	0%	2013
1A-15-1790	Central Reserve Finishes	22-Nov-13	1 22-Nov-13	0%	2013
COMMISSIONING AND TESTING					
1A-15-TEST-100	Handover / Acceptance of Roadworks and Trackworks	03-Dec-13	5 03-Dec-13	0%	2013
1A-15-TEST-110	Start remaining EAM works along track	10-Dec-13	0	0%	2013
BERNARD STREET TRAM STOP - 2					
1A-15-TS-1010	Ducting and Chambers	14-Oct-13	10 25-Oct-13	0%	2013
1A-15-TS-1020	COMMENCE BERNARD STREET TRAM STOP (Design available)	14-Oct-13	0	0%	2013
1A-15-TS-1030	Tramstop Platform	29-Oct-13	20 25-Nov-13	0%	2013
1A-15-TS-1020	BERNARD STREET TRAM STOP (2) - CIVIL WORKS COMPLETE	1A-15-TS-1020	0 25-Nov-13	0%	2013
1A-15-TS-1040	Deliver and Install Tramstop Shelter (Ita)	26-Nov-13	0	0%	2013
1A-15-TS-1050	Start remaining EAM works on Tramstop	26-Nov-13	0	0%	2013
Bernard Street (incl) to Foot of the Walk (excl)					
1B	Constn Street (incl) to Foot of the Walk (excl)	03-Feb-10 A	182 08-Oct-13	44.60%	2010-2013
MUDFA & UTILITIES					
1A-MUDFA-13	MUDFA & Utilities work completion (Ch: 2300 - 2400) - bc	30-Jul-10 A	108 18-Mar-11	50%	2010-2011
1A-MUDFA-12	MUDFA & Utilities work completion (Ch: 2300 - 2500) - bc	30-Jul-10 A	0 30-Jul-10 A	100%	2010
1A-MUDFA-11	MUDFA & Utilities work completion (Ch: 2400 - 2700) - bc	30-Jul-10 A	0 30-Jul-10 A	100%	2010
1A-MUDFA-14	MUDFA & Utilities work completion (Ch: 2100 - 2900) - see below 6381 (06.10.10)	18-Mar-11	0 18-Mar-11	0%	2011
1A-MUDFA-10-1-2-3	MUDFA & Utilities work completion (Ch: 110,000 - 110,100) - bc	18-Mar-11	0 18-Mar-11	0%	2011
1A-2A-CHGE-300	Agreement of Change (BDDU/FC) - Trackwork	18-Mar-11	0 18-Mar-11	0%	2011
1A-2A-CHGE-210	Agreement of Change (BDDU/FC) - Roadwork	18-Mar-11	0 18-Mar-11	0%	2011
1A-2A-CHGE-220	Agreement of Change (BDDU/FC) - Foot of the Walk/TS	18-Mar-11	0 18-Mar-11	0%	2011
Design					
12060	Issue Construction Drawings (Road & Track Works)	0 02-Feb-09 A	0 16-Feb-09 A	100%	2009
12100	Issue Construction Drawings (Bernard Street Tram Stop)	0 16-Feb-09 A	0 16-Feb-09 A	100%	2009
12120	Issue Construction Drawings (Foot of the Walk Tram Stop)	0 16-Feb-09 A	0 16-Feb-09 A	100%	2009
1A-1-DESIG-TRMS-130	IFC Drawings - Final TS Drawings and stop equipment - Foot of the Walk Tram Stop	0 01-Mar-10 A	0 01-Mar-10 A	100%	2010
1A-1-DESIG-TRMS-110	IFC Drawings - Final TS Drawings and stop equipment - Bernard Street Tram Stop	0 01-Mar-10 A	0 01-Mar-10 A	100%	2010
1A-1-DESIG-ROAD-110	Re-Issue Construction Drawings Roadworks (Bernard Street to Foot of the Walk)	0 18-Mar-11	0 18-Mar-11	0%	2011
TIM PHASE (14) (Ch - 2145-2298)					
1A-TTM-14-1020	TTM PHASE (14) - Road closed (Ch - 2145-2298)	15-Apr-11	0	0%	2011
1A-TTM-14-1010	TTM PHASE (14) COMPLETE	18-Mar-11	0 18-Mar-11	0%	2011
4th Charge Order					
1A-TTM-14-1020	Assumed Receipt of the Charge Order BDDU-IFC	18-Mar-11	0	0%	2011
TEMPORARY AND PRELIMINARY WORKS					
1A-14-1020	Establish temporary traffic management	15-Apr-11	1 15-Apr-11	0%	2011
1A-14-1010	Site clearance	18-Apr-11	1 18-Apr-11	0%	2011
1A-14-1020	Investigate services / utility positions / finalise utility positions / levels	15-Apr-11	1 15-Apr-11	0%	2011
1A-14-1030	COMMENTE TRACK/ROAD WORKS (Ch - 2145-2298)	20-Apr-11	0	0%	2011
OUTBOUND					
20-Apr-11	20-Apr-11	58 13-Jul-11	0	0%	2011
TRACK IMPROVEMENT/CARRIAGEWAY/FOOTWAY SUBGRADE					
1A-14-1040	Remove existing footway	20-Apr-11	3 25-Apr-11	0%	2011
1A-14-1050	Place out existing surfacing over Trams Footprint (1st opt)	20-Apr-11	2 27-Apr-11	0%	2011

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Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year
1A-14-1450	Place Sub-base Type 1 (Track)	21-Jun-11	6	29-Jul-11	0%	2011
1A-14-1470	Drainage and Outfalls	22-Jul-11	3	27-Jul-11	0%	2011
1A-14-1480	Trim Cuts & Chambers	22-Jul-11	6	02-Aug-11	0%	2011
1A-14-1490	Excavate and Cast CLE Foundations (0 Road)	22-Jul-11	12	03-Aug-11	0%	2011
1A-14-1500	Lay SL Duct to OLE	02-Aug-11	6	08-Aug-11	0%	2011
1A-14-1510	Prepare and check suitability of Formation	08-Aug-11	2	10-Aug-11	0%	2011
1A-14-1520	Track Improvement Layer	10-Aug-11	14	30-Aug-11	0%	2011
1A-14-1530	Installation of MW Drains and Cable Ducting	10-Aug-11	5	17-Aug-11	0%	2011
1A-14-1540	Reliefing	15-Dec-11	2	18-Dec-11	0%	2011
1A-14-1550	Footpath Works	19-Dec-11	6	01-Jan-12	0%	2011
TRACK INSTALLATION						
1A-14-1580	Access Available for Track Laying	30-Aug-11	77	15-Dec-11	35%	2011
1A-21A7C0-15-1670	Set Up track (steep grade) - 1 x 178m	30-Aug-11	0		0%	2011
1A-14-1590	Welding and grinding	28-Nov-11	5	08-Dec-11	0%	2011
1A-14-1600	Drainage / Rail Connections	01-Dec-11	4	07-Dec-11	0%	2011
1A-14-1610	Installation of MW Boxes and Loops	02-Dec-11	1	05-Dec-11	0%	2011
1A-14-1620	Final Rail Alignment - Check and Approve	05-Dec-11	1	07-Dec-11	0%	2011
1A-14-1630	185mm Concrete Supporting Layer	07-Dec-11	6	15-Dec-11	0%	2011
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS - INOUTBOUND)						
1A-14-1640	110mm Roadbase	16-Dec-11	3	21-Dec-11	35%	2011
1A-14-1650	50mm Basecourse	16-Dec-11	1	18-Dec-11	0%	2011
1A-14-1660	35mm Wearing Course	16-Dec-11	1	20-Dec-11	0%	2011
1A-14-1670	20mm Sub-base	16-Dec-11	1	18-Dec-11	0%	2011
1A-14-1680	60mm Binder Course	16-Dec-11	1	20-Dec-11	0%	2011
1A-14-1690	35mm Surface Course - Main Carriageway and Boundary	21-Dec-11	1	22-Dec-11	0%	2011
ROAD FINISHING						
1A-14-1710	Installation of traffic light control - Junction 13 (pedestrian crossings)	16-Dec-11	3	22-Dec-11	0%	2011
1A-14-1700	Parapets, Guard rails	18-Dec-11	1	20-Dec-11	0%	2011
1A-14-1720	Landscaping	20-Dec-11	0	20-Dec-11	0%	2011
1A-14-1730	Road Signs and Markings	08-Jan-12	1	10-Jan-12	0%	2012
1A-14-1750	Remove temporary traffic management	10-Jan-12	1	11-Jan-12	0%	2012
1A-14-1760	TRACKROAD WORKS COMPLETE (CH - 2145-2266)	10-Jan-12	0	11-Jan-12	0%	2012
CENTRAL RESERVE AND BOUNDARY						
1A-14-1770	Kerbing to Central Reserve (excl Tramstop)	15-Dec-11	1	16-Dec-11	0%	2011
1A-14-1780	Sub-base to Central Reserve	15-Dec-11	1	19-Dec-11	0%	2011
1A-14-1790	Central Reserve Finishes	19-Dec-11	1	20-Dec-11	0%	2011
COMMISSIONING AND TESTING						
1A-14-TEST-100	Handover / Acceptance of Roadworks and Trackworks	11-Jan-12	5	18-Jan-12	0%	2012
1A-14-TEST-110	Start remaining BSM works along track	19-Jan-12	0		0%	2012
BERNARD STREET TRAM STOP - 1						
1A-14-TS-1010	Ducting and Chambers	04-Jul-11	-40	30-Sep-11	37%	2011
1A-14-TS-1000	COMMENCE BERNARD STREET TRAM STOP (Design available)	04-Jul-11	20	02-Aug-11	0%	2011
1A-14-TS-1000	COMMENCE BERNARD STREET TRAM STOP (Design available)	04-Jul-11	0		0%	2011

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Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year
1A-14-TS-1020	Tramstop Platform	03-Aug-11	36	21-Sep-11	0%	2011
1A-21-TRMS-20(3)	Order REC Supply	10-Aug-11	0	0%	757	2011
1A-21-TRMS-20(3)	Access for visual inspection for EAM Tram Stop installation (01A Constitution Street)	05-Sep-11	0	0%	776	2011
1A-14-TS-1020	BERNARD STREET TRAM STOP (1) - CIVIL WORKS COMPLETE	0	21-Sep-11	0%	247	2011
1A-14-TS-1040	Start remaining EAM works on Tramstop	21-Sep-11	0	0%	727	2011
1A-21-TRMS-20(3)	Deliver and install shaver	21-Sep-11	10	05-Oct-11	0%	247
1A-21-TRMS-21(3)	Access for EAM Tram Stop installation (01A Constitution Street)	05-Oct-11	0	0%	370	
1A-21-TRMS-245	Deliver and install outside	08-Nov-12	10	22-Nov-12	0%	73
1A-21-TRMS-50(3)	Install LV Power Supply and LV Power Equipment	22-Nov-12	25	08-Jan-13	0%	376
1A-21-TRMS-70(3)	Install Telecom Equipment	09-Jan-13	20	06-Feb-13	0%	389
1A-21-TRMS-80(3)	Install Station Control Equipment + AFC Equipment	09-Jan-13	25	13-Feb-13	0%	376
1A-21-TRMS-80(3)	Site Acceptance Test Tramstop	13-Feb-13	5	20-Feb-13	0%	376
TTM PHASE (19) (CH - 2296-2367)		15-Jun-12	87	10-Oct-12	536	
1A-TM-13-1000	TTM PHASE (13) - Road closed (Ch - 2296-2367)	15-Jun-12	0	0%	253	
1A-TM-13-1010	TTM PHASE (13) COMPLETE	0	08-Oct-12	0%	253	
TEMPORARY AND PRELIMINARY WORKS		15-Jun-12	2	20-Jun-12	256	
1A-13-1000	Establish temporary traffic management	15-Jun-12	1	15-Jun-12	0%	256
1A-13-1010	Site clearance	18-Jun-12	1	18-Jun-12	0%	253
1A-13-1020	Investigate services / outfall positions / inlets/outlet positions / levels	18-Jun-12	1	18-Jun-12	0%	253
1A-13-1030	COMMENCE TRACK/ROAD WORKS (Ch - 2296-2367)	20-Jun-12	0	0%	253	
OUTBOUND		20-Jun-12	37	08-Aug-12	579	
TRACK IMPROVEMENT/CARRIAGEWAY/FOOTWAY SUBGRADE		20-Jun-12	25	08-Aug-12	253	
1A-13-1040	Remove existing footway	20-Jun-12	2	21-Jun-12	0%	253
1A-13-1050	Plane out existing surfacing over Trams Footprint (1st cut)	22-Jun-12	1	22-Jun-12	0%	253
1A-13-1060	Carry out inspection and testing of Subgrade	25-Jun-12	1	25-Jun-12	0%	253
1A-13-1070	Sawcut Separation - Trams Ducts Outer Edge	25-Jun-12	1	25-Jun-12	0%	253
1A-13-1080	Break cut / Excavate to formation of Trams Footprint (2nd cut)	26-Jun-12	3	28-Jun-12	0%	253
1A-13-1100	Capping layer (600mm)	27-Jun-12	8	29-Jun-12	0%	273
1A-13-1090	Place Sub-base Type 1 (Track)	27-Jun-12	3	29-Jun-12	0%	274
1A-13-1120	Tram Ducts & Chambers	28-Jun-12	3	02-Jul-12	0%	254
1A-13-1110	Drainage and Gullies	28-Jun-12	3	03-Jul-12	0%	253
1A-13-1130	Prepare and check suitability of Formation	02-Jul-12	2	03-Jul-12	0%	253
1A-13-1140	Excavate and Cast OLE Foundations (0 nos)	03-Jul-12	0	03-Jul-12	0%	254
1A-13-1160	Lay SL Duct to OLE	03-Jul-12	7	10-Jul-12	0%	253
1A-13-1170	Track Improvement Layer	04-Jul-12	3	05-Jul-12	0%	257
1A-13-1180	Installation of MW Drains and Cable Ducting	27-Jul-12	1	27-Jul-12	0%	253
1A-13-1190	Kerbing	30-Jul-12	7	08-Aug-12	0%	253
TRACK INSTALLATION		13-Jul-12	107	26-Jul-12	253	
1A-13-1200	Access Available for Track Laying	13-Jul-12	0	0%	253	
1A-21B-TRCV-06-1210	Set up track (steepenside) - 1 x 63m	13-Jul-12	4	18-Jul-12	0%	253
1A-13-1220	Working and grinding	17-Jul-12	2	18-Jul-12	0%	253
1A-13-1230	Drainage / Rail Connectors	17-Jul-12	2	18-Jul-12	0%	254
1A-13-1240	Final Rail Alignment - Check and Approve	18-Jul-12	1	18-Jul-12	0%	253
1A-13-1250	Installation of MW Boxes and Loops	18-Jul-12	1	18-Jul-12	0%	254

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Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year	Plan
1A.13.1200	150mm Concrete Supporting Layer	15-Jul-12	6	26-Jul-12	0%	253	
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)							
1A.13.1270	110mm Roadbase	27-Jul-12	3	31-Jul-12	0%	584	
1A.13.1270	110mm Roadbase	27-Jul-12	1	27-Jul-12	0%	583	
1A.13.1280	50mm Basecourse	30-Jul-12	1	30-Jul-12	0%	584	
1A.13.1290	35mm Wearing Course	31-Jul-12	1	31-Jul-12	0%	584	
SURFACING							
1A.13.1300	220mm Sub-base	27-Jul-12	4	01-Aug-12	0%	585	
1A.13.1310	225mm Base	27-Jul-12	1	27-Jul-12	0%	583	
1A.13.1320	60mm Binder Course	31-Jul-12	1	31-Jul-12	0%	583	
1A.13.1330	35mm Surface Course - Main Carriageway and Boundary	01-Aug-12	1	01-Aug-12	0%	583	
ROAD FINISHING							
1A.13.1340	Parapets, Guard rails	30-Jul-12	7	08-Aug-12	0%	253	
1A.13.1350	Road Signs and Markings	30-Jul-12	2	31-Jul-12	0%	257	
1A.13.1360	Landscaping	01-Aug-12	1	01-Aug-12	0%	257	
1A.13.1370	Divert traffic onto Outbound	01-Aug-12	0	01-Aug-12	0%	256	
INBOUND							
TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE							
1A.13.1400	Remove existing footway	08-Aug-12	2	10-Aug-12	0%	253	
1A.13.1410	Plane out existing surfacing over Trams Footprint (1st cut)	12-Aug-12	1	13-Aug-12	0%	253	
1A.13.1420	Carry out inspection and testing of Subgrade	14-Aug-12	1	14-Aug-12	0%	253	
1A.13.1430	Sawcut Separation - Tram Ducts Outer Edge	14-Aug-12	1	14-Aug-12	0%	253	
1A.13.1440	Break Out / Excavate to formation of Train Footprint (2nd cut)	15-Aug-12	3	17-Aug-12	0%	253	
1A.13.1450	Capping layer (600mm)	16-Aug-12	3	20-Aug-12	0%	274	
1A.13.1450	Place Sub-base Type 1 (Track)	16-Aug-12	3	20-Aug-12	0%	274	
1A.13.1470	Drainage and Outlets	17-Aug-12	3	21-Aug-12	0%	253	
1A.13.1480	Tram Ducts & Chambers	17-Aug-12	3	21-Aug-12	0%	253	
1A.13.1490	Excavate and Cast CLE Foundations (1 no)	17-Aug-12	5	23-Aug-12	0%	253	
1A.13.1500	Lay SL Duct to OLE	21-Aug-12	3	23-Aug-12	0%	260	
1A.13.1510	Prepare and check suitability of Formation	22-Aug-12	2	23-Aug-12	0%	253	
1A.13.1520	Track Improvement Layer	24-Aug-12	7	03-Sep-12	0%	253	
1A.13.1530	Installation of IMU Drains and Cable Ducting	24-Aug-12	3	28-Aug-12	0%	267	
1A.13.1540	Kerbing	16-Sep-12	2	18-Sep-12	0%	253	
1A.13.1550	Footpath Works	20-Sep-12	8	01-Oct-12	0%	253	
TRACK INSTALLATION							
1A.13.1560	Access Available for Track Laying	04-Sep-12	10	17-Sep-12	0%	253	
1A.13.1570	Set Up track (steepside) - 1x 5.2m	04-Sep-12	4	07-Sep-12	0%	253	
1A.13.1580	Welding and grouting	06-Sep-12	2	07-Sep-12	0%	253	
1A.13.1590	Damage / Rail Connections	06-Sep-12	2	07-Sep-12	0%	254	
1A.13.1600	Final Rail Alignment - Check and Approve	07-Sep-12	1	07-Sep-12	0%	253	
1A.13.1610	Installation of IMU Boxes and Loops	07-Sep-12	1	07-Sep-12	0%	253	
1A.13.1620	150mm Concrete Supporting Layer	10-Sep-12	6	17-Sep-12	0%	253	
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS - INBOUND)							
1A.13.1630	110mm Roadbase	18-Sep-12	1	18-Sep-12	0%	256	
1A.13.1640	50mm Basecourse	18-Sep-12	1	18-Sep-12	0%	256	
1A.13.1650	35mm Wearing Course	20-Sep-12	1	20-Sep-12	0%	256	

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Legend:
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Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year
SURFACING						
1A-13-1650	220mm Sub-base	18-Sep-12	4	21-Sep-12	0%	255
1A-13-1670	225mm Base	18-Sep-12	1	18-Sep-12	0%	255
1A-13-1680	60mm Binder Course	18-Sep-12	1	18-Sep-12	0%	255
1A-13-1690	35mm Surface Course - Main Camberway and Boundary	20-Sep-12	1	20-Sep-12	0%	255
1A-13-1710	Installation of traffic light control - Junction 14	21-Sep-12	1	21-Sep-12	0%	255
1A-13-1700	Parapets, Guard rails	26-Sep-12	8	01-Oct-12	0%	255
1A-13-1720	Grind Rail Joint and Sealing Compound	26-Sep-12	7	28-Sep-12	0%	253
1A-13-1740	Landscaping	24-Sep-12	3	24-Sep-12	0%	255
1A-13-1730	Road Signs and Markings	25-Sep-12	0	25-Sep-12	0%	257
1A-13-1750	Remove temporary traffic management	26-Sep-12	1	26-Sep-12	0%	255
1A-13-1760	TRACKROAD WORKS COMPLETE (CH - 2366-2367)	01-Oct-12	1	01-Oct-12	0%	253
COMMISSIONING AND TESTING						
1A-13-TEST-100	Handover / Acceptance of Roadways and Trackworks	02-Oct-12	5	08-Oct-12	0%	253
1A-13-TEST-110	Start remaining EAM works along track	09-Oct-12	0		0%	536
TTM PHASE (2) (CH - 2367-2442 Inbound/2420 Outbound)						
1A-TTM-12-1000	TTM PHASE (2) - Road closed (Ch - 2367-2442)	24-Jan-12	30	15-Jun-12	0%	253
1A-TTM-12-1010	TTM PHASE (2) COMPLETE	24-Jan-12	0	14-Jun-12	0%	253
TEMPORARY AND PRELIMINARY WORKS						
1A-12-1000	Establish temporary traffic management	14-Jun-12	3	31-Jun-12	0%	253
1A-12-1010	Site clearance	24-Jun-12	1	25-Jun-12	0%	253
1A-12-1020	Investigate services / utility positions / inlet-outlet positions / levels	25-Jun-12	1	26-Jun-12	0%	253
1A-12-1030	COMMENCE TRACKROAD WORKS (Ch - 2367-2442)	26-Jun-12	1	27-Jun-12	0%	253
OUTBOUND						
1A-12-1040	Remove existing footway	27-Jun-12	39	21-Mar-12	0%	253
1A-12-1050	Plans out existing surfacing over Train Footprint (1st cut)	27-Jun-12	2	31-Jun-12	0%	253
1A-12-1060	Carry out inspection and testing of Subgrade	31-Jun-12	1	01-Feb-12	0%	253
1A-12-1070	Shovel Separation - Train Cuts Outer Edge	01-Feb-12	1	02-Feb-12	0%	253
1A-12-1080	Break Out / Excavate to formation of Train Footprint (2nd cut)	01-Feb-12	2	06-Feb-12	0%	253
1A-12-1100	Capping layer (60mm)	02-Feb-12	2	07-Feb-12	0%	273
1A-12-1090	Place Sub-base Type 1 (Track)	03-Feb-12	2	07-Feb-12	0%	273
1A-12-1110	Drainage and Durbles	06-Feb-12	1	07-Feb-12	0%	257
1A-12-1120	Train Ducts & Chambers	06-Feb-12	2	08-Feb-12	0%	256
1A-12-1130	Excavate and Cast OLE Foundations (1 nos)	06-Feb-12	5	13-Feb-12	0%	253
1A-12-1140	Lay SL Duct to OLE	06-Feb-12	3	13-Feb-12	0%	260
1A-12-1150	Prepare and check suitability of Formation	09-Feb-12	2	13-Feb-12	0%	253
1A-12-1160	Track Improvement Layer	13-Feb-12	7	22-Feb-12	0%	253
1A-12-1170	Installation of MJ Drains and Cable Ducting	13-Feb-12	3	16-Feb-12	0%	257
1A-12-1180	Keelings	13-Mar-12	1	13-Mar-12	0%	253
1A-12-1190	Footpath Works	14-Mar-12	6	21-Mar-12	0%	253
TRACK INSTALLATION						
1A-12-1200	Access Available for Track Laying	22-Feb-12	19	12-Mar-12	0%	253
1A-12-1210	Set up track (steepenshell) - 1 x 90m	22-Feb-12	0		0%	253
1A-12-1220	Set up track (steepenshell) - 1 x 100m	01-Mar-12	4	08-Mar-12	0%	253

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Summary

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year	2009	2010	2011	2012	2013	2014	2015	2016	2017
1A-12-1220	Welding and grinding	05-Mar-12	2	06-Mar-12	0%	253									
1A-12-1230	Drainage / Rail Connections	05-Mar-12	2	06-Mar-12	0%	254									
1A-12-1240	180mm Concrete Supporting Layer	05-Mar-12	6	12-Mar-12	0%	253									
1A-12-1250	Final Rail Alignment - Check and Approve	05-Mar-12	1	06-Mar-12	0%	253									
1A-12-1260	Installation of IMU Boxes and Loops	05-Mar-12	1	06-Mar-12	0%	257									
1A-12-1270	TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)	13-Mar-12	3	15-Mar-12	66%	665									
1A-12-1270	110mm Roadbase	13-Mar-12	1	13-Mar-12	0%	664									
1A-12-1280	50mm Basecourse	14-Mar-12	1	14-Mar-12	0%	665									
1A-12-1290	35mm Wearing Course	15-Mar-12	1	15-Mar-12	0%	666									
1A-12-1300	220mm Sub-Base	13-Mar-12	8	22-Mar-12	66%	669									
1A-12-1310	225mm Base	13-Mar-12	1	13-Mar-12	0%	664									
1A-12-1320	60mm Binder Course	14-Mar-12	1	14-Mar-12	0%	664									
1A-12-1330	35mm Surface Course - Main Carriageway and Boundary	15-Mar-12	1	15-Mar-12	0%	664									
1A-12-1340	ROAD FINISHING	22-Mar-12	1	22-Mar-12	0%	666									
1A-12-1350	Road Signs and Markings	14-Mar-12	1	14-Mar-12	0%	258									
1A-12-1360	Landscape	14-Mar-12	0	14-Mar-12	0%	258									
1A-12-1370	Parapets, Guard rails	14-Mar-12	0	14-Mar-12	0%	258									
1A-12-1370	Direct traffic onto Outbound	14-Mar-12	0	21-Mar-12	0%	253									
1A-12-1370	INBOUND	20-Mar-12	5	07-Jun-12	25%	253									
1A-12-1400	TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE	22-Mar-12	49	31-May-12	2%	253									
1A-12-1410	Remove existing footway	22-Mar-12	2	23-Mar-12	0%	253									
1A-12-1420	Plane out existing surfacing over Trams Footprint (1st cut)	26-Mar-12	1	26-Mar-12	0%	253									
1A-12-1430	Carry out inspection and testing of Subgrade	27-Mar-12	1	27-Mar-12	0%	253									
1A-12-1440	Sawcut Separation - Tram Ducts Outer Edge	27-Mar-12	1	27-Mar-12	0%	253									
1A-12-1450	Break Out / Excavate to formation of Tram Footprint (2nd cut)	26-Mar-12	2	29-Mar-12	0%	253									
1A-12-1460	Capping layer (60mm)	26-Mar-12	2	30-Mar-12	0%	273									
1A-12-1470	Place Sub-base Type 1 (Track)	26-Mar-12	2	30-Mar-12	0%	273									
1A-12-1480	Drainage and Outlets	30-Mar-12	1	30-Mar-12	0%	255									
1A-12-1490	Tram Ducts & Chambers	30-Mar-12	3	03-Apr-12	0%	255									
1A-12-1500	Excavate and Cast OLE Foundations (1 nos)	30-Mar-12	5	05-Apr-12	0%	253									
1A-12-1510	Lay SL Duct to OLE	03-Apr-12	9	05-Apr-12	0%	260									
1A-12-1520	Prepare and check suitability of Formation	04-Apr-12	2	05-Apr-12	0%	253									
1A-12-1530	Track improvement Layer	06-Apr-12	7	17-Apr-12	0%	253									
1A-12-1540	Installation of IMU Drains and Cable Ducting	06-Apr-12	3	11-Apr-12	0%	265									
1A-12-1550	Keelbing	21-May-12	1	21-May-12	0%	253									
1A-12-1560	Fordrath Works	25-May-12	7	31-May-12	0%	253									
1A-12-1570	TRACK INSTALLATION	18-Apr-12	23	03-May-12	25%	253									
1A-12-1580	Access Available for Track Laying	18-Apr-12	0		0%	253									
1A-12-1590	Set up track (sleeperball) - 1 x 67m + mob	05-May-12	7	12-May-12	0%	253									
1A-12-1600	Welding and grinding	11-May-12	3	14-May-12	0%	253									
1A-12-1610	Drainage / Rail Connections	11-May-12	2	14-May-12	0%	254									
1A-12-1620	180mm Concrete Supporting Layer	11-May-12	6	18-May-12	0%	253									
1A-12-1630	Final Rail Alignment - Check and Approve	14-May-12	1	14-May-12	0%	253									
1A-12-1640	Installation of IMU Boxes and Loops	14-May-12	1	14-May-12	0%	257									

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Revision

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Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS - IN/OUTBOUND)						
1A-12-1630	110mm Roadbase	21-May-12	9	23-May-12	0%	2012
1A-12-1640	55mm Basecourse	21-May-12	1	21-May-12	0%	2012
1A-12-1650	35mm Wearing Course	22-May-12	1	23-May-12	0%	2012
SURFACING						
1A-12-1660	220mm Sub-base	21-May-12	9	01-Jun-12	25%	2012
1A-12-1670	225mm Base	21-May-12	1	21-May-12	0%	2012
1A-12-1680	60mm Binder Course	22-May-12	1	23-May-12	0%	2012
1A-12-1690	35mm Surface Course - Main Carriageway and Boundary	01-Jun-12	1	01-Jun-12	0%	2012
ROAD FINISHING						
1A-12-1740	Landscape	22-May-12	12	07-Jun-12	25%	2012
1A-12-1700	Parapet, Guard Rails	22-May-12	0	23-May-12	0%	2012
1A-12-1720	Grind Rail Joint and Sealing Compound	04-Jun-12	2	05-Jun-12	0%	2012
1A-12-1730	Road Signs and Markings	06-Jun-12	1	06-Jun-12	0%	2012
1A-12-1750	Remove temporary traffic management	07-Jun-12	1	07-Jun-12	0%	2012
1A-12-1760	TRACKROAD WORKS COMPLETE (Ch - 2867-2842)	07-Jun-12	0	07-Jun-12	0%	2012
COMMISSIONING AND TESTING						
1A-12-TEST-100	Handover Acceptance of Roadworks and Trackworks	08-Jun-12	5	14-Jun-12	0%	2012
1A-12-TEST-110	Start remaining EMV works along track	15-Jun-12	0		0%	2012
1A-12-TEST-120	Start remaining EMV works along track	15-Jun-12	0		0%	2012
TTM PHASE (11) (Ch - 2442 Inbound/2420 Outbound/2645)						
1A-11A-1-1000	TTM PHASE (11) - Road closed (Ch - 2420-2645)	15-Apr-11	206	24-Jun-12	60%	2011
1A-11A-1-1010	TTM PHASE (11) COMPLETE	15-Apr-11	0		0%	2011
Ch Change Order						
1A-11A-1-1020	Assumed Receipt of the Change Order BOD - IRC	15-Mar-11	0		0%	2011
TEMPORARY AND PRELIMINARY WORKS						
1A-11-1000	Establish temporary traffic management	15-Apr-11	3	30-Apr-11	0%	2011
1A-11-1010	Site clearance	16-Apr-11	1	18-Apr-11	0%	2011
1A-11-1020	Investigate services / utility positions / inlets/outlet positions / levels	16-Apr-11	1	18-Apr-11	0%	2011
1A-11-1030	COMMENCE TRACKROAD WORKS (Ch - 2420-2645)	20-Apr-11	0		0%	2011
OUTBOUND						
1A-11-1040	Remove existing footway	20-Apr-11	89	26-Aug-11	25%	2011
1A-11-1050	Place out existing subgrade over Trams Footprint (1st cut)	25-Apr-11	2	21-Apr-11	0%	2011
1A-11-1060	Carry out inspection and testing of Subgrade	27-Apr-11	1	27-Apr-11	0%	2011
1A-11-1070	Severed Separation - Trm Ducts Outer Edge	27-Apr-11	1	27-Apr-11	0%	2011
1A-11-1080	Break Out / Excavate to formation of Trm Footprint (2nd cut)	28-Apr-11	6	05-May-11	0%	2011
1A-11-1100	Capping layer (60mm)	28-Apr-11	6	08-May-11	0%	2011
1A-11-1090	Place Sub-base Type 1 (Truck)	28-Apr-11	6	09-May-11	0%	2011
1A-11-1120	Trm Ducts & Chambers	03-May-11	9	13-May-11	0%	2011
1A-11-1130	Excavate and Cast OLE Foundations (2 nos)	03-May-11	2	10-May-11	0%	2011
1A-11-1140	Lay SL Duct to OLE	12-May-11	5	18-May-11	0%	2011
1A-11-1150	Picture and check stability of Formation	16-May-11	3	18-May-11	0%	2011
1A-11-1160	Track Improvement Layer	18-May-11	21	18-Jun-11	0%	2011
1A-11-1170	Installation of MU Drains and Cable Ducting	18-May-11	7	26-May-11	0%	2011

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Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

Activity ID	Activity Name	Start	Complete Duration	Finish	Activity % Complete	Year Plan
1A-11-1180	Roading	15-Aug-11	3	17-Aug-11	0%	253
1A-11-1190	Footpath Works	16-Aug-11	9	26-Aug-11	0%	253
TRACK INSTALLATION						
1A-11-1200	Access Available for Track Laying	17-Jun-11	42	16-Aug-11	0%	259
1A-21D-TRC0-303-1210	Set Up track (sleepers/rails) - ~1 x 225m + mob	02-Aug-11	10	15-Aug-11	0%	253
1A-11-1220	Welding and grinding	04-Aug-11	7	12-Aug-11	0%	255
1A-11-1240	Drainage / Rail Connections	04-Aug-11	7	12-Aug-11	0%	261
1A-11-1250	185mm Concrete Supporting Layer	04-Aug-11	9	16-Aug-11	0%	253
1A-11-1260	Installation of MK Boxes and Loops	05-Aug-11	1	05-Aug-11	0%	266
1A-11-1240	Final Rail Alignment - Check and Approve	12-Aug-11	1	12-Aug-11	0%	259
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)						
1A-11-1270	110mm Roadbase	17-Aug-11	9	26-Aug-11	0%	253
1A-11-1280	50mm Basecourse	17-Aug-11	1	17-Aug-11	0%	258
1A-11-1290	35mm Wearing Course	26-Aug-11	1	26-Aug-11	0%	253
SURFACING						
1A-11-1300	20mm Sub-base	17-Aug-11	1	17-Aug-11	0%	258
1A-11-1310	25mm Base	18-Aug-11	1	18-Aug-11	0%	258
1A-11-1320	60mm Binder Course	18-Aug-11	1	18-Aug-11	0%	258
1A-11-1330	35mm Surface Course - Main Carriageway and Boundary	26-Aug-11	1	26-Aug-11	0%	253
ROAD FINISHING						
1A-11-1370	Landscaping	18-Aug-11	0	18-Aug-11	0%	265
1A-11-1340	Parallels, Guard rails	18-Aug-11	0	18-Aug-11	0%	265
1A-11-1350	Grind Rail Joint and Sealing Compound	30-Aug-11	3	01-Sep-11	0%	253
1A-11-1360	Road Signs and Markings	02-Sep-11	1	02-Sep-11	0%	253
1A-11-1380	Divert traffic onto Outbound	02-Sep-11	0	02-Sep-11	0%	253
INBOUND						
05-Sep-11		05-Sep-11	37	17-Jun-12	0%	256
TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE						
1A-11-1400	Remove existing footway	05-Sep-11	01	06-Jun-12	0%	253
1A-11-1410	Plane out existing surfacing over Trams Footprint (1st cut)	06-Sep-11	1	06-Sep-11	0%	253
1A-11-1420	Carry out inspection and testing of Subgrade	07-Sep-11	1	07-Sep-11	0%	253
1A-11-1430	Sawcut Separation - Train Ducts Outer Edge	07-Sep-11	1	07-Sep-11	0%	253
1A-11-1440	Break Out/Excavate to formation of Trams Footprint (2nd cut)	08-Sep-11	6	15-Sep-11	0%	253
1A-11-1450	Capping layer (600mm)	08-Sep-11	6	15-Sep-11	0%	249
1A-11-1470	Place Sub-base Type 1 (Track)	08-Sep-11	6	15-Sep-11	0%	249
1A-11-1480	Drainage and Details	12-Sep-11	2	13-Sep-11	0%	265
1A-11-1490	Train Ducts & Chambers	12-Sep-11	9	22-Sep-11	0%	261
1A-11-1500	Excavate and Cast OLE Foundations (0 nos)	12-Sep-11	17	04-Oct-11	0%	253
1A-11-1510	Lay SL Duct to OLE	26-Sep-11	5	04-Oct-11	0%	370
1A-11-1520	Prepare and check stability of Formation	30-Sep-11	3	04-Oct-11	0%	253
1A-11-1530	Track Improvement Layer	04-Oct-11	18	27-Oct-11	0%	253
1A-11-1540	Installation of MK Drains and Cable Ducting	04-Oct-11	8	13-Oct-11	0%	273
1A-11-1550	kerling	12-Dec-11	5	19-Dec-11	0%	253
1A-11-1560	Footpath Works	13-Dec-11	9	09-Jan-12	0%	253
TRACK INSTALLATION						
1A-11-1570	Access Available for Track Laying	26-Oct-11	32	22-Dec-11	0%	259
26-Oct-11		26-Oct-11	0		0%	253

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Actual Work Remaining Work Critical Remaining Work % Complete

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Summary

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
1A-21D-1036-10-1570	Set up track (superstructure) - 1x 15km	28-Nov-11	8 Oct-Dec-11		0%	2011
1A-11-1580	Welding and grinding	30-Nov-11	6 Oct-Dec-11		0%	2011
1A-11-1590	Drainage / Rail Connections	30-Nov-11	6 Oct-Dec-11		0%	2011
1A-11-1620	185mm Concrete Supporting Layer	30-Nov-11	6 Oct-Dec-11		0%	2011
1A-11-1610	Installation of IRL Boxes and Loops	01-Dec-11	1 Oct-Dec-11		0%	2011
1A-11-1600	Final Rail Alignment - Check and Approve	07-Dec-11	1 Oct-Dec-11		0%	2011
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS - IN/OUTBOUND)						
1A-11-1650	110mm Roadbase	12-Dec-11	3 15-Dec-11		26%	2011
1A-11-1640	55mm Basecourse	12-Dec-11	1 13-Dec-11		0%	2011
1A-11-1650	35mm Wearing Course	13-Dec-11	1 14-Dec-11		0%	2011
SURFACING						
1A-11-1660	200mm Sub-base	12-Dec-11	11 10-Jan-12		25%	2011
1A-11-1670	225mm Base	12-Dec-11	1 13-Dec-11		0%	2011
1A-11-1680	60mm Binder Course	13-Dec-11	1 14-Dec-11		0%	2011
1A-11-1690	35mm Surface Course - Main Carriageway and Boundary	14-Dec-11	1 15-Dec-11		0%	2011
ROAD FINISHING						
1A-11-1700	Landscape	19-Dec-11	11 17-Jan-12		25%	2011
1A-11-1710	Parapets, Guard rails	19-Dec-11	0 18-Dec-11		0%	2011
1A-11-1720	Grind Rail Joint and Sealing Compound	19-Dec-11	0 18-Dec-11		0%	2011
1A-11-1730	Road Signs and Markings	10-Jan-12	9 13-Jan-12		0%	2012
1A-11-1740	Remove temporary traffic management	18-Jan-12	1 17-Jan-12		0%	2012
1A-11-1750	TRACKROAD WORKS COMPLETE (Ch - 2410-2645)	18-Jan-12	0 17-Jan-12		0%	2012
COMMISSIONING AND TESTING						
1A-11-TEST-100	Handover / Acceptance of Roadworks and Trackworks	17-Jan-12	5 24-Jan-12		0%	2012
1A-11-TEST-110	Start remaining E&M works along track	24-Jan-12	0		0%	2012
TTM PHASE (10-3) (GREAT JUNCTION STOKALE SD) - TO BE INTEGRATED INTO FOOT OF THE - 11.03.13						
1A-TTM-10-3-1000	TTM PHASE (10-3) - Road closed (Ch - 110.026, 110.075)	11-Mar-13	50 04-Jun-13		37%	2013
1A-TTM-10-3-1010	TTM PHASE (10-3) COMPLETE	11-Mar-13	0		0%	2013
TEMPORARY AND PRELIMINARY WORKS						
1A-10-3-1000	Establish temporary traffic management	11-Mar-13	2 14-Mar-13		37%	2013
1A-10-3-1010	Site clearance	11-Mar-13	1 14-Mar-13		0%	2013
1A-10-3-1020	Investigate services / utility positions / in-line/clearer positions / levels	12-Mar-13	1 13-Mar-13		0%	2013
1A-10-3-1030	COMMENCE TRACKROAD WORKS (Ch - 110.026, 110.075)	13-Mar-13	1 13-Mar-13		0%	2013
OUTBOUND						
1A-10-3-1060	Remove existing footway	14-Mar-13	25 13-Apr-13		41%	2013
TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE						
1A-10-3-1040	Plane out existing surfacing over Trams Footprint (1st cut)	14-Mar-13	1 14-Mar-13		0%	2013
1A-10-3-1050	Carry out inspection and sealing of Subgrade	15-Mar-13	1 15-Mar-13		0%	2013
1A-10-3-1060	Sawcut Separation - Trams Ducts Outer Edge	16-Mar-13	1 16-Mar-13		0%	2013
1A-10-3-1070	Break out / Excavate to formation of Trams Footprint (2nd cut)	16-Mar-13	1 16-Mar-13		0%	2013
1A-10-3-1080	Apply layer (600mm)	20-Mar-13	3 21-Mar-13		0%	2013
1A-10-3-1090	Place Sub-base Type 1 (Track)	20-Mar-13	2 21-Mar-13		0%	2013
1A-10-3-1110	Drainage and Outlets	21-Mar-13	3 22-Mar-13		0%	2013
1A-10-3-1120	Tram Ducts & Chambers	21-Mar-13	4 26-Mar-13		0%	2013
1A-10-3-1130	Excavate and Cast OLE Foundations (1 nos)	21-Mar-13	4 26-Mar-13		0%	2013

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Legend:
█ Actual Work
█ Critical Remaining Work
█ Remaining Work
◆ Milestone
◆ % Complete
▬ Summary

Date: 11-Mar-11
 Revision: EITN Updated Programme - Progress to 18 Mar 11
 Checked: JAC
 Approved:

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Total Float
1A-10.3-1150	Prepare and check suitability of Formation.	22-Mar-13	3	26-Mar-13	0%	378
1A-10.3-1140	Lay SL Duct to OLE	25-Mar-13	2	26-Mar-13	0%	381
1A-10.3-1160	Track Improvement Layer	4	01-Apr-13	0%	376	
1A-10.3-1170	Installation of IMU Drains and Cable Ducting	25-Mar-13	3	28-Mar-13	0%	379
1A-10.3-1180	Kerbing	05-Apr-13	2	08-Apr-13	0%	378
1A-10.3-1150	Footpath Works	05-Apr-13	3	10-Apr-13	0%	375
TRACK INSTALLATION						
1A-10.3-1200	Access Available for Track Laying	02-Apr-13	6	08-Apr-13	37%	378
1A-20A-TRC(10,1210)	Set up track (sleepers) - 1 x 45m	02-Apr-13	0		0%	378
1A-10.3-1200	Welding and grinding	04-Apr-13	6	08-Apr-13	0%	378
1A-10.3-1250	Drainage / Rail Connections	04-Apr-13	2	05-Apr-13	0%	379
1A-10.3-1260	185mm Concrete Supporting Layer	04-Apr-13	3	08-Apr-13	0%	378
1A-10.3-1240	Final Rail Alignment - Check and Approve	05-Apr-13	1	05-Apr-13	0%	378
1A-10.3-1250	Installation of IMU Boxes and Loops	05-Apr-13	1	05-Apr-13	0%	375
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)						
1A-10.3-1270	110mm Roadbase	06-Apr-13	3	11-Apr-13	41%	413
1A-10.3-1280	55mm Basecourse	06-Apr-13	1	08-Apr-13	0%	412
1A-10.3-1290	35mm Wearing Course	11-Apr-13	1	11-Apr-13	0%	413
SURFACING						
1A-10.3-1300	20mm Sub-base	06-Apr-13	1	08-Apr-13	0%	412
1A-10.3-1310	225mm Base	10-Apr-13	1	10-Apr-13	0%	412
1A-10.3-1320	60mm Blinder Course	11-Apr-13	1	11-Apr-13	0%	412
1A-10.3-1330	35mm Surface Course - Main Camberway and Boundary	12-Apr-13	1	12-Apr-13	0%	412
ROAD FINISHING						
1A-10.3-1340	Paradeys, Guard rails	06-Apr-13	3	11-Apr-13	37%	376
1A-10.3-1350	Road Signs and Markings	08-Apr-13	2	10-Apr-13	0%	375
1A-10.3-1360	Landscapeing	11-Apr-13	0	11-Apr-13	0%	378
1A-10.3-1370	Divert traffic onto Outbound	11-Apr-13	0	11-Apr-13	0%	378
INBOUND						
1A-10.3-1400	Remove existing footway	12-Apr-13	25	24-May-13	37%	379
1A-10.3-1410	Plane out existing surfacing over Trame Footprint (1st cut)	12-Apr-13	1	12-Apr-13	0%	378
1A-10.3-1420	Carry out inspection and testing of Subgrade	15-Apr-13	1	15-Apr-13	0%	378
1A-10.3-1430	Sawcut Separation - Trame Ducts Outer Edge	16-Apr-13	1	16-Apr-13	0%	378
1A-10.3-1440	Break out / Excavate to formation of Trame Footprint (2nd cut)	17-Apr-13	6	21-Apr-13	0%	378
1A-10.3-1460	Capping layer (800mm)	18-Apr-13	6	25-Apr-13	0%	388
1A-10.3-1450	Place Sub-base Type 1 (Track)	18-Apr-13	6	25-Apr-13	0%	388
1A-10.3-1470	Damage and Outlets	18-Apr-13	3	23-Apr-13	0%	378
1A-10.3-1480	Tram Ducts & Chambers	19-Apr-13	4	24-Apr-13	0%	380
1A-10.3-1490	Excavate and Cast OLE Foundations (1 nos)	19-Apr-13	4	24-Apr-13	0%	380
1A-10.3-1500	Lay SL Duct to OLE	23-Apr-13	3	24-Apr-13	0%	383
1A-10.3-1510	Prepare and check suitability of Formation	24-Apr-13	3	26-Apr-13	0%	375
1A-10.3-1520	Track Improvement Layer	26-Apr-13	4	01-May-13	0%	375
1A-10.3-1530	Installation of IMU Drains and Cable Ducting	26-Apr-13	3	30-Apr-13	0%	384
1A-10.3-1540	Kerbing	10-May-13	1	10-May-13	0%	378

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Legend: █ Actual Work █ Critical Remaining Work █ Remaining Work █ % Complete █ Summary

Date: 11-Mar-11

Revision: ETN Updated Programme - Progress to 18 Mar 11

Checked: JAC

Approved:

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Ytd Plan
1A-10-3-1550	Footpath Works	12-May-13	5 17-May-13		0%	378
TRACK INSTALLATION						
1A-10-3-1550	Access Available for Track Laying	02-May-13	7 13-May-13		378	
1A-205-TRC(10,1570)	Set Up track (temporary) - 1.45m + mob	02-May-13	0		0%	378
1A-10-3-1580	Welding and grinding	02-May-13	7 13-May-13		0%	378
1A-10-3-1590	Drainage / Rail Connections	07-May-13	2 08-May-13		0%	378
1A-10-3-1600	150mm Concrete Supporting Layer	07-May-13	2 08-May-13		0%	378
1A-10-3-1610	Final Rail Alignment - Check and Approve	08-May-13	1 08-May-13		0%	378
TRACKWORK PAVEMENT (BEFORE AND OUTWITH RAILS - IN/OUTBOUND)						
1A-10-3-1620	110mm Roadbase	10-May-13	3 14-May-13		378	
1A-10-3-1640	50mm Barcourse	10-May-13	1 10-May-13		0%	381
1A-10-3-1650	35mm Wearing Course	13-May-13	1 13-May-13		0%	382
SURFACING						
1A-10-3-1660	200mm Sub-base	10-May-13	7 20-May-13		378	
1A-10-3-1670	225mm Base	10-May-13	1 10-May-13		0%	381
1A-10-3-1680	60mm Binder Course	13-May-13	1 13-May-13		0%	381
1A-10-3-1690	35mm Surface Course - Main Carrivageway and Boundary	14-May-13	1 14-May-13		0%	382
ROAD FINISHING						
1A-10-3-1710	Installation of traffic light control - Junction 15 (1)	10-May-13	10 24-May-13		378	
1A-10-3-1720	Parapets, Guard rails	13-May-13	7 21-May-13		0%	380
1A-10-3-1740	Landscape	13-May-13	1 13-May-13		0%	380
1A-10-3-1750	Grid Rail Joint and Sealing Compound	14-May-13	0 14-May-13		0%	386
1A-10-3-1760	Road Signs and Markings	21-May-13	2 23-May-13		0%	378
1A-10-3-1750	Remove temporary traffic management	23-May-13	1 23-May-13		0%	378
1A-10-3-1760	TRACKROAD WORKS COMPLETE (CH - 110.025-110.075)	24-May-13	1 24-May-13		0%	378
COMMISSIONING AND TESTING						
1A-10-3-TEST-100	Handover / Acceptance of Roadworks and Trackworks	24-May-13	5 03-Jun-13		0%	378
1A-10-3-TEST-110	Start remaining EDM works along track	04-Jun-13	0		0%	378
TTM PHASE (10-2) GREAT JUNCTION STODRUE ST. - TO BE INTEGRATED INTO FOOT OF THE						
1A-TTM-10-2-1000	TTM PHASE (10-2) - Road closed (Ch. - 110.035-110.060)	04-Feb-13	25 11-Mar-13		0%	458
1A-TTM-10-2-1010	TTM PHASE (10-2) COMPLETE	04-Feb-13	0 04-Feb-13		0%	378
TEMPORARY AND PRELIMINARY WORKS						
1A-10-2-1000	Establish temporary traffic management	04-Feb-13	3 03-Mar-13		378	
1A-10-2-1010	Site clearance	04-Feb-13	1 04-Feb-13		0%	378
1A-10-2-1020	Investigate services / utility positions / inlets/oulets positions / levels	05-Feb-13	1 05-Feb-13		0%	378
1A-10-2-1030	COMMENCE ROAD WORKS (Ch. - 110.035-110.060)	05-Feb-13	1 05-Feb-13		0%	378
INBOUND						
1A-10-2-1050	Remove existing footway	07-Feb-13	17 01-Mar-13		378	
1A-10-2-1060	Place out existing surfacing (1st cut)	07-Feb-13	1 07-Feb-13		0%	378
1A-10-2-1070	Carry out inspection and testing of Subgrade	08-Feb-13	1 08-Feb-13		0%	378
1A-10-2-1080	Break Out / Excavate to formation of TBM Footprint (2nd cut)	11-Feb-13	1 11-Feb-13		0%	378
1A-10-2-1090	Capcoring layer (600mm)	12-Feb-13	2 13-Feb-13		0%	378
1A-10-2-1100	Drainage and Outlets	13-Feb-13	2 14-Feb-13		0%	382
1A-10-2-1100	Drainage and Outlets	14-Feb-13	2 15-Feb-13		0%	380

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11-Mar-11 EITN Updated Programme - Progress to 18 Mar 11 JAC Checked Approved % Complete Summary

Legend:
█ Actual Work
█ Critical Remaining Work
█ Remaining Work
◆ Milestone
◆ % Complete
█ Summary

Activity ID	Activity Name	Start	Original Duration	Final	Activity % Complete	Year
1A-10-1-1200	Set up track (steepenside) - 1 x 95m	02-Nov-12	4	02-Nov-12	0%	2012
1A-10-1-1201	Welding and grinding	05-Nov-12	3	08-Nov-12	0%	2012
1A-10-1-1210	Drainage/Rail Connections	05-Nov-12	3	08-Nov-12	0%	2012
1A-10-1-1240	150mm Concrete Supporting Layer	05-Nov-12	6	10-Nov-12	0%	2012
1A-10-1-1230	Installation of IMU Boxes and Loops	07-Nov-12	1	07-Nov-12	0%	2012
1A-10-1-1220	Final Rail Alignment - Check and Approve	05-Nov-12	1	08-Nov-12	0%	2012
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)						
1A-10-1-1250	110mm Roadbase	14-Nov-12	3	18-Nov-12	26%	2012
1A-10-1-1260	50mm Basecourse	14-Nov-12	1	14-Nov-12	0%	2012
1A-10-1-1270	35mm Wearing Course	15-Nov-12	1	15-Nov-12	0%	2012
SURFACING						
1A-10-1-1280	220mm Sub-base	14-Nov-12	4	18-Nov-12	26%	2012
1A-10-1-1290	225mm Base	14-Nov-12	1	14-Nov-12	0%	2012
1A-10-1-1300	60mm Blinder Course	15-Nov-12	1	15-Nov-12	0%	2012
1A-10-1-1310	35mm Surface Course - Main Carrageway and Boundary	16-Nov-12	1	16-Nov-12	0%	2012
ROAD FINISHING						
1A-10-1-1350	Landscaping	14-Nov-12	7	22-Nov-12	26%	2012
1A-10-1-1320	Parapets, Guard rails	14-Nov-12	0	14-Nov-12	0%	2012
1A-10-1-1330	Grind Rail Joints and Sealing Compound	14-Nov-12	0	14-Nov-12	0%	2012
1A-10-1-1340	Road Signs and Markings	20-Nov-12	2	21-Nov-12	0%	2012
1A-10-1-1360	Divert traffic onto Outbound	23-Nov-12	1	23-Nov-12	0%	2012
1A-10-1-1380	Divert traffic onto Outbound	23-Nov-12	0	23-Nov-12	0%	2012
INBOUND						
TRACK IMPROVEMENT-CARRIAGEWAY/FOOTWAY SUBGRADE						
1A-10-1-1380	Remove existing footway	23-Nov-12	32	18-Jan-13	37%	2013
1A-10-1-1390	Plane out existing surfacing over Trams Footprint (1st cut)	23-Nov-12	1	23-Nov-12	0%	2012
1A-10-1-1400	Plane out existing surfacing over Trams Footprint (1st cut)	26-Nov-12	1	26-Nov-12	0%	2012
1A-10-1-1410	Carry out inspection and testing of Subgrade	27-Nov-12	1	27-Nov-12	0%	2012
1A-10-1-1410	Sawcut Separation - Trams Ducts Outer Edge	27-Nov-12	1	27-Nov-12	0%	2012
1A-10-1-1420	Break Out/Excavate to formation of Trams Footprint (2nd cut)	28-Nov-12	3	30-Nov-12	0%	2012
1A-10-1-1430	Capping layer (600mm)	28-Nov-12	3	03-Dec-12	0%	2012
1A-10-1-1440	Rise Sub-base Type 1 (Track)	28-Nov-12	3	03-Dec-12	0%	2012
1A-10-1-1450	Drainage and Outfalls	30-Nov-12	2	03-Dec-12	0%	2012
1A-10-1-1460	Tram Ducts & Chambers	30-Nov-12	4	05-Dec-12	0%	2012
1A-10-1-1470	Excavate and Cast OLE Foundations (2 area)	30-Nov-12	7	10-Dec-12	0%	2012
1A-10-1-1480	Lay SL Duct to OLE	04-Dec-12	5	10-Dec-12	0%	2012
1A-10-1-1460	Prepare and check suitability of Formation	06-Dec-12	3	10-Dec-12	0%	2012
1A-10-1-1500	Track Improvement Layer	10-Dec-12	7	18-Dec-12	0%	2012
1A-10-1-1510	Installation of IMU, Drains and Cable Ducting	10-Dec-12	4	13-Dec-12	0%	2012
1A-10-1-1520	Keelring	15-Jan-13	2	16-Jan-13	0%	2013
1A-10-1-1530	Footpath Works	16-Jan-13	3	18-Jan-13	0%	2013
TRACK INSTALLATION						
1A-10-1-1540	Access Available for Track Laying	19-Dec-12	0	19-Dec-12	0%	2012
1A-10-1-1550	Set Up track (steepenside) - 1 x 95m	19-Dec-12	4	31-Dec-12	0%	2012
1A-10-1-1560	Welding and grinding	21-Dec-12	6	10-Jan-13	0%	2013
1A-10-1-1570	Drainage/Rail Connections	21-Dec-12	6	10-Jan-13	0%	2013
1A-10-1-1600	150mm Concrete Supporting Layer	21-Dec-12	6	14-Jan-13	0%	2013

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Actual Work Remaining Work % Complete

ETN Updated Programme - Progress to 18 Mar 11

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Summary

Activity ID	Activity Name	Start	Original Duration	Final	Activity % Complete	Year
1A-10-1-1560	Installation of IMU Boxes and Loops	31-Dec-12	1	31-Dec-12	0%	2012
1A-10-1-1580	Final Rail Alignment - Checks and Approve	10-Jan-13	1	10-Jan-13	0%	2013
TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS - IN/OUTBOUND)						
1A-10-1-1610	110mm Roadbase	15-Jan-13	3	17-Jan-13	33%	2013
1A-10-1-1620	55mm Basecourse	15-Jan-13	1	15-Jan-13	0%	2013
1A-10-1-1630	35mm Wearing Course	17-Jan-13	1	17-Jan-13	0%	2013
SURFACING						
1A-10-1-1640	220mm Sub-base	15-Jan-13	1	15-Jan-13	0%	2013
1A-10-1-1650	25mm Base	15-Jan-13	1	15-Jan-13	0%	2013
1A-10-1-1660	60mm Binder Course	17-Jan-13	1	17-Jan-13	0%	2013
1A-10-1-1670	35mm Surface Course - Main Carriageway and Boundary	21-Jan-13	1	21-Jan-13	0%	2013
ROAD FINISHING						
1A-10-1-1680	Installation of traffic light control - Junction 15	17-Jan-13	5	23-Jan-13	0%	2013
1A-10-1-1680	Parapets, Guard rails	17-Jan-13	1	17-Jan-13	0%	2013
1A-10-1-1720	Landscaping	18-Jan-13	0	18-Jan-13	0%	2013
1A-10-1-1730	Grid Rail Joint and Sealing Compound	22-Jan-13	2	23-Jan-13	0%	2013
1A-10-1-1710	Road Signs and Markings	24-Jan-13	1	24-Jan-13	0%	2013
1A-10-1-1720	Remove temporary traffic management	25-Jan-13	1	25-Jan-13	0%	2013
1A-10-1-1740	TRACKROADWORKS COMPLETE (CH - 2645-110000)	0	25-Jan-13	0	0%	2013
COMMISSIONING AND TESTING						
1A-10-1-TEST-100	Handover Acceptance of Roadworks and Trackworks	26-Jan-13	5	01-Feb-13	0%	2013
1A-10-1-TEST-110	Start remaining EDM works along track	04-Feb-13	0	0	0%	2013
FOOT OF THE WALK TRAM STOP						
1B-20-TRMS-20(3)	Order REC Supply	25-Mar-09	0	25-Mar-09	100%	2009
1A-10-1-TEST-1010	Ducting and Chambers	11-Oct-12	40	05-Dec-12	0%	2012
1A-10-1-TEST-1000	COMMENCE FOOT OF THE WALK TRAM STOP (Design available)	11-Oct-12	0	0	0%	2012
1A-10-1-TEST-1020	Tramstop Platform	26-Oct-12	50	16-Jan-13	0%	2013
1B-20-TRMS-50(3)	Access for visual inspection for EMU Train Stop installation (01B Foot of the Walk)	01-Jan-13	0	0	0%	2013
1A-10-1-TEST-1030	FOOT OF THE WALK TRAM STOP - CIVIL WORKS COMPLETE	0	16-Jan-13	0	0%	2013
1A-10-1-TEST-1040	Deliver and Install Tramstop Shelter (tba)	17-Jan-13	0	17-Jan-13	0%	2013
1A-10-1-TEST-1050	Start remaining EDM works on Tramstop	17-Jan-13	0	17-Jan-13	0%	2013
1B-20-TRMS-40(3)	Deliver and Install shelter	17-Jan-13	10	30-Jan-13	0%	2013
1B-20-TRMS-11(3)	Access for EMU Train Stop installation (01B Foot of the Walk)	30-Jan-13	0	30-Jan-13	0%	2013
1B-20-TRMS-45	Deliver and Install outside	08-Jul-13	10	22-Jul-13	0%	2013
1B-20-TRMS-50(3)	Install LV Power Supply and LV Power Equipment	27-Jul-13	25	27-Aug-13	0%	2013
1B-20-TRMS-70(3)	Install Telecom Equipment	27-Aug-13	30	30-Sep-13	0%	2013
1B-20-TRMS-60(3)	Install Station Control Equipment + AFC Equipment	27-Aug-13	25	01-Oct-13	0%	2013
1B-20-TRMS-60(3)	Site Acceptance Test Tramstop	01-Oct-13	5	08-Oct-13	0%	2013
31B Foot of the Walk (inc to McDonald Road (exc))						
21	01B Foot of the Walk (inc) to McDonald Road (exc)	15-Jul-08	1577	22-Feb-14	47.65%	2014
21	01B Foot of the Walk (inc) to McDonald Road (exc)	15-Jul-08	2667	25-Feb-14	47.65%	2014
ALICEA & LITTLE'S COMPLETIONS						
1B-20-A-0040	Foot of the Walk to Balfour Street - by letter 6261 (06/10/10)	14-Mar-11	0	14-Mar-11	0%	2011
1B-10-A-0020	Balfour Street to McDonald Road - by letter 6261 (06/10/10)	18-Mar-11	0	18-Mar-11	0%	2011
E & M Installation						
1B-20-OHLE-30	Access for visual inspection for EMU upgrade installation FLOW - EPS	03-Sep-13	0	03-Sep-13	0%	2013

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Revision

ETN Updated Programme - Progress to 18 Mar 11

11-Mar-11

Actual Work Remaining Work Critical Remaining Work Milestone

% Complete Summary

Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity ID	Activity Name	Start	Original Duration	Activity % Complete	Activity % Complete	Year	
1B-20-ELEC-30	Access for visual inspection to cable pits for cable laying FOW - BFS	02-Oct-13	0	0%	25%	2013	
1B-19-ELEC-30	Access for visual inspection to cable pits for cable laying BFS - MCR	02-Oct-13	0	0%	229	2013	
1B-20-OHLE-31	Access for EAM works - restoration FOW - BFS	03-Oct-13	0	0%	201	2013	
1B-1720-ELEC-80	Install Electrical Cables LME - CAE	01-Nov-13	18	274Nov-13	0%	188	2013
1B-19-ELEC-31	Access to cable pits for cable laying BFS - MCR	01-Nov-13	0	0%	187	2013	
1B-20-21-ELEC-50	Install Fibre Optic Cables BER - FOW - BFS	01-Nov-13	5	074Nov-13	0%	196	2013
1B-20-SIGN-60	Install Signaling Wayside Equipment FOW - BFS	01-Nov-13	6	084Nov-13	0%	195	2013
1B-20-ELEC-31	Access to cable pits for cable laying FOW - BFS	01-Nov-13	0	0%	177	2013	
1B-1920-ELEC-70	Install Fibre Optic Cables FOW - BFS - MCR	08-Nov-13	6	154Nov-13	0%	198	2013
1B-19-SIGN-60	Install Signaling Wayside Equipment BFS - MCR	11-Nov-13	6	184Nov-13	0%	195	2013
1B-20-SIGN-60	Installation of SIG-intensifying cabinet Leith Walk	15-Nov-13	15	05Dec-13	0%	177	2013
1B-20-SIGN-80	Installation of SIG equipment on crosswalk Leith Walk	28-Nov-13	5	05Dec-13	0%	189	2013
1B-20-SIGN-80	Commissioning of SIG-intensifying cabinet Leith Walk	06-Dec-13	5	13Dec-13	0%	177	2013
1B-19-OHLE-30	Access for visual inspection for EAM works installation BFS - MCR	06-Dec-13	0	0%	175	2013	
1B-19-OHLE-31	Access for EAM works installation BFS - MCR	26-Jan-14	0	0%	0	2014	
1B-1920-OHLE-50(3)	Installation of poles and building fringes - 8 (11 0227 - 11 0971)	26-Jan-14	5	24-Jan-14	0%	142	2014
1B-1920-OHLE-60(3)	Overhead Catenary Line - 6 (11 0227 - 11 0971)	27-Jan-14	10	01Feb-14	0%	142	2014
22	Foot of the walk (inc 10 Balmuir Street (exc))	18-Sep-08 A	256	13Dec-13	46.0%	254	2008
22	Foot of the walk (inc 10 Balmuir Street (exc))	18-Sep-08 A	1884	11Dec-13	46.0%	254	2008
22	Foot of the walk (inc 10 Balmuir Street (exc))	18-Sep-08 A	0	18-Sep-08 A	100%	0	2008
12130	Issue Construction Drawings (Road & Track Works)	0	18-Sep-08 A	100%	0	0	2008
18-Mar-11	Leith Walk Ch 80 - 360	18-Mar-11	683	11Dec-13	77%	773	2011
18-Mar-11	Leith Walk Ch 80 - 360	18-Mar-11	659	21Aug-12	659	659	2011
18-Mar-11	Leith Walk Ch 80 - 360	18-Mar-11	108	22-Aug-11	74%	74%	2011
1B-20-ROAD-1(1)(3)	Assumed issue of the Change Order EOD to IFC	18-Mar-11	0	0%	87	87	2011
1B-20-ROAD-2(1)(3)	Establish Traffic Management & Temp. Fencing	18-Apr-11	2	18-Apr-11	0%	87	2011
1B-20-ROAD-2(2)	Trail Holes for Services	15-Apr-11	3	21-Apr-11	0%	87	2011
1B-20-ROAD-3(1)(3)	Excavate Existing Carriageway	25-Apr-11	8	05May-11	0%	87	2011
1B-20-ROAD-3(2)	Excavate Existing Kerbs	27-Apr-11	3	29-Apr-11	0%	120	2011
1B-20-ROAD-3(2)	Capping	03-May-11	5	08May-11	0%	87	2011
1B-20-ROAD-4(1)(3)	Lay and Concrete Ducts (& Chambers)	10-May-11	20	07-Jun-11	0%	87	2011
1B-20-ROAD-4(2)	Relocate Existing Manholes	10-May-11	20	07-Jun-11	0%	87	2011
1B-20-ROAD-4(1)(3)	Subbase	08-Jun-11	8	17-Jun-11	0%	87	2011
1B-20-ROAD-4(1)(3)	Construct Kerb lines	20-Jun-11	14	07-Jul-11	0%	87	2011
1B-20-ROAD-5(1)(3)	Reset Cullies (& Connections)	20-Jun-11	12	05-Jul-11	0%	86	2011
1B-20-ROAD-7(1)(3)	Pavement Works (Footpath)	08-Jul-11	31	20-Aug-11	0%	748	2011
1B-20-ROAD-6(2)	Roadbase	08-Jul-11	4	13-Jul-11	0%	87	2011
1B-20-ROAD-6(2)	Blind	14-Jul-11	4	19-Jul-11	0%	87	2011
1B-20-ROAD-6(2)	Bus Bays & Parking Areas	18-Jul-11	19	11-Aug-11	0%	87	2011
1B-20-ROAD-1(2)	Remove Fencing and Traffic Management & Apply Temporary Measures	12-Aug-11	1	13-Aug-11	0%	87	2011
Phase 2 Southbound (City) Carriageway (Ch 80-350)		15-Aug-11	90	18-Dec-11	66%	66%	2011
1B-20-ROAD-2(3)	Establish Traffic Management & Temp. Fencing	15-Aug-11	2	18-Aug-11	0%	87	2011
1B-20-ROAD-2(3)	Trail Holes for Services	17-Aug-11	3	18-Aug-11	0%	87	2011
1B-20-ROAD-3(1)(3)	Excavate Existing Carriageway	22-Aug-11	9	01-Sep-11	0%	87	2011
1B-20-ROAD-3(1)(3)	Excavate Existing Kerbs	24-Aug-11	3	26-Aug-11	0%	120	2011

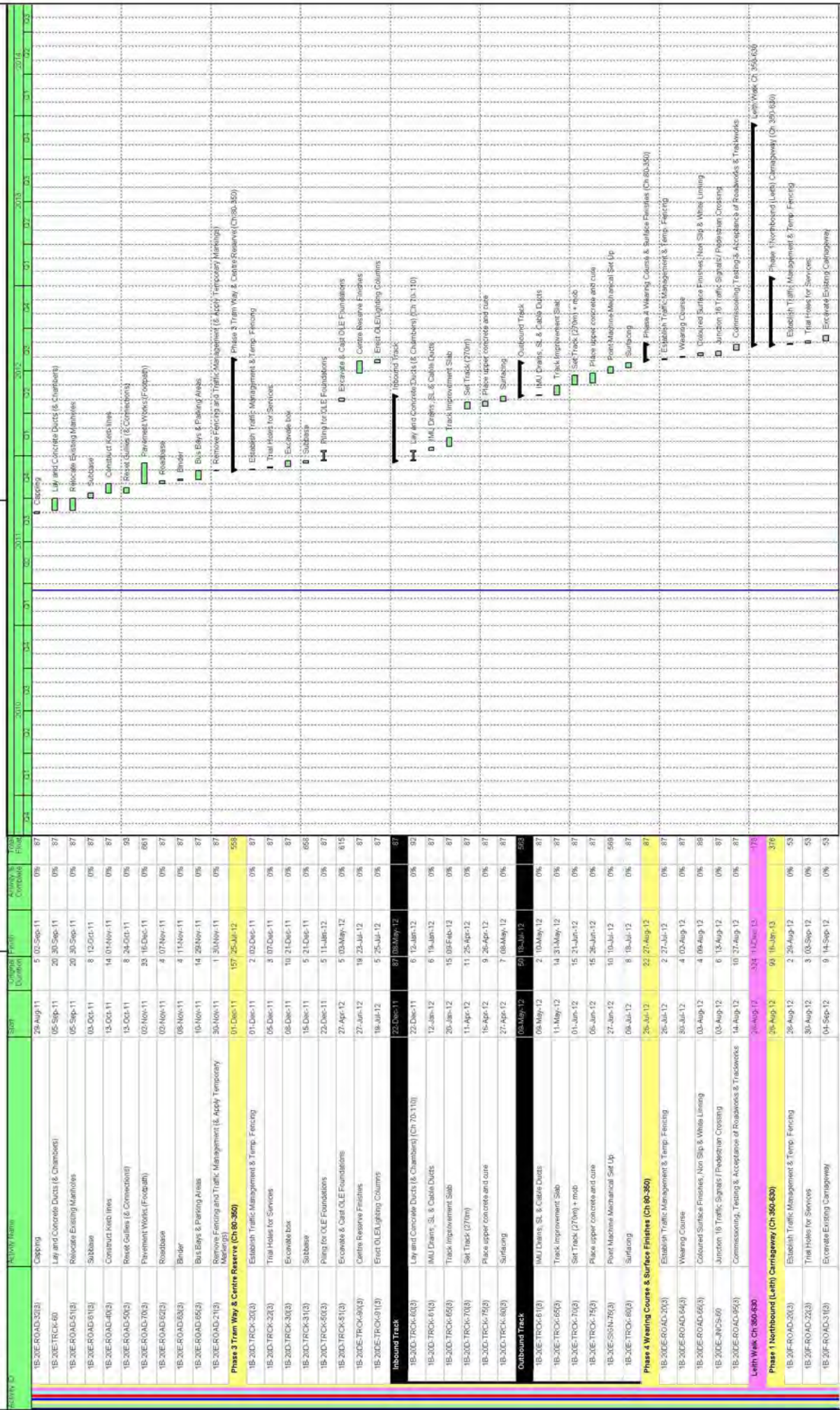
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Actual Work Remaining Work % Complete

Critical Remaining Work Milestone

Approved JAC

ETN Updated Programme - Progress to 18 Mar 11



Date	Revision	Checked	Approved
11-Mar-11	ETN Updated Programme - Progress to 18 Mar 11	JAC	

Activity ID	Activity Name	Start	Complete Duration	Finish	Activity % Complete	Type	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1B-20E-ROAD-30(3)	Excavate Existing Kerbs	06-Sep-12	3	10-Sep-12	0%	51										
1B-20E-ROAD-32(3)	Capping	11-Sep-12	6	18-Sep-12	0%	53										
1B-20E-TRCK-40	Lay and Concrete Ducts (& Chambers)	18-Sep-12	24	22-Oct-12	0%	53										
1B-20E-ROAD-51(1)	Relocate Existing Manholes	18-Sep-12	20	16-Oct-12	0%	51										
1B-20E-ROAD-51(3)	Subbase	23-Oct-12	8	01-Nov-12	0%	53										
1B-20E-ROAD-40(3)	Construct Metro lines	02-Nov-12	14	21-Nov-12	0%	53										
1B-20E-ROAD-50(3)	Reset Gullies (& Connections)	02-Nov-12	8	13-Nov-12	0%	59										
1B-20E-ROAD-70(3)	Pavement Works (Footpath)	22-Nov-12	31	15-Jan-13	0%	376										
1B-20E-ROAD-62(3)	Roadbase	22-Nov-12	4	27-Nov-12	0%	53										
1B-20E-ROAD-65(3)	Binder	28-Nov-12	4	03-Dec-12	0%	53										
1B-20E-ROAD-65(3)	Bus Bays & Parking Areas	30-Nov-12	18	07-Jan-13	0%	53										
1B-20E-ROAD-31(3)	Remove Fencing and Traffic Management (& Apply Temporary Measures)	08-Jan-13	1	08-Jan-13	0%	53										
Phase 2 Southbound (City) Carriageway (Ch 350-630)		06-Jan-13	94	22-May-13	321											
1B-20G-ROAD-20	Establish Traffic Management & Temp. Fencing	06-Jan-13	2	10-Jan-13	0%	53										
1B-20G-ROAD-20(3)	Trail Hoops for Services	11-Jan-13	3	15-Jan-13	0%	53										
1B-20G-ROAD-31(3)	Excavate Existing Carriageway	16-Jan-13	8	25-Jan-13	0%	53										
1B-20G-ROAD-30(3)	Excavate Existing Kerbs	15-Jan-13	3	22-Jan-13	0%	50										
1B-20G-ROAD-32(3)	Capping	23-Jan-13	5	29-Jan-13	0%	53										
1B-20G-ROAD-41(3)	Lay and Concrete Ducts (& Chambers)	30-Jan-13	24	04-Mar-13	0%	53										
1B-20G-ROAD-41(3)	Subbase	05-Mar-13	8	14-Mar-13	0%	53										
1B-20G-ROAD-40(3)	Construct Metro lines	15-Mar-13	14	04-Apr-13	0%	53										
1B-20G-ROAD-50(3)	Reset Gullies (& Connections)	15-Mar-13	9	27-Mar-13	0%	58										
1B-20G-ROAD-70(3)	Pavement Works (Footpath)	05-Apr-13	33	22-May-13	0%	21										
1B-20G-ROAD-42(3)	Roadbase	05-Apr-13	4	10-Apr-13	0%	53										
1B-20G-ROAD-43(3)	Binder	11-Apr-13	4	16-Apr-13	0%	53										
1B-20G-ROAD-65(3)	Bus Bays & Parking Areas	15-Apr-13	22	15-May-13	0%	53										
1B-20G-ROAD-21(3)	Remove Fencing and Traffic Management (& Apply Temporary Measures)	15-May-13	1	16-May-13	0%	53										
Phase 3 Tram Way & Centre Reserve (Ch 350-630)		17-May-13	126	12-Nov-13	199											
1B-20F-TRCK-20(1)	Establish Traffic Management & Temp. Fencing	17-May-13	2	20-May-13	0%	53										
1B-20F-TRCK-22(3)	Trail Hoops for Services	21-May-13	3	23-May-13	0%	53										
1B-20F-TRCK-30(3)	Excavate box	24-May-13	11	10-Jun-13	0%	53										
1B-20F-TRCK-31(3)	Subbase	02-Jun-13	5	10-Jun-13	0%	306										
1B-20F-TRCK-50(3)	Ring for OLE Foundations	11-Jun-13	5	17-Jun-13	0%	53										
1B-20F-TRCK-51(1)	Excavate & Cast OLE Foundations	06-Aug-13	5	15-Aug-13	0%	262										
1B-20FG-TRCK-60(3)	Centre Reserve Finishes	03-Oct-13	29	13-Nov-13	0%	53										
1B-20FG-TRCK-61(3)	Erect OLE Lighting Columns	01-Nov-13	5	07-Nov-13	0%	53										
Inbound Track		18-Jun-13	44	18-Aug-13	53											
1B-20F-TRCK-61(3)	IMU Drains, SL & Cable Ducts	18-Jun-13	6	25-Jun-13	0%	53										
1B-20F-TRCK-65(3)	Track Improvement Slop	26-Jun-13	17	18-Jul-13	0%	53										
1B-20F-TRCK-70(3)	Set Track (270m) + mob	16-Jul-13	14	08-Aug-13	0%	53										
1B-20F-TRCK-75(3)	Place upper concrete and cure	24-Jul-13	11	08-Aug-13	0%	53										
1B-20F-TRCK-80(3)	Surfing	08-Aug-13	7	18-Aug-13	0%	53										
Outbound Track		30-Aug-13	51	31-Oct-13	53											
1B-20G-TRCK-61(3)	IMU Drains, SL & Cable Ducts	20-Aug-13	2	21-Aug-13	0%	53										
1B-20G-TRCK-65(3)	Track Improvement Slop	22-Aug-13	16	12-Sep-13	0%	53										

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Revision

JAC

Checked

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Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

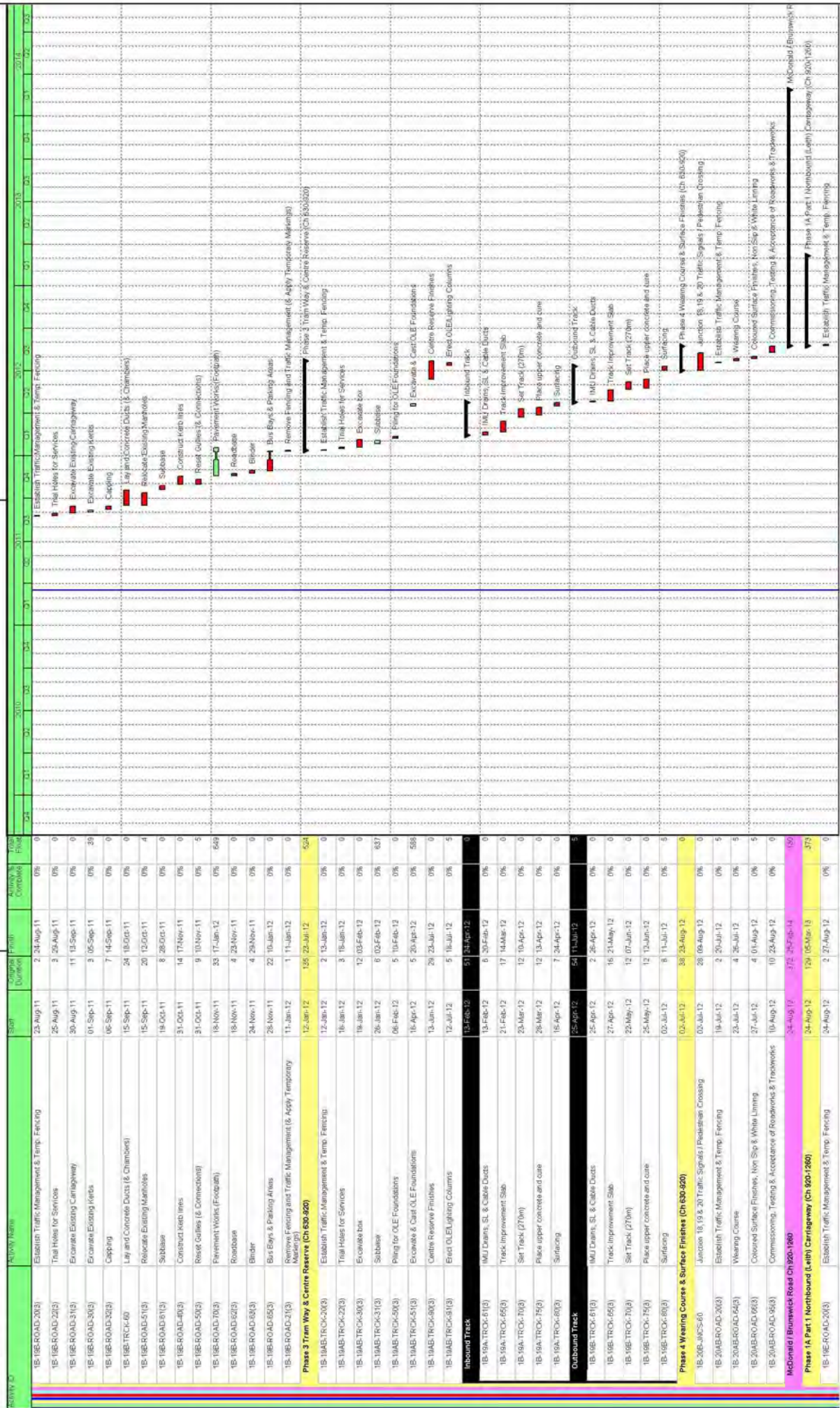
Activity ID	Activity Name	Start	Complete Duration	Activity % Complete	Plan
1B-20G-TRCK-70(3)	Sit Track (27m)	15-Sep-13	11/27-Sep-13	0%	55
1B-20G-TRCK-75(2)	Place upper concrete and cure	18-Sep-13	11/03-Oct-13	0%	53
1B-20G-TRCK-80(2)	Surfacing	22-Oct-13	8/31-Oct-13	0%	53
Phase 4 Weaving Course & Surface Finishes (Ch 630-630-360)					
1B-20FG-ROAD-2(4)	Establish Traffic Management & Temp Fencing	05-Nov-13	24/11-Dec-13	0%	53
1B-20FG-ROAD-6(4)	Weaving Course	08-Nov-13	2/11-Nov-13	0%	53
1B-20FG-ROAD-6(4)	Coloured Surface Finishes, Non Slip & White Lining	12-Nov-13	4/15-Nov-13	0%	53
1B-20G-JNCS-60	Junction 17 Traffic Signals / Pedestrian Crossing	18-Nov-13	8/27-Nov-13	0%	53
1B-20FG-ROAD-6(4)	Commissioning, Testing & Acceptance of Roadworks & Trackworks	28-Nov-13	10/11-Dec-13	0%	53
Leith Walk Substation					
1B-20-SUBS-80	Civil Engineering and Building Works	17-Aug-11	65/15-Nov-11	0%	430
1B-20-SUBS-30	Access for visual inspection for EAM Substation installation (01B Leith Walk)	17-Oct-11	0	0%	749
1B-20-SUBS-100	Access for Power Infeed	17-Oct-11	5/24-Oct-11	0%	701
1B-20-SUBS-31	Access for EAM Substation installation (01B Leith Walk)	15-Nov-11	0	0%	457
1B-20-SUBS-45	Install HV Power Supply and Equipment (SP)	24-Nov-11	20/29-Dec-11	0%	422
1B-20-SUBS-50	Install LV Power Supply and LV Power Equipment	04-Jan-12	15/27-Jan-12	0%	552
1B-20-SUBS-55	Engage with Scottish Power	23-Jan-12	0	0%	645
1B-20-SUBS-40	Power infeed from Public NAT available inc HV cable	24-Jan-12	0	0%	645
1B-20-SUBS-70	Install Telecom and Scada	30-Jan-12	15/17-Feb-12	0%	552
1B-20-SUBS-80	Installation of TPS Equipment	20-Feb-12	30/30-Mar-12	0%	552
1B-20-SUBS-80	Testing and Commissioning	02-Apr-12	14/20-Apr-12	0%	552
1B-20-SUBS-100	Testing and Commissioning	15-Jun-12	5/27-Sep-12	0%	552
Balfour Street (inc) to McDonald Road (exc)					
25	Balfour Street (inc) to McDonald Road (exc)	15-Jul-08 A	2067/26-Feb-14	47.85%	175
Design					
12150	Issue Construction Drawings (Road & Track Works)	10-Sep-08 A	0/10-Sep-08 A	100%	
Road & Track Works					
Balfour Street Ch 630-920					
1B-19A-ROAD-01(3)	Assumed issue of the Charge Order BCO to IFC	16-Mar-11	114/30-Aug-11	0%	730
1B-19A-ROAD-03(2)	Establish Traffic Management & Temp Fencing	16-Mar-11	0	0%	0
1B-19A-ROAD-2(2)	Trial Holes for Sewers	15-Apr-11	3/18-Apr-11	0%	0
1B-19A-ROAD-31(3)	Excavate Existing Carriageway	25-Apr-11	11/10-May-11	0%	0
1B-19A-ROAD-30(3)	Excavate Existing Kerbs	27-Apr-11	5/29-Apr-11	0%	38
1B-19A-ROAD-32(2)	Capping	03-May-11	7/11-May-11	0%	0
1B-19A-TRCK-60	Lay and Concrete Duxes (& Channels)	12-May-11	24/15-Jun-11	0%	0
1B-19A-ROAD-51(3)	Relocate Existing Manholes	12-May-11	30/06-Jun-11	0%	4
1B-19A-ROAD-51(3)	Subbase	15-Jun-11	8/27-Jun-11	0%	0
1B-19A-ROAD-60(3)	Construct Kerb lines	28-Jun-11	14/15-Jul-11	0%	0
1B-19A-ROAD-50(3)	Reset Cullies (& Connections)	28-Jun-11	8/07-Jul-11	0%	6
1B-19A-ROAD-70(2)	Pavement Works (Footpath)	15-Jul-11	31/30-Aug-11	0%	728
1B-19A-ROAD-03(3)	Roadbase	18-Jul-11	4/21-Jul-11	0%	0
1B-19A-ROAD-63(3)	Brick	22-Jul-11	4/27-Jul-11	0%	0
1B-19A-ROAD-65(3)	Bus Bays & Fencing Heels	26-Jul-11	18/18-Aug-11	0%	0
1B-19A-ROAD-11(3)	Remove Fencing and Traffic Management (& Apply Temporary Mastops)	22-Aug-11	1/22-Aug-11	0%	0
Phase 2 Southbound (Chy) Carriageway (Ch 630-920)					
05-Aug-11	99/17-Jan-12	0%	645		

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Actual Work Remaining Work Critical Remaining Work % Complete

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Summary



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Legend:

- Actual Work
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Date: 11-Mar-11

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Checked: JAC

Approved:

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Type	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1B-1BE-ROAD-2(1)	Trial Holes for Services	26-Aug-12	3	30-Aug-12	0%	0										
1B-1BE-ROAD-3(1)	Excavate Existing Carriageway	31-Aug-12	15	30-Sep-12	0%	0										
1B-1BE-ROAD-3(2)	Excavate Existing Kerbs	04-Sep-12	4	07-Sep-12	0%	63										
1B-1BE-ROAD-2(2)	Capping	07-Sep-12	7	17-Sep-12	0%	0										
1B-1BE-TRCK-60	Lay and Concrete Ducts (& Chambers)	18-Sep-12	20	15-Oct-12	0%	0										
1B-1BE-ROAD-5(1)	Relocate Existing Manholes	18-Sep-12	20	15-Oct-12	0%	31										
1B-1BE-ROAD-6(1)	Subbase	28-Nov-12	6	05-Dec-12	0%	0										
1B-1BE-TRCK-90(1)	Centre Reserve Finishes	28-Nov-12	8	07-Dec-12	0%	429										
1B-1BE-ROAD-4(3)	Construct Verb Lines	05-Dec-12	17	10-Jan-13	0%	0										
1B-1BE-ROAD-5(3)	Rise & Gullies (& Connections)	05-Dec-12	10	18-Dec-12	0%	7										
1B-1BE-ROAD-7(2)	Pavement Works (Footpath)	11-Jan-13	38	05-Mar-13	0%	373										
1B-1BE-ROAD-2(2)	Roarbase	11-Jan-13	4	16-Jan-13	0%	0										
1B-1BE-ROAD-3(3)	Binder	21-Jan-13	4	24-Jan-13	0%	0										
1B-1BE-ROAD-5(1)	Remove Fencing and Traffic Management (& Apply Temporary Measures)	25-Jan-13	1	25-Jan-13	0%	0										
1B-1BE-ROAD-5(1)	Inbound Track Ch 1100-1200 ex McDonald	18-Oct-12	50	18-Jan-13	0%	0										
1B-1BE-TRCK-3(1)	Subbase	18-Oct-12	2	17-Oct-12	0%	0										
1B-1BE-TRCK-5(3)	Piling for OLE Foundations	18-Oct-12	4	23-Oct-12	0%	0										
1B-1BE-TRCK-5(1)	Excavate & Cast OLE Foundations	24-Oct-12	4	29-Oct-12	0%	0										
1B-1BE-TRCK-6(1)	MU Drains, SL & Cable Ducts	30-Oct-12	9	01-Nov-12	0%	0										
1B-1BE-TRCK-6(2)	Track Improvement Sub	03-Nov-12	10	15-Nov-12	0%	0										
1B-1BE-TRCK-7(2)	Set Track	16-Nov-12	5	23-Nov-12	0%	0										
1B-1BE-TRCK-7(3)	Place upper concrete and cure	21-Nov-12	5	27-Nov-12	0%	0										
1B-1BE-TRCK-9(3)	Surfing	17-Jan-13	2	18-Jan-13	0%	0										
1B-1BE-TRCK-9(3)	Phase 1A Panz Highbound (Leith) Carriageway (Ch 920-1260)	28-Jan-13	29	06-Mar-13	372	0										
1B-1BE-ROAD-2(1)	Establish Traffic Management & Temp. Fencing	28-Jan-13	1	28-Jan-13	0%	0										
1B-1BE-ROAD-2(1)	Trial Holes for Services	29-Jan-13	1	29-Jan-13	0%	0										
1B-1BE-ROAD-3(1)	Excavate Existing Carriageway	30-Jan-13	2	31-Jan-13	0%	0										
1B-1BE-ROAD-3(3)	Excavate Existing Kerbs	01-Feb-13	1	01-Feb-13	0%	16										
1B-1BE-ROAD-3(2)	Capping	01-Feb-13	2	04-Feb-13	0%	0										
1B-1BE-TRCK-60	Lay and Concrete Ducts (& Chambers)	05-Feb-13	3	07-Feb-13	0%	0										
1B-1BE-ROAD-6(1)	Subbase	16-Feb-13	2	20-Feb-13	0%	0										
1B-1BE-TRCK-60(2)	Centre Reserve Finishes	16-Feb-13	4	22-Feb-13	0%	2										
1B-1BE-ROAD-4(3)	Construct Verb Lines	21-Feb-13	1	21-Feb-13	0%	3										
1B-1BE-ROAD-5(3)	Rise & Gullies (& Connections)	21-Feb-13	4	26-Feb-13	0%	0										
1B-1BE-ROAD-7(3)	Pavement Works (Footpath)	23-Feb-13	5	28-Feb-13	0%	376										
1B-1BE-ROAD-6(3)	Roarbase	27-Feb-13	2	28-Feb-13	0%	0										
1B-1BE-ROAD-6(3)	Binder	04-Mar-13	2	05-Mar-13	0%	0										
1B-1BE-ROAD-2(1)	Remove Fencing and Traffic Management (& Apply Temporary Measures)	05-Mar-13	1	05-Mar-13	0%	0										
1B-1BE-TRCK-3(1)	Subbase	01-Feb-13	2	01-Mar-13	0%	0										
1B-1BE-TRCK-6(1)	MU Drains, SL & Cable Ducts	08-Feb-13	2	08-Feb-13	0%	3										
1B-1BE-TRCK-6(1)	Track Improvement Sub	11-Feb-13	3	13-Feb-13	0%	0										
1B-1BE-TRCK-7(2)	Set Track + mnb	14-Feb-13	6	21-Feb-13	0%	0										
1B-1BE-TRCK-7(3)	Place upper concrete and cure	15-Feb-13	2	18-Feb-13	0%	0										
1B-1BE-TRCK-8(3)	Surfing	01-Mar-13	1	01-Mar-13	0%	0										

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Legend:
█ Actual Work
█ Critical Remaining Work
█ Remaining Work
█ Milestone
█ % Complete
█ Summary

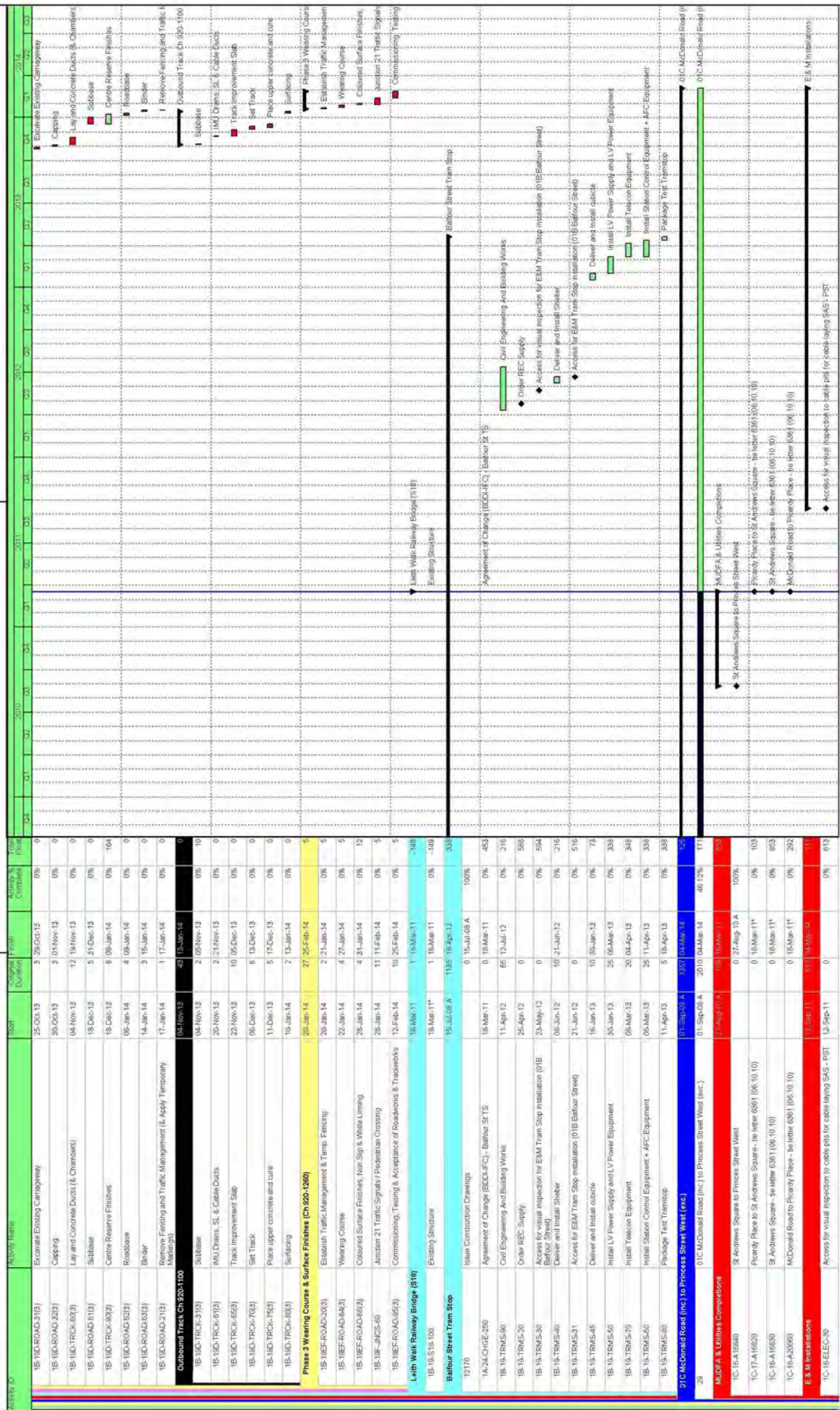
Date: 11-Mar-11
 Revision: EITN Updated Programme - Progress to 18 Mar 11
 Checked: JAC
 Approved:

Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Task Flag
Phase 1B Northbound (Leth) Carrisway (Ch 920-1260)						
1B-19C-ROAD-2(1)	Establish Traffic Management & Temp. Fencing	07-Mar-13	72	18-Jun-13	300	
1B-19C-ROAD-2(2)	Trail Holes for Services	07-Mar-13	1	07-Mar-13	0%	
1B-19C-ROAD-3(1)	Excavate Existing Carrisway	08-Mar-13	3	10-Mar-13	0%	
1B-19C-ROAD-3(2)	Capping	11-Mar-13	2	13-Mar-13	0%	
1B-19C-TRCK-6(1)	Lay and Concrete Ducts (& Chambers)	26-Mar-13	20	25-Apr-13	0%	
1B-19C-ROAD-6(1)	Subbase	30-May-13	5	05-Jun-13	0%	
1B-19C-ROAD-6(2)	Centre Reserve Finishes	30-May-13	8	10-Jun-13	0%	
1B-19C-ROAD-6(3)	Roadbase	06-Jun-13	4	11-Jun-13	0%	
1B-19C-ROAD-6(4)	Binder	14-Jun-13	3	18-Jun-13	0%	
1B-19C-ROAD-7(1)	Remove Fencing and Traffic Management (& Apply Temporary Messages)	19-Jun-13	1	19-Jun-13	0%	
Inbound Track Ch 920-1100						
1B-19C-TRCK-3(1)	Subbase	20-Mar-13	57	13-Jun-13	9	
1B-19C-TRCK-3(2)	Piling for OLE Foundations	20-Mar-13	2	21-Mar-13	0%	
1B-19C-TRCK-3(3)	Excavate & Cast OLE Foundations	22-Mar-13	4	27-Mar-13	0%	
1B-19C-TRCK-6(1)	MU Drains, SL & Cable Ducts	26-Mar-13	4	03-Apr-13	0%	
1B-19C-TRCK-6(2)	Track Improvement Sub	26-Apr-13	2	29-Apr-13	0%	
1B-19C-TRCK-7(1)	Set Track	30-Apr-13	10	14-May-13	0%	
1B-19C-TRCK-7(2)	Place upper concrete and cure	15-May-13	6	23-May-13	0%	
1B-19C-TRCK-7(3)	Surfing	20-May-13	7	28-May-13	0%	
1B-19C-TRCK-8(1)	Subbase	12-Jun-13	2	15-Jun-13	0%	
Phase 2A Southbound (City) Carrisway (Ch 920-1260)						
1B-19F-ROAD-3(1)	Establish Traffic Management & Temp. Fencing	26-Jun-13	109	20-Nov-13	191	
1B-19F-ROAD-3(2)	Trail Holes for Services	26-Jun-13	2	21-Jun-13	0%	
1B-19F-ROAD-3(3)	Excavate Existing Carrisway	24-Jun-13	3	26-Jun-13	0%	
1B-19F-ROAD-3(4)	Excavate Existing kerbs	01-Jul-13	3	05-Jul-13	0%	
1B-19F-ROAD-3(5)	Lay and Concrete Ducts (& Chambers)	04-Jul-13	7	12-Jul-13	0%	
1B-19F-ROAD-3(6)	Subbase	15-Jul-13	20	24-Aug-13	0%	
1B-19F-TRCK-6(1)	Centre Reserve Finishes	11-Sep-13	6	18-Sep-13	0%	
1B-19F-ROAD-3(7)	Construct Verb lines	11-Sep-13	8	20-Sep-13	0%	
1B-19F-ROAD-3(8)	Reset Gullies (& Connections)	18-Sep-13	14	08-Oct-13	0%	
1B-19F-ROAD-3(9)	Pavement Works (Footpath)	16-Sep-13	12	04-Oct-13	0%	
1B-19F-ROAD-3(10)	Roadbase	06-Oct-13	37	30-Nov-13	0%	
1B-19F-ROAD-3(11)	Binder	06-Oct-13	4	14-Oct-13	0%	
1B-19F-ROAD-3(12)	Remove Fencing and Traffic Management (& Apply Temporary Messages)	17-Oct-13	3	21-Oct-13	0%	
1B-19F-ROAD-3(13)	Subbase	23-Oct-13	1	23-Oct-13	0%	
Outbound Track Ch 1100-1260						
1B-19E-TRCK-3(1)	Subbase	15-Jul-13	57	18-Oct-13	0	
1B-19E-TRCK-4(1)	MU Drains, SL & Cable Ducts	13-Aug-13	3	15-Aug-13	0%	
1B-19E-TRCK-6(1)	Track Improvement Sub	16-Aug-13	10	26-Aug-13	0%	
1B-19E-TRCK-7(1)	Set Track	30-Aug-13	5	06-Sep-13	0%	
1B-19E-TRCK-7(2)	Place upper concrete and cure	04-Sep-13	5	10-Sep-13	0%	
1B-19E-TRCK-8(1)	Surfing	15-Oct-13	2	18-Oct-13	0%	
Phase 2B Southbound (City) Carrisway (Ch 920-1260)						
1B-19D-ROAD-2(1)	Establish Traffic Management & Temp. Fencing	25-Oct-13	65	17-Jan-14	157	
1B-19D-ROAD-2(2)	Trail Holes for Services	32-Oct-13	1	23-Oct-13	0%	
1B-19D-ROAD-2(3)	Excavate Existing Carrisway	34-Oct-13	1	24-Oct-13	0%	

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Legend:
█ Actual Work
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█ Critical Remaining Work
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Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Type
1B-15(R)-ROAD-31(2)	Ecovative Existing Campaignway	25-Oct-13	3	25-Oct-13	0%	0
1B-15(R)-ROAD-32(1)	Capping	30-Oct-13	3	01-Nov-13	0%	0
1B-15(R)-TRCK-60(3)	Lay and Concrete Ducts & Chambers	04-Nov-13	12	18-Nov-13	0%	0
1B-15(R)-ROAD-11(1)	Subbase	18-Dec-13	5	31-Dec-13	0%	0
1B-15(R)-TRCK-80(3)	Centre Restroom Finishes	18-Dec-13	8	08-Jan-14	0%	164
1B-15(R)-ROAD-82(3)	Roadbase	06-Jan-14	4	08-Jan-14	0%	0
1B-15(R)-ROAD-82(2)	Blinder	14-Jan-14	3	15-Jan-14	0%	0
1B-15(R)-ROAD-21(2)	Remove Fencing and Traffic Management & Apply Temporary Waterstop	17-Jan-14	1	17-Jan-14	0%	0
1B-15(R)-TRCK-41(2)	Subbase	04-Feb-14	43	15-Jun-14	0%	5
1B-15(R)-TRCK-41(2)	Subbase	04-Nov-13	2	05-Nov-13	0%	10
1B-15(R)-TRCK-61(2)	IMU Drains, SL & Cable Ducts	20-Nov-13	2	21-Nov-13	0%	0
1B-15(R)-TRCK-65(2)	Track Improvement Sub	22-Nov-13	10	05-Dec-13	0%	0
1B-15(R)-TRCK-70(4)	Salt Track	06-Dec-13	6	13-Dec-13	0%	0
1B-15(R)-TRCK-75(2)	Place upper concrete and cure	11-Dec-13	5	17-Dec-13	0%	0
1B-15(R)-TRCK-80(3)	Surfacing	10-Jan-14	2	13-Jan-14	0%	0
Phase 3 Wearing Course & Surface Finishes (Ch 920-1260)		20-Jan-14	27	25-Feb-14	0%	5
1B-15(R)-ROAD-30(3)	Establish Traffic Management & Temp. Fencing	20-Jan-14	2	21-Jan-14	0%	5
1B-15(R)-ROAD-44(3)	Wearing Course	22-Jan-14	4	27-Jan-14	0%	5
1B-15(R)-ROAD-46(3)	Colour Surface Finishes, Non Slip & White Lining	26-Jan-14	4	31-Jan-14	0%	12
1B-15(R)-JMS-60	Junction 21 Traffic Signals/ Pedestrian Crossing	26-Jan-14	11	11-Feb-14	0%	5
1B-15(R)-ROAD-85(3)	Commissioning, Testing & Acceptance of Roadworks & Trackworks	12-Feb-14	10	25-Feb-14	0%	5
Leith Walk Railway Bridge (S16)		18-Mar-11	1	18-Mar-11	100%	148
1B-15-S18-100	Existing Structure	18-Mar-11	1	18-Mar-11	0%	149
Balfour Street Tram Stop		15-Jul-08 A	1185	18-Apr-13	33%	338
12170	Issue Construction Drawings	0	15-Jul-08 A		100%	
1A-2-CHANGE-150	Agreement of Change (BDO/LFC) - Balfour S15	16-Mar-11	0	18-Mar-11	0%	453
1B-15-TRMS-30	Civil Engineering and Building Works	11-Apr-12	65	12-Jul-12	0%	216
1B-15-TRMS-20	Order REC Supply	25-Apr-12	0		0%	568
1B-15-TRMS-30	Access for visual inspection for EBM Tram Stop installation (01B Balfour Street)	23-May-12	0		0%	554
1B-15-TRMS-40	Deliver and Install Shelter	08-Jun-12	10	21-Jun-12	0%	216
1B-15-TRMS-31	Access for EBM Tram Stop installation (01B Balfour Street)	21-Jun-12	0		0%	518
1B-15-TRMS-45	Deliver and Install outside	16-Jun-13	10	30-Jun-13	0%	73
1B-15-TRMS-60	Install LV Power Supply and LV Power Equipment	30-Jun-13	25	05-Mar-13	0%	339
1B-15-TRMS-70	Install Telecom Equipment	06-Mar-13	20	04-Apr-13	0%	348
1B-15-TRMS-60	Install Station Control Equipment + AFC Equipment	06-Mar-13	25	11-Apr-13	0%	338
1B-15-TRMS-80	Package Test Transpico	11-Apr-13	5	18-Apr-13	0%	338
01C-McDonald Road (inc) to Princes Street West (exc)		01-Sep-08 A	157	03-Mar-14	4%	12
429	01C McDonald Road (inc) to Princes Street West (exc)	01-Sep-08 A	2010	04-Mar-14	46.12%	171
MUDFA & Utilities Completions		21-Aug-10 A	0%	18-Mar-11	100%	203
1C-15A-10580	St Andrews Square to Princes Street West	0	27-Aug-10 A		100%	
1C-17A-16820	Princes Place to St Andrews Square - the letter 6581 (06/10/10)	0	18-Mar-11*		0%	103
1C-16A-16820	St Andrews Square - the letter 6381 (06/10/10)	0	18-Mar-11*		0%	853
1C-16A-30000	McDonald Road to Princes Place - the letter 6381 (06/10/10)	0	18-Mar-11*		0%	292
E & M Installations		12-Jan-11	617	18-Mar-14	11%	11
1C-16ELEC-20	Access for visual inspection to cable pits for cable laying SAS - PST	12-Sep-11	0		0%	813

Date	Revision	Checked	Approved
11-Mar-11	ETN Updated Programme - Progress to 18 Mar 11	JAC	

Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity Name	Start	Complete Duration	Activity % Complete	Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
IC-16-0HLE-30	12-Sep-11	0	0%	0%										
IC-16-ELEC-31	11-Oct-11	0	0%	0%										
IC-16-SIGNW-60	11-Oct-11	6	100%	100%										
IC-16-0HLE-31	11-Oct-11	0	0%	0%										
IC-15-16-0HLE-50	28-Feb-12	4	06%	0%										
IC-15-16-0HLE-60	14-Mar-12	12	30%	0%										
IC-18-0HLE-30	16-Sep-13	0	0%	0%										
IC-18-ELEC-30	16-Sep-13	0	0%	0%										
IC-17-ELEC-30	16-Sep-13	0	0%	0%										
IC-17-0HLE-30	16-Sep-13	0	0%	0%										
IC-18-SIGNW-60	16-Oct-13	6	25%	0%										
IC-18-ELEC-31	16-Oct-13	0	0%	0%										
IC-17-ELEC-31	16-Oct-13	0	0%	0%										
IC-18-0HLE-50	16-Oct-13	5	22%	0%										
IC-17-SIGNW-60	16-Oct-13	6	24%	0%										
IC-17-0HLE-30	16-Oct-13	6	24%	0%										
IC-17-0HLE-31	16-Oct-13	0	0%	0%										
IC-18-0HLE-31	16-Oct-13	0	0%	0%										
IC-18-0HLE-60	24-Oct-13	10	05%	0%										
IC-17-18-TELC-80	24-Oct-13	8	31%	0%										
IC-17-SIGN-40	24-Oct-13	15	19%	0%										
IC-18-18-TELC-80	01-Nov-13	8	08%	0%										
IC-17-SIGN-30	13-Nov-13	5	19%	0%										
IC-17-SIGN-80	26-Nov-13	5	26%	0%										
IC-17-18-15-0HLE-50	26-Jan-14	9	30%	0%										
IC-17-18-15-0HLE-60	31-Jan-14	23	04%	0%										
McDonald Road (W5) to Priddy Place (XCL)	01-Sep-08	1864	09%	467%										
McDonald Road (W5) to Priddy Place (W6)	01-Sep-08	1864	09%	467%										
Design	10-Dec-08	0	100%	100%										
Road & Track Works	14-Apr-11	618	09%	33%										
Leith Walk Ch 0-200	15-Apr-11	297	0%	56%										
Phase 1 Northbound (Leith) Carrageway Ch 0-200	15-Apr-11	79	0%	75%										
IC-18A-ROAD-2(2)	15-Apr-11	2	18%	0%										
IC-18A-ROAD-2(3)	15-Apr-11	3	21%	0%										
IC-18A-ROAD-3(1)	27-Apr-11	9	05%	0%										
IC-18A-ROAD-3(2)	27-Apr-11	2	26%	0%										
IC-18A-ROAD-3(3)	03-May-11	5	09%	0%										
IC-18A-TRCV-50	10-May-11	24	13%	0%										
IC-18A-ROAD-5(1)	10-May-11	20	07%	0%										
IC-18A-ROAD-1(1)	14-Jun-11	8	25%	0%										
IC-18A-ROAD-4(1)	24-Jun-11	10	07%	0%										
IC-18A-ROAD-5(3)	24-Jun-11	8	01%	0%										
IC-18A-ROAD-7(1)	05-Jul-11	22	08%	0%										
IC-18A-ROAD-2(1)	05-Jul-11	4	13%	0%										

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Legend:
█ Actual Work
█ Critical Remaining Work
█ Remaining Work
█ Milestone
█ % Complete
█ Summary

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year Plan
1C-18A-ROAD-60(3)	Blinder	14-Jul-11	4	19-Jul-11	0%	2011
1C-18A-ROAD-21(3)	Remove Fencing and Traffic Management & Apply Temporary Measures	20-Jul-11	1	30-Jul-11	0%	2011
Phase 2 Southbound (City) Carriageway Ch 0-200						
1C-18B-ROAD-20(2)	Establish Traffic Management & Temp. Fencing	21-Jul-11	77	07-Nov-11	95%	2011
1C-18B-ROAD-20(3)	Establish Traffic Management & Temp. Fencing	21-Jul-11	2	23-Jul-11	0%	2011
1C-18B-ROAD-20(4)	Trail Holes for Services	25-Jul-11	3	27-Jul-11	0%	2011
1C-18B-ROAD-31(3)	Excavate Existing Carriageway	26-Jul-11	7	08-Aug-11	0%	2011
1C-18B-ROAD-39(3)	Excavate Existing kerbs	02-Aug-11	2	03-Aug-11	0%	2011
1C-18B-ROAD-32(3)	Capping	05-Aug-11	4	10-Aug-11	0%	2011
1C-18B-TRCK-60	Lay and Concrete Ducts (& Chambers)	11-Aug-11	24	15-Sep-11	0%	2011
1C-18B-ROAD-51(3)	Relocate Existing Manholes	11-Aug-11	4	16-Aug-11	0%	2011
1C-18B-ROAD-61(3)	Subbase	14-Sep-11	6	21-Sep-11	0%	2011
1C-18B-ROAD-49(3)	Construct kerb lines	22-Sep-11	10	05-Oct-11	0%	2011
1C-18B-ROAD-50(3)	Reset Cullies (& Connections)	22-Sep-11	9	28-Sep-11	0%	2011
1C-18B-ROAD-70(3)	Pavement Works (Footpath)	06-Oct-11	23	07-Nov-11	0%	2011
1C-18B-ROAD-62(3)	Roadbase	06-Oct-11	4	11-Oct-11	0%	2011
1C-18B-ROAD-63(3)	Blinder	12-Oct-11	4	17-Oct-11	0%	2011
1C-18B-ROAD-61(3)	Remove Fencing and Traffic Management & Apply Temporary Measures	18-Oct-11	1	18-Oct-11	0%	2011
Phase 3 Tram Way & Centre Reserve (Ch 200-375)						
1C-18AB-TRCK-20(3)	Establish Traffic Management & Temp. Fencing	19-Oct-11	217	05-Sep-12	60%	2011
1C-18AB-TRCK-20(2)	Trail Holes for Services	19-Oct-11	2	20-Oct-11	0%	2011
1C-18AB-TRCK-30(2)	Excavate box	21-Oct-11	3	26-Oct-11	0%	2011
1C-18AB-TRCK-31(3)	Subbase	02-Nov-11	4	07-Nov-11	0%	2011
1C-18AB-TRCK-50(3)	Piling for OLE Foundations	07-Nov-11	4	10-Nov-11	0%	2011
1C-18AB-TRCK-61(3)	Excavate & Cast OLE Foundations	25-Nov-11	4	28-Jun-12	0%	2012
1C-18AB-TRCK-60(3)	Centre Reserve Finishes	08-Aug-12	15	29-Aug-12	0%	2012
1C-18AB-TRCK-61(3)	Cast OLE Lighting Columns	30-Aug-12	5	05-Sep-12	0%	2012
Inbound Track						
1C-18A-TRCK-61(2)	IMU Drains, SL & Cable Ducts	11-Nov-11	55	03-Jun-12	33%	2011
1C-18A-TRCK-61(2)	Track Improvement Slab	11-Nov-11	6	18-Nov-11	0%	2011
1C-18A-TRCK-62(2)	Set Track (270m)	21-Nov-11	13	07-Dec-11	0%	2011
1C-18A-TRCK-70(2)	Place upper concrete and cure	08-Jun-12	11	29-Jun-12	0%	2012
1C-18A-TRCK-75(2)	Surfacing	13-Jun-12	8	22-Jun-12	0%	2012
1C-18A-TRCK-80(2)	Surfacing	25-Jun-12	7	03-Jul-12	0%	2012
Outbound Track						
1C-18B-TRCK-61(2)	IMU Drains, SL & Cable Ducts	04-Jul-12	2	05-Jul-12	0%	2012
1C-18B-TRCK-65(2)	Track Improvement Slab	06-Jul-12	12	20-Jul-12	0%	2012
1C-18B-TRCK-70(2)	Set Track (270m) + mob	24-Jul-12	14	13-Aug-12	0%	2012
1C-18B-TRCK-75(2)	Place upper concrete and cure	27-Jul-12	8	08-Aug-12	0%	2012
1C-18B-TRCK-80(2)	Surfacing	20-Aug-12	8	29-Aug-12	0%	2012
Phase 4 Waiting Course and Surface Finishes Ch 0-200						
1C-18AB-ROAD-20(3)	Establish Traffic Management & Temp. Fencing	06-Sep-12	21	04-Oct-12	33%	2012
1C-18AB-ROAD-64(3)	Wearing Course	06-Sep-12	2	07-Sep-12	0%	2012
1C-18AB-ROAD-66(3)	Covered Surface Finishes, Non Slo & White Lining	14-Sep-12	4	19-Sep-12	0%	2012
1C-18AB-JNCS-60	Joiners 22 Traffic Signals / Pedestrian Crossing	14-Sep-12	5	20-Sep-12	0%	2012
1C-18AB-ROAD-65(3)	Commissioning, Testing & Acceptance of Roadworks & Trackworks	21-Sep-12	10	04-Oct-12	0%	2012
Leith Walk Ch 200-375						
0C-003-12		25	18-Oct-13		33%	2013

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█ Actual Work
 █ Critical Remaining Work
 █ Remaining Work
 █ Milestone
 █ % Complete
 █ Summary

Date: 11-Mar-11
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 Checked: JAC
 Approved:

Activity ID	Activity Name	Start	Complete Duration	Finish	Activity % Complete	Year Picked
Phase 1 Northbound (Leth) Carrageway Ch 200-375						
1C-18A3-ROAD-203	Station Traffic Management & Temp. Fencing	05-Oct-12	77	01-Feb-13	50%	2012
1C-18A3-ROAD-213	Trail Holes for Services	05-Oct-12	2	08-Oct-12	0%	2012
1C-18A3-ROAD-313	Excavate Existing Carrageway	09-Oct-12	3	11-Oct-12	0%	2012
1C-18A3-ROAD-303	Excavate Existing Kerbs	13-Oct-12	9	24-Oct-12	0%	2012
1C-18A3-ROAD-3213	Capping	16-Oct-12	5	25-Oct-12	0%	2012
1C-18A3-TRCK-60	Lay and Concrete Ducts (& Chambers)	26-Oct-12	22	26-Nov-12	0%	2012
1C-18A3-ROAD-513	Relocate Existing Manholes	26-Oct-12	20	22-Nov-12	0%	2012
1C-18A3-ROAD-613	Subbase	27-Nov-12	8	06-Dec-12	0%	2012
1C-18A3-ROAD-403	Construct Metro lines	07-Dec-12	6	14-Dec-12	0%	2012
1C-18A3-ROAD-503	Risek Cullies (& Connections)	21-Dec-12	22	01-Feb-13	0%	2013
1C-18A3-ROAD-703	Pavement Works (Footpath)	21-Dec-12	4	08-Jan-13	0%	2013
1C-18A3-ROAD-6313	Roadbase	06-Jan-13	4	14-Jan-13	0%	2013
1C-18A3-ROAD-6513	Blinder	11-Jan-13	8	22-Jan-13	0%	2013
1C-18A3-ROAD-6613	Bus Bays & Parking Areas (Seyfield Street)	28-Jan-13	1	23-Jan-13	0%	2013
1C-18A3-ROAD-213 (Temporary)	Remove Fencing and Traffic Management (& Apply Temporary)	25-Apr-13	99	10-Sep-13	55%	2013
Phase 3 Tram Way & Centre Reserve Ch 200-375						
1C-18AB2-TRCK-203	Establish Traffic Management & Temp. Fencing	22-Apr-13	2	23-Apr-13	0%	2013
1C-18AB2-TRCK-2213	Trail Holes for Services	24-Apr-13	9	26-Apr-13	0%	2013
1C-18AB2-TRCK-303	Excavate box	26-Apr-13	8	03-May-13	0%	2013
1C-18AB2-TRCK-3113	Subbase	07-May-13	4	10-May-13	0%	2013
1C-18AB2-TRCK-503	Piling for OLE Foundations	10-May-13	4	15-May-13	0%	2013
1C-18AB2-TRCK-5113	Excavate & Cast OLE Foundations	26-Jun-13	4	03-Jul-13	0%	2013
1C-18AB2-TRCK-603	Centre Reserve Finishes	14-Aug-13	15	02-Sep-13	0%	2013
1C-18AB2-TRCK-6113	Erect OLE Lighting Columns	04-Sep-13	5	10-Sep-13	0%	2013
Inbound Track						
1C-18A2-TRCK-613	IMU Drains, SL & Cable Ducts	16-May-13	37	06-Jul-13	33%	2013
1C-18A2-TRCK-653	Track Improvement Sub	16-May-13	9	23-May-13	0%	2013
1C-18A2-TRCK-703	Set Track + mob	24-May-13	13	12-Jun-13	0%	2013
1C-18A2-TRCK-753	Place upper concrete and cure	13-Jun-13	6	24-Jun-13	0%	2013
1C-18A2-TRCK-803	Surfacing	16-Jun-13	8	27-Jun-13	0%	2013
Outbound Track						
1C-18B2-TRCK-613	IMU Drains, SL & Cable Ducts	08-Jul-13	40	03-Sep-13	33%	2013
1C-18B2-TRCK-653	Track Improvement Sub	08-Jul-13	2	09-Jul-13	0%	2013
1C-18B2-TRCK-703	Set Track	11-Jul-13	12	25-Jul-13	0%	2013
1C-18B2-TRCK-753	Place upper concrete and cure	26-Jul-13	8	06-Aug-13	0%	2013
1C-18B2-TRCK-803	Surfacing	01-Aug-13	8	03-Aug-13	0%	2013
Phase 2 Southbound (Ch) Carrageway Ch 200-375						
1C-18B2-ROAD-203	Establish Traffic Management & Temp. Fencing	24-Jun-13	75	03-Aug-13	43%	2013
1C-18B2-ROAD-2213	Trail Holes for Services	24-Jun-13	2	25-Jun-13	0%	2013
1C-18B2-ROAD-313	Excavate Existing Carrageway	26-Jun-13	9	30-Jun-13	0%	2013
1C-18B2-ROAD-303	Excavate Existing Kerbs	04-Feb-13	2	05-Feb-13	0%	2013
1C-18B2-ROAD-3313	Capping	07-Feb-13	4	12-Feb-13	0%	2013
1C-18B2-TRCK-60	Lay and Concrete Ducts (& Chambers)	13-Feb-13	22	14-Mar-13	0%	2013
1C-18B2-ROAD-513	Relocate Existing Manholes	13-Feb-13	20	12-Mar-13	0%	2013

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Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

Activity ID	Activity Name	Start	Original Duration	Activity % Complete	Top Road
1C-18B2-ROAD-61(2)	Subbase	15-Mar-13	6	23%	2013
1C-18B2-ROAD-61(3)	Construct road lines	25-Mar-13	10	0%	2013
1C-18B2-ROAD-50(3)	Rise/Gullies (& Connections)	6-Apr-13	6	33%	2013
1C-18B2-ROAD-70(3)	Reinment Works (Footpath)	08-Apr-13	23	10%	2013
1C-18B2-ROAD-62(3)	Roadbase	09-Apr-13	4	23%	2013
1C-18B2-ROAD-81(3)	Blender	15-Apr-13	4	0%	2013
1C-18B2-ROAD-31(3)	Remove Fencing and Traffic Management (& Apply Temporary Measures)	18-Apr-13	1	23%	2013
Phase 4 Weaving Course and Surface Finishes					
1C-18AB5-ROAD-20(3)	Establish Traffic Management & Temp. Fencing	11-Sep-13	27	0%	2013
1C-18AB2-ROAD-64(3)	Weaving Course	12-Sep-13	2	0%	2013
1C-18AB5-ROAD-66(3)	Coloured Surface Finishes, Non Slip & White Lining	19-Sep-13	4	24%	2013
1C-18AB5-JACS-60	Installation of traffic light control - Junction 23	19-Sep-13	15	0%	2013
1C-18AB5-ROAD-34(3)	Commissioning, Testing & Acceptance of Roadworks & Trackworks	25-Sep-13	10	0%	2013
London Road Ch 375-500					
Phase 1					
1C-18CD-ROAD-110	Dummy	14-Apr-11	219	27%	2011
1C-18CD-ROAD-110	Installation of traffic light control - Junction 25	14-Apr-11	170	27%	2011
1C-18CD-ROAD-120	Dummy	27-Feb-12	88	100%	2012
1C-18CD-ROAD-140	S&T Track Dummy + rmb	22-Jun-12	7	100%	2012
1C-18CD-ROAD-150	Dummy	24-Jul-12	76	100%	2012
1C-18CD-ROAD-150	S&T Track Dummy	17-Sep-12	4	21%	2012
McDonald Road Train Stop					
12180	Issue Construction Drawings	01-Sep-08 A	1184	7%	2008
1A2-JA-GE-360	Agreement of Change (BOD/JFC) - McDonald Rd TS	16-Mar-11	0	18%	2011
1C-18-TRMS-30	Civil Engineering And Building Works	22-Jun-12	65	30%	2012
1C-18-TRMS-20	Order REC Supply	18-Sep-12	0	0%	2012
1C-18-TRMS-30	Access for visual inspection for E&M Tram Stop installation (OIC McDonald Road)	15-Oct-12	0	0%	2012
1C-18-TRMS-60	Deliver and Install Shelter	30-Oct-12	10	13%	2012
1C-18-TRMS-31	Access for E&M Tram Stop installation (OIC McDonald Road)	13-Nov-12	0	0%	2012
1C-18-TRMS-45	Deliver and Install outside	13-Mar-13	16	27%	2013
1C-18-TRMS-50	Install LV Power Supply and LV Power Equipment	27-Mar-13	25	100%	2013
1C-18-TRMS-70	Install Telecom Equipment	02-May-13	20	100%	2013
1C-18-TRMS-60	Install Station Control Equipment + AFC Equipment	02-May-13	25	100%	2013
1C-18-TRMS-50	Package Test Temstop	16-Jun-13	5	17%	2013
Priority Place (inc) to St. Andrew Square (inc)					
33	Priority Place (inc) to St. Andrew Square (inc)	05-Mar-10 A	287	15%	2010
33	Priority Place (inc) to St. Andrew Square (inc)	05-Mar-10 A	1307	27%	2010
Design					
1C-3DGG-ROAD-130	FC Drawings Priority Place Train Stop	05-Mar-10 A	269	18%	2010
1C-3DGG-ROAD-100	FC Drawings Priority Place Change Design Widened Footway	05-Mar-10 A	0	0%	2010
1C-3DGG-ROAD-100	FC Drawings Priority Place Change Design OLE, Track, TC2	05-Mar-10 A	0	0%	2010
1C-3DGG-ROAD-110	FC Drawings Priority Place Change Design New Roundabout	05-Mar-10 A	0	0%	2010
1C-3DGG-ROAD-140	FC Drawings Central Lane Situation	05-Mar-10 A	0	0%	2010
1C-3DGG-ROAD-150	FC Drawings Edge Street Change	05-Mar-10 A	0	0%	2010

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Actual Work

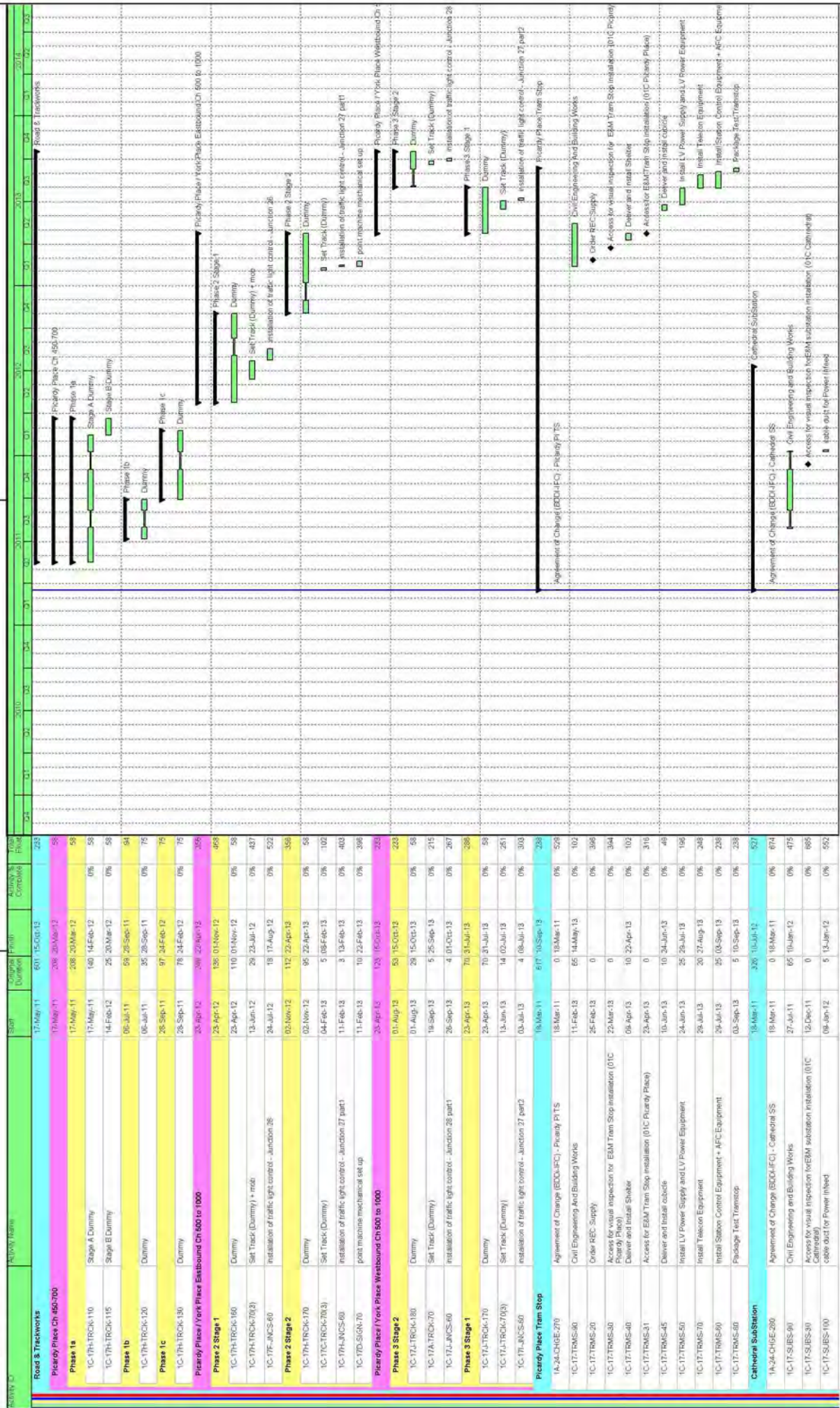
Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary



Legend:

- Actual Work
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- Critical Remaining Work
- Milestone
- % Complete
- Summary

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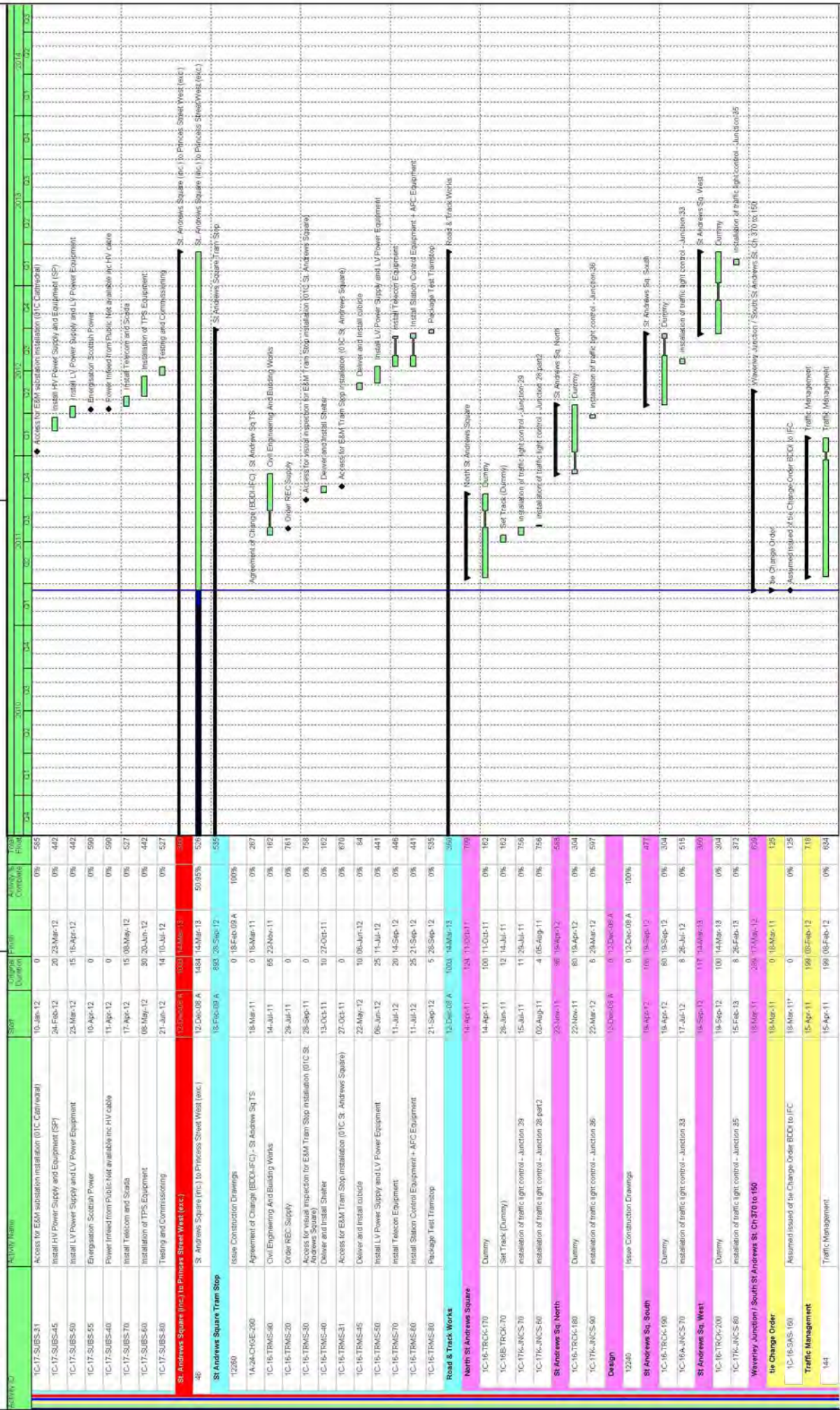
ETN Updated Programme - Progress to 18 Mar 11

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Revision



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Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year	Phase
1C-16-SAS-155	Phase 1 - South/North St Andrew St Closed	15-Apr-11	0	0	0%	2011	03
1C-16-SAS-156	Phase 2 - Bus Traffic to Neasdale Westbound Lane	15-Apr-11	0	0	0%	2011	03
1C-16-SAS-167	Phase 2 - Bus Traffic to Neasdale Eastbound Lane (over temp bridge)	01-Dec-11	0	0	0%	2011	03
1C-16-SAS-168	Close for concreting across PS	01-Feb-12	1	0	0%	2012	03
1C-16-SAS-159	Phase 4 - Bus Traffic to Neasdale Westbound Lane	08-Feb-12	0	0	0%	2012	03
Phases 1 & 2							
141	Phases 1 & 2	15-Apr-11	206	18-Feb-12	70%	2011	03
1C-16A-SAS1-252	Erect Pedestrian Barrier	15-Apr-11*	206	18-Feb-12	0%	2011	03
1C-16A-SAS1-143	Site Clearance & Site Compound	15-Apr-11*	1	15-Apr-11	0%	2011	03
1C-16A-SAS1-144	Investigate services / utility locations / mark outside positions / levels	15-Apr-11	12	04-May-11	0%	2011	03
1C-16A-JMCS-540	Installation of traffic light control - Junction 30	18-Apr-11	4	21-Apr-11	0%	2011	03
1C-16A-SAS1-233	OLE Wall Fixings (16m) South/North St Andrew St	24-Jun-12	8	03-Feb-12	0%	2012	03
		25-Jan-12	16	18-Feb-12	0%	2012	03
Phase 1 - Inbound SSAS + PS							
148	Phase 1 - Inbound SSAS + PS	18-Apr-11	57	08-Jul-11	70%	2011	03
1C-16A-SAS1-169	Phase Main Carriageway 250mm	18-Apr-11	3	20-Apr-11	0%	2011	03
1C-16A-SAS1-165	Excavate to Formation for Carriageway and Track (incl for Capping Type 1)	21-Apr-11	5	28-Apr-11	0%	2011	03
1C-16A-SAS1-176	Remove existing kerbs to site	21-Apr-11	5	28-Apr-11	0%	2011	03
1C-16A-SAS1-247	Check suitability of formation (ongoing)	21-Apr-11	0	0	0%	2011	03
1C-16A-SAS1-248	Capping Layer to Adjacent Carriageway (600mm)	21-Apr-11	5	26-Apr-11	0%	2011	03
1C-16A-SAS1-154	Cover/Cast OLE Pole Foundations	26-Apr-11	3	04-May-11	0%	2011	03
1C-16A-SAS1-239	Make good Formation with Type 1 (Ave 220mm)	26-Apr-11	2	03-May-11	0%	2011	03
1C-16A-SAS1-370	Installation of IMU Drains and Cable Ducting	04-May-11	2	05-May-11	0%	2011	03
1C-16A-SAS1-171	Carry out inspection and testing of Subgrade	06-May-11	1	06-May-11	0%	2011	03
1C-16A-SAS1-172	Binding Concrete	08-May-11	2	10-May-11	0%	2011	03
1C-16A-SAS1-163	Place RC improvement slab (+ curb lag)	11-May-11	6	16-May-11	0%	2011	03
1C-16A-SAS1-174	Access for Track Laying	23-May-11	0	0	0%	2011	03
1C-16A-SAS1-175	Installation of Noise & Vibration Mat (if reqd)	23-May-11	0	0	0%	2011	03
1C-16A-TRCK-70	Set track (x1180m) (sleepers)	23-May-11	8	02-Jun-11	0%	2011	03
1C-16A-SAS1-257	Welding & Grouting	24-May-11	6	01-Jun-11	0%	2011	03
1C-16A-SAS1-256	Damage / Rail Connections	24-May-11	6	01-Jun-11	0%	2011	03
1C-16A-SAS1-249	Installation of IMU Boxes and Loops	24-May-11	6	01-Jun-11	0%	2011	03
1C-16A-SAS1-380	Rail Rail Alignment - Check and Approve	25-May-11	6	02-Jun-11	0%	2011	03
1C-16A-SAS1-241	230mm Concrete Supporting Layer (+ curb lag)	27-May-11	6	06-Jun-11	0%	2011	03
Phase 2 - Outbound SSAS + PS							
237	Phase 2 - Outbound SSAS + PS	20-Apr-11	37	14-Jun-11	0%	2011	03
1C-16A-SAS1-288	Damage & Ducts	20-Apr-11	3	25-Apr-11	0%	2011	03
1C-16A-SAS1-169	Damage to Ditching Points	25-Apr-11	14	13-May-11	0%	2011	03
1C-16A-SAS1-360	Traction Ducts & Chambers	28-Apr-11	0	0	0%	2011	03
1C-16A-SAS1-167	Comms Ducts & Chambers	29-Apr-11	11	16-May-11	0%	2011	03
1C-16A-SAS1-162	Traction Signal Ducts	15-May-11	7	24-May-11	0%	2011	03
1C-16A-SAS1-153	Lighting Ducts	16-May-11	21	14-Jun-11	0%	2011	03
Phase 3 - Pavement Construction over tracks							
242	Phase 3 - Pavement Construction over tracks	08-Jun-11	8	17-Jun-11	0%	2011	03
1C-16A-SAS1-173	Setts	08-Jun-11	5	14-Jun-11	0%	2011	03
1C-16A-SAS1-224	150mm Blot	14-Jun-11	3	15-Jun-11	0%	2011	03

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Actual Work Remaining Work % Complete

ETN Updated Programme - Progress to 18 Mar 11

Checked Approved

11-Mar-11 JAC

Summary

Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
1C-18A-SAS1-265 35mm Wearing Course	16-Jun-11	1	16-Jun-11	0%	2011
1C-18A-SAS1-266 15mm Surface Treatment	17-Jun-11	1	17-Jun-11	0%	2011
Carrageway Construction					
177 Carrageway Construction	26-Apr-11	49	08-Jul-11	0%	2011
1C-18A-SAS1-178 Sub-base 220mm all Carrageway areas (continuous and swcs)	26-Apr-11	3	04-May-11	0%	2011
1C-18A-SAS1-179 Kerbing	07-Jun-11	10	20-Jun-11	0%	2011
1C-18A-SAS1-181 Signs / Street Furniture	09-Jun-11	5	15-Jun-11	0%	2011
1C-18A-SAS1-180 Gullies	15-Jun-11	5	21-Jun-11	0%	2011
1C-18A-SAS1-182 Sub-base slope all Carrageway areas	21-Jun-11	4	24-Jun-11	0%	2011
1C-18A-SAS1-183 Traffic Signals	21-Jun-11	14	08-Jul-11	0%	2011
1C-18A-SAS1-184 Footpath Works	21-Jun-11	13	07-Jul-11	0%	2011
1C-18A-SAS1-185 SME	27-Jun-11	2	28-Jun-11	0%	2011
1C-18A-SAS1-286 225mm Blase	28-Jun-11	1	28-Jun-11	0%	2011
1C-18A-SAS1-187 60mm Blinder	30-Jun-11	1	30-Jun-11	0%	2011
1C-18A-SAS1-188 35mm Wearing Course	07-Jun-11	164	06-Feb-12	0%	2012
Phase 2 - Outbound SSAS					
183 Phase 2 - Outbound SSAS	07-Jun-11	164	06-Feb-12	0%	2012
1C-18C-SAS2-200 Plane Main Carrageway 250mm	14-Jun-11	4	17-Jun-11	0%	2011
1C-18C-SAS2-198 Excavate Formation for Carrageway and Track (incl for Support Joints)	26-Jun-11	5	24-Jun-11	0%	2011
1C-18C-SAS2-199 Remove existing kerbs to store	26-Jun-11	5	24-Jun-11	0%	2011
1C-18C-SAS2-203 Check suitability of formation (ongoing)	26-Jun-11	0		0%	2011
1C-18C-SAS2-201 Capping Layer to Adjacent Carrageway (60mm)	26-Jun-11	5	24-Jun-11	0%	2011
1C-18C-SAS2-202 Make good Formation with Type 1 (Ave 220mm)	27-Jun-11	2	28-Jun-11	0%	2011
1C-18C-SAS2-203 Installation of IMU Drains and Cable Ducting	29-Jun-11	2	30-Jun-11	0%	2011
1C-18C-SAS2-204 Carry out inspection and testing of Subgrade	01-Jul-11	1	01-Jul-11	0%	2011
1C-18C-SAS2-205 Binding Concrete	04-Jul-11	2	05-Jul-11	0%	2011
1C-18C-SAS2-206 Place RC Improvement Slab (+ cure lag)	06-Jul-11	5	12-Jul-11	0%	2011
1C-18C-SAS2-207 Access for Track Laying	15-Jul-11	0		0%	2011
1C-18C-SAS2-208 Installation of Noise & Vibration Mat (if reqd)	15-Jul-11	0		0%	2011
1C-18C-TRC2-70 Set track (1x12m)(sleepers all) + mch	15-Nov-11	9	28-Nov-11	0%	2011
1C-18C-SAS2-210 Welding & Grinding	16-Nov-11	5	23-Nov-11	0%	2011
1C-18C-SAS2-211 Drainage / Rail Connections	16-Nov-11	5	23-Nov-11	0%	2011
1C-18C-SAS2-212 Installation of IMU Boxes and Leaps	16-Nov-11	5	23-Nov-11	0%	2011
1C-18C-SAS2-213 Final Rail Alignment - Check and Approve	17-Nov-11	5	24-Nov-11	0%	2011
1C-18C-SAS2-214 200mm Concrete Supporting Layer (+ cure lag)	21-Nov-11	5	28-Nov-11	0%	2011
1C-18C-SAS2-232 Rail/Carrageway Joint - Sealing Compound	25-Jan-12	4	31-Jan-12	0%	2012
Damage & Ducts					
191 Damage & Ducts	07-Jun-11	32	20-Jul-11	0%	2011
1C-18C-SAS2-192 Outfall Connectors	07-Jun-11	2	08-Jun-11	0%	2011
1C-18C-SAS2-193 Damage to Discharge Points	26-Jun-11	2	21-Jun-11	0%	2011
1C-18C-SAS2-196 Traffic Signal Ducts	22-Jun-11	7	30-Jun-11	0%	2011
1C-18C-SAS2-197 Lighting Ducts	22-Jun-11	21	20-Jul-11	0%	2011
1C-18C-SAS2-194 Traction Ducts & Chambers	27-Jun-11	11	11-Jul-11	0%	2011
1C-18C-SAS2-195 Comms Ducts & Chambers	27-Jun-11	0		0%	2011

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Legend:
█ Actual Work
█ Critical Remaining Work
█ Remaining Work
█ Milestone
█ % Complete
█ Summary

Date: 11-Mar-11
 Revision: ETN Updated Programme - Progress to 18 Mar 11
 Checked: JAC
 Approved:

Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity Name	Start	Original Duration	Actual % Complete	Year
215				
IC-18C-SAS2-216	26-Nov-11	24	15-Jun-12	0%
SAS2	26-Nov-11	4	10-Jun-12	0%
IC-18C-SAS2-217	10-Jan-12	2	12-Jan-12	0%
15mm Wearing Course	13-Jan-12	1	15-Jan-12	0%
IC-18C-SAS2-218	15-Jan-12	1	15-Jan-12	0%
15mm Surface Treatment	15-Jan-12	1	15-Jan-12	0%
250				
IC-18C-SAS2-221	27-Jun-11	150	08-Feb-12	0%
Carriageway Construction	27-Jun-11	3	25-Jun-11	0%
IC-18C-SAS2-222	28-Nov-11	10	17-Jan-12	0%
kerbing	30-Nov-11	5	12-Jun-12	0%
IC-18C-SAS2-224	17-Jan-12	1	18-Jan-12	0%
Signs / Street Furniture	17-Jan-12	1	18-Jan-12	0%
IC-18C-SAS2-225	17-Jan-12	1	18-Jan-12	0%
Sub-base shape at carriageway areas	17-Jan-12	4	23-Jan-12	0%
IC-18C-SAS2-226	17-Jan-12	4	23-Jan-12	0%
Traffic Signals	17-Jan-12	14	06-Feb-12	0%
IC-18C-SAS2-227	17-Jan-12	13	03-Feb-12	0%
Roadgan Works	18-Jan-12	2	23-Jun-12	0%
IC-18C-SAS2-228	23-Jun-12	1	24-Jun-12	0%
225mm Base	23-Jun-12	1	25-Jun-12	0%
IC-18C-SAS2-229	23-Jun-12	1	25-Jun-12	0%
60mm Blinder	12-Jun-11	175	26-Mar-12	11%
IC-18C-SAS2-231	13-Jun-11	175	26-Mar-12	0%
Temporary Works for bus route	13-Jun-11	5	19-Jul-11	0%
IC-18C-SAS2-265	23-Nov-11	3	28-Nov-11	0%
Construct bridge support foundations	23-Nov-11	2	30-Nov-11	0%
IC-18C-SAS2-266	30-Nov-11	1	01-Dec-11	0%
Install bridge unit & anchors	13-Mar-12	1	13-Mar-12	0%
IC-18C-SAS2-267	14-Mar-12	4	19-Mar-12	0%
Surfacing to suit	26-Mar-12	9	26-Mar-12	0%
IC-18C-SAS2-268	01-Dec-11	61	09-Mar-12	83%
Signs and Markings	01-Dec-11	61	09-Mar-12	0%
IC-18C-SAS2-269	01-Dec-11	1	09-Mar-12	0%
Remove bridge	01-Dec-11	1	09-Mar-12	0%
IC-18C-SAS2-304	01-Dec-11	1	09-Mar-12	0%
Demolish bridge foundations	01-Dec-11	2	10-Jan-12	0%
IC-18C-SAS2-345	06-Jan-12	2	11-Jan-12	0%
Make good and clear site	06-Jan-12	2	11-Jan-12	0%
IC-18C-SAS2-351	06-Jan-12	2	11-Jan-12	0%
Investigate services / utility positions / in-line/outer positions / levels	06-Jan-12	2	11-Jan-12	0%
Phase 3 - FS Outbound	06-Jan-12	2	11-Jan-12	0%
343				
IC-18D-SAS3-277	06-Jan-12	44	09-Mar-12	0%
Outbound	06-Jan-12	44	09-Mar-12	0%
IC-18D-SAS3-278	06-Jan-12	1	10-Jan-12	0%
Align Main Carriageway 250mm	10-Jan-12	3	10-Jan-12	0%
IC-18D-SAS3-285	10-Jan-12	2	10-Jan-12	0%
Excavate to Formwork for Carriageway and Track (incl for Capping Type 1)	10-Jan-12	2	10-Jan-12	0%
IC-18D-SAS3-278	10-Jan-12	2	10-Jan-12	0%
Remove existing beds to store	10-Jan-12	6	10-Jan-12	0%
IC-18D-SAS3-287	10-Jan-12	0		0%
Check suitability of formation (ongoing)	11-Jan-12	31	23-Feb-12	0%
IC-18D-SAS3-288	13-Jan-12	3	12-Jan-12	0%
Capping Layer to Adjacent Carriageway (900mm)	13-Jan-12	31	23-Feb-12	0%
IC-18D-SAS3-284	13-Jan-12	1	16-Jan-12	0%
Core/Cast CLE Pole Foundations	13-Jan-12	1	16-Jan-12	0%
IC-18D-SAS3-279	13-Jan-12	1	16-Jan-12	0%
Make good Formation with Type 1 (Ave 200mm)	16-Jan-12	1	17-Jan-12	0%
IC-18D-SAS3-410	17-Jan-12	1	18-Jan-12	0%
Installation of IMJ Drains and Cable Ducting	17-Jan-12	1	18-Jan-12	0%
IC-18D-SAS3-271	18-Jan-12	1	18-Jan-12	0%
Carry out inspection and testing of Subgrade	18-Jan-12	1	18-Jan-12	0%
IC-18D-SAS3-282	18-Jan-12	1	18-Jan-12	0%
Blinding Concrete	18-Jan-12	1	18-Jan-12	0%
IC-18D-SAS3-283	18-Jan-12	1	18-Jan-12	0%
Place PC Improvement Slab (+ cure lag)	18-Jan-12	1	18-Jan-12	0%

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Actual Work Remaining Work

11-Mar-11 ETN Updated Programme - Progress to 18 Mar 11

Approved JAC

100% Complete Summary

Update Programme

Updated for V67 Design Programme,

and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity Name	Start	Original Duration	Activity % Complete	Year
1C-18D-SAS3-284	24-Jan-12	0	0%	10
1C-18D-SAS3-305	24-Jan-12	0	0%	10
1C-18D-TRCK-70	31-Jan-12	7	0%	10
1C-18D-SAS3-297	01-Feb-12	2	0%	10
1C-18D-SAS3-298	01-Feb-12	2	0%	10
1C-18D-SAS3-289	01-Feb-12	2	0%	10
1C-18D-SAS3-420	03-Feb-12	2	0%	120
1C-18D-SAS3-291	07-Feb-12	2	0%	120
1C-18D-SAS3-308	25-Feb-12	4	0%	565
Change & Ducts				
269	09-Jan-12	39	0%	595
1C-18D-SAS3-400	09-Jan-12	1	0%	608
1C-18D-SAS3-261	11-Jan-12	4	0%	600
1C-18D-SAS3-262	17-Jan-12	2	0%	606
1C-18D-SAS3-263	17-Feb-12	11	0%	101
Finalize Construction				
272	15-Feb-12	3	0%	607
1C-18D-SAS3-273	15-Feb-12	1	0%	587
1C-18D-SAS3-274	16-Feb-12	1	0%	587
1C-18D-SAS3-275	17-Feb-12	1	0%	587
Construction				
286	12-Jan-12	41	0%	597
1C-18D-SAS3-307	12-Jan-12	1	0%	114
1C-18D-SAS3-318	08-Feb-12	6	0%	101
1C-18D-SAS3-430	13-Feb-12	5	0%	585
1C-18D-SAS3-299	16-Feb-12	2	0%	592
1C-18D-SAS3-321	17-Feb-12	1	0%	592
1C-18D-SAS3-292	17-Feb-12	2	0%	585
1C-18D-SAS3-294	20-Feb-12	1	0%	595
1C-18D-SAS3-335	21-Feb-12	1	0%	595
1C-18D-SAS3-309	22-Feb-12	1	0%	595
1C-18D-SAS3-317	23-Feb-12	4	0%	595
1C-18D-SAS3-293	26-Feb-12	4	0%	587
1C-18D-SAS3-470	05-Mar-12	5	0%	101
1C-18D-SAS3-471	15-Mar-12	47	0%	629
1C-18B-SAS4-460	12-Mar-12	47	0%	554
1C-18B-SAS4-341	12-Mar-12	1	0%	101
1C-18B-AVC-60	13-Mar-12	2	0%	118
1C-18C-AVC-50	17-Apr-12	8	0%	629
1C-18C-AVC-50	27-Apr-12	14	0%	629
Outbound				
322	27-Mar-12	17	0%	633
1C-18E-SAS4-440	27-Mar-12	19	0%	569
1C-18E-SAS4-440	16-Apr-12	1	0%	544
293	11-Apr-12	3	0%	564

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Actual Work Remaining Work Critical Remaining Work

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Revision

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Summary

Activity	Activity Name	Start	Original Duration	Final	Activity % Complete	Year
Construction	1C-1BBSAS4-324	11-Apr-12	1	11-Apr-12	0%	544
	1C-1BBSAS4-325	12-Apr-12	1	12-Apr-12	0%	544
	1C-1BBSAS4-326	13-Apr-12	1	13-Apr-12	0%	544
	Construction					
	327	27-Mar-12	18	30-Apr-12	0%	559
	1C-1BBSAS4-328	27-Mar-12	1	27-Mar-12	0%	101
	1C-1BBSAS4-309	28-Mar-12	8	08-Apr-12	0%	101
	1C-1BBSAS4-332	30-Mar-12	5	05-Apr-12	0%	546
	1C-1BBSAS4-303	05-Apr-12	3	10-Apr-12	0%	544
	1C-1BBSAS4-331	09-Apr-12	2	10-Apr-12	0%	544
Commissioning and Testing	1C-1BBSAS4-450	10-Apr-12	3	12-Apr-12	0%	101
	1C-1BBSAS4-334	10-Apr-12	0		0%	546
	1C-1BBSAS4-336	10-Apr-12	1	10-Apr-12	0%	545
	1C-1BBSAS4-337	11-Apr-12	1	11-Apr-12	0%	545
	1C-1BBSAS4-338	12-Apr-12	1	12-Apr-12	0%	545
	1C-1BBSAS4-305	12-Apr-12	6	20-Apr-12	0%	101
	1C-1BBSAS4-319	13-Apr-12	1	13-Apr-12	0%	653
	Commissioning and Testing					
	1C-16SAS-223	23-Apr-12	0	23-Apr-12	101	
	1C-16SAS-223	23-Apr-12	0	23-Apr-12	0%	101
31D Princess Street (inc) to Haymarket (exc)						
39	01D Princess Street (inc) to Haymarket (exc.)	05-Jun-09 A	177h	15-Nov-13	45.16%	266
E & M Installation						
1D-15-04LE-30	Access for visual inspection for EM wayside installation PST - SHP	31-Jan-12	0		0%	547
1D-15-04LE-31	Access for EM wayside installation PST - SHP	26-Feb-12	0		0%	487
1D-14-04LE-30	Access for visual inspection for EM wayside installation SHP - HAY	12-Jul-12	0		0%	427
1D-14-04LE-30	Access for visual inspection to cable pits for cable laying SHP - HAY	26-Jun-12	0		0%	417
1D-1415-04LE-503	Installation of poles and building fittings - 10 (13.0037 - 20.0022)	16-Sep-12	10	03-Oct-12	0%	373
1D-14-04LE-31	Access for EM wayside installation SHP - HAY	18-Sep-12	0		0%	378
1D-1415-04LE-603	Overhead Catenary Line - 10 (13.0037 - 20.0022 + 13.0731 - 12.0810)	02-Oct-12	22	01-Nov-12	0%	373
1D-14-04LE-31	Access to cable pits for cable laying SHP - HAY	03-Oct-12	0		0%	273
1D-15-04LE-30	Access for visual inspection to cable pits for cable laying PST - SHP	15-Oct-12	0		0%	387
1D-14-SIGN-40	Installation of SIG-interlocking cable SHP	15-Oct-12	15	06-Nov-12	0%	395
1D-14-SIGN-80	Installation of SIG-equipment on crossover SHP	30-Oct-12	5	06-Nov-12	0%	395
1D-14-SIGN-80	Commissioning of SIG - interlocking cable SHP	06-Nov-12	5	13-Nov-12	0%	395
1D-1415-TELE-70	Install Fibre Optic Cables PST - SHP - HAY	13-Nov-12	8	23-Nov-12	0%	356
1D-15-SIGN-60	Install Signaling Wayside Equipment PST - SHP	13-Nov-12	9	26-Nov-12	0%	352
1D-15-04LE-31	Access to cable pits for cable laying PST - SHP	13-Nov-12	0		0%	342
1D-1616-TELE-60	Install Fibre Optic Cables SAS - PST - SHP	23-Nov-12	7	09-Jan-13	0%	350
1D-14-SIGN-60	Install Signaling Wayside Equipment SHP - HAY	26-Nov-12	6	09-Jan-13	0%	350
1D-1617-TELE-60	Install Electrical Cables CAE - HIE	16-Oct-13	23	15-Nov-13	0%	178
Princess Street West (inc) to Shallowford (exc)						
40	Princess Street West (inc) to Shallowford Place (exc.)	05-Jun-09 A	71h	23-Nov-11	97.35%	600
Readworks						
12270	Issue Construction Drawings	05-Jan-09 A	71h	23-Nov-11		675
Princess Street Ch.290.0-1900-1900						
		05-Jan-09 A	33h	11-Feb-09 A	100%	

Legend: █ Actual Work █ Critical Remaining Work █ % Complete █ Remaining Work █ Milestone ◆ Summary

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Date: 11-Mar-11

Revision: EITN Updated Programme - Progress to 18 Mar 11

Checked: JAC

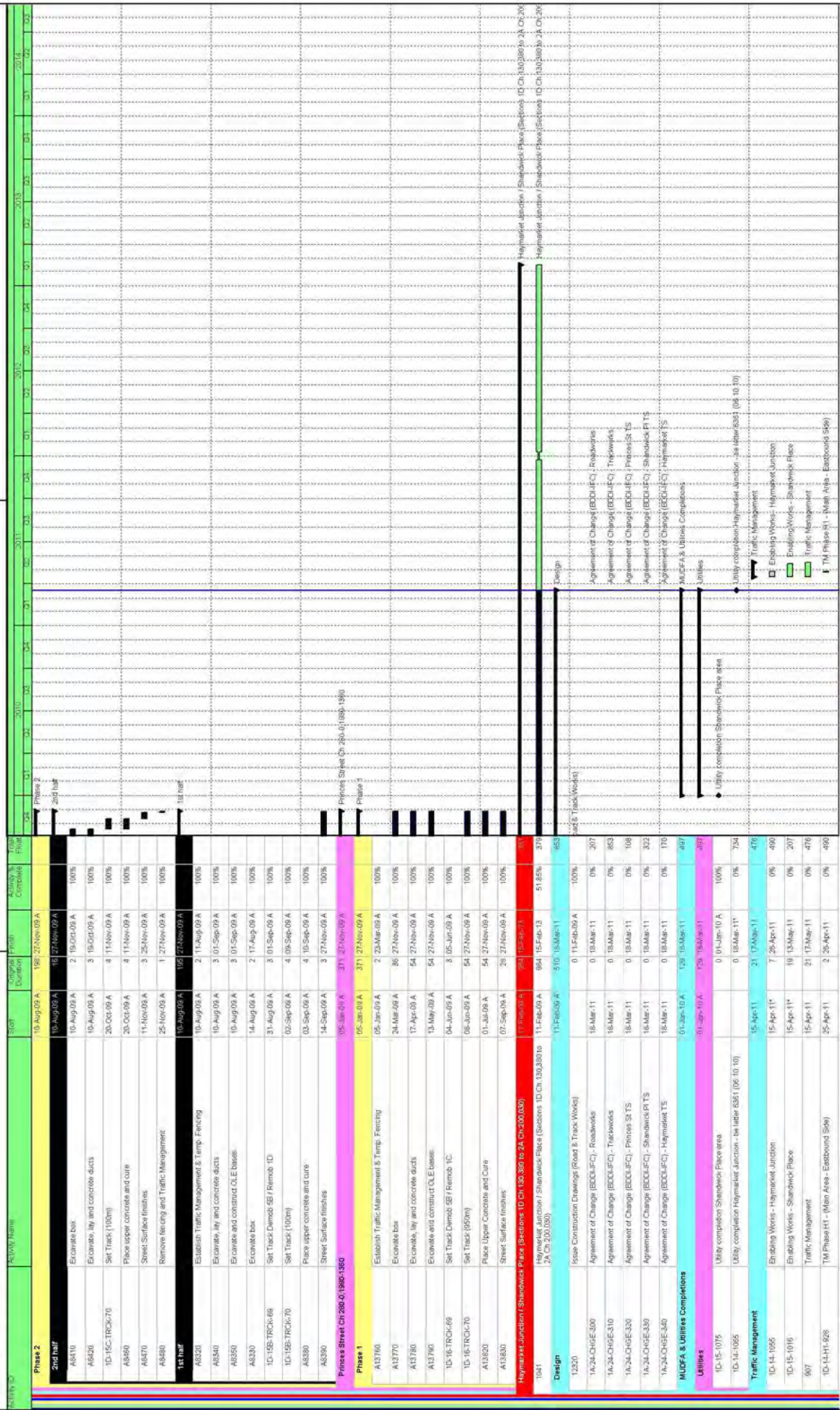
Approved:

Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year	Phase
South Channel							
A13940	Establish Traffic Management & Temp. Fencing	05-Jan-09 A	360	274-Nov-09 A	100%	2009	03
A13950	Excavate South kerbside	05-Jan-09 A	2	23-Mar-09 A	100%	2009	03
A13960	Relay South kerbs	07-Sep-09 A	19	27-Nov-09 A	100%	2009	03
A13970	Reset Cullies	07-Sep-09 A	49	27-Nov-09 A	100%	2009	03
A13980	Plane out wearing course	07-Sep-09 A	49	27-Nov-09 A	100%	2009	03
A13990	Resurface road	07-Sep-09 A	10	27-Nov-09 A	100%	2009	03
A14000	Pavement (1m strip)	07-Sep-09 A	49	27-Nov-09 A	100%	2009	03
A14020	Street Lighting / Road signs	25-Nov-09 A	5	27-Nov-09 A	100%	2009	03
A14010	White Lines	25-Nov-09 A	1	27-Nov-09 A	100%	2009	03
A14030	Remove fencing and Traffic Management	27-Nov-09 A	3	27-Nov-09 A	100%	2009	03
North Channel							
A13840	Establish Traffic Management & Temp. Fencing	05-Jan-09 A	353	27-Nov-09 A	100%	2009	03
A13850	Excavate North kerbside	05-Jan-09 A	2	23-Mar-09 A	100%	2009	03
A13860	Relay North kerbs	13-Jul-09 A	19	27-Nov-09 A	100%	2009	03
A13870	Reset Cullies	07-Sep-09 A	49	27-Nov-09 A	100%	2009	03
A13880	Resurface road	07-Sep-09 A	7	27-Nov-09 A	100%	2009	03
A13900	Pavement (1m strip)	07-Sep-09 A	49	27-Nov-09 A	100%	2009	03
A13890	Plane out wearing course	07-Sep-09 A	10	27-Nov-09 A	100%	2009	03
A13920	Street Lighting / Road signs	23-Nov-09 A	5	27-Nov-09 A	100%	2009	03
A13910	White Lines	25-Nov-09 A	1	27-Nov-09 A	100%	2009	03
A13930	Remove fencing and Traffic Management	27-Nov-09 A	1	27-Nov-09 A	100%	2009	03
Leithan Road Junction Ch 440-280							
Phase 1							
A8250	Establish Traffic Management & Temp. Fencing	05-Jan-09 A	93	30-Mar-09 A	100%	2009	03
A8260	Take down permanent traffic signs / signals	05-Jan-09 A	5	30-Mar-09 A	100%	2009	03
A8280	Subbase	05-Jan-09 A	2	30-Mar-09 A	100%	2009	03
A8290	Temporary surfacing	05-Jan-09 A	3	30-Mar-09 A	100%	2009	03
A8300	Temporary Traffic signals / signs / white lines	05-Jan-09 A	5	30-Mar-09 A	100%	2009	03
A8270	Excavate traffic islands	05-Jan-09 A	3	30-Mar-09 A	100%	2009	03
A8310	Remove fencing and Traffic Management	05-Jan-09 A	1	30-Mar-09 A	100%	2009	03
Phase 2							
A8400	Establish Traffic Management & Temp. Fencing	27-Oct-11	19	23-Nov-11	66%	2011	03
A8500	Excavate North kerbside	27-Oct-11	2	31-Oct-11	0%	2011	03
A8510	Relay North kerbs	31-Oct-11	2	07-Nov-11	0%	2011	03
A8520	Reset Cullies	04-Nov-11	5	14-Nov-11	0%	2011	03
A8530	Pavement (1m strip)	07-Nov-11	5	14-Nov-11	0%	2011	03
A8540	Street Lighting / Road signs	14-Nov-11	5	18-Nov-11	0%	2011	03
A8550	Plane out wearing course	14-Nov-11	3	22-Nov-11	0%	2011	03
A8560	Resurface road	15-Nov-11	3	21-Nov-11	0%	2011	03
A8570	White Lines	21-Nov-11	1	22-Nov-11	0%	2011	03
A8580	Remove fencing and Traffic Management	22-Nov-11	1	22-Nov-11	0%	2011	03
Trackworks (70m)							
12280	Issue Construction Drawings	05-Jan-09 A	-110	27-Nov-09 A	100%	2009	03
Leithan Road Junction Ch 440-280							
116-Aug-09 A 194 27-Nov-09 A							

Legend:
█ Actual Work
█ Critical Remaining Work
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█ Milestone
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 Approved:



Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year Picked
TD-15-SPI-655	TM Phase Ch. 130,960 - 130,380 (Princes Street - Princes Street)	16-May-11	2	17-May-11	0%	2011
Phases SPI 2,3,4,5,6,7 Ch.130,960 - 130,380 (Princes Street - Princes Street)		17-May-11	384	27-May-12	43%	2011-12
488	Phases SPI 2,3,4,5,6,7 Ch.130,960 - 130,380 (Princes Street - Princes Street)	17-May-11	384	27-May-12	0%	43%
Section Wide						
TD-1675-463	Erect Pedestrian Barrier	17-May-11	337	21-Sep-12	41%	2011
TD-1675-730	Protect Dwarf Walls (Used Monuments)	24-May-11	0		0%	164
TD-1675-501	Tree Removal	24-May-11	8	31-May-11	0%	164
TD-1675-502	Site Clearance & Site Compound	24-May-11	20	22-Jun-11	0%	645
TD-1675-463	Investigate services / utility positions / infra-utility positions / levels	24-May-11	4	31-May-11	0%	155
TD-1675-INC5-00	Installation of traffic light control - Junction 41	14-Aug-12	11	28-Aug-12	0%	493
TD-1675-INC5-70	Installation of traffic light control - Junction 42	29-Aug-12	5	06-Sep-12	0%	488
TD-1675-INC5-80	Installation of traffic light control - Junction 43	05-Sep-12	4	11-Sep-12	0%	484
TD-1675-INC5-90	Installation of traffic light control - Junction 44	11-Sep-12	9	18-Sep-12	0%	478
TD-1675-INC5-100	Installation of traffic light control - Junction 45	16-Sep-12	3	21-Sep-12	0%	475
Phase SPI 1 - Inbound Ch. 130,670 - 130,380 (Creascents to Princes Street)						
494	Phase SPI 1 - Inbound Ch. 130,670 - 130,380 (Creascents to Princes Street)	26-May-11	109	25-Oct-11	0%	693
TD-140-SPI-695	Place Main Carriageway 250mm	31-May-11	4	08-Jul-11	0%	164
TD-140-SPI-514	Core/Cast OLE Pole Foundations	31-May-11	5	07-Jun-11	0%	334
TD-140-SPI-516	Excavate to Formation for Carriageway and Track (incl for Sleepers/Joints)	06-Jun-11	13	23-Jun-11	0%	164
TD-140-SPI-487	Remove existing leads	06-Jun-11	13	23-Jun-11	0%	644
TD-140-SPI-488	Check suitability of formation (ongoing)	06-Jun-11	0		0%	174
TD-140-SPI-489	Capping Layer to Adjacent Carriageway (600mm)	16-Jun-11	5	25-Jun-11	0%	166
TD-140-SPI-520	Make good Formation with Type 1 (Ave 230mm)	23-Jun-11	2	27-Jun-11	0%	164
TD-140-SPI-511	Installation of MU Drains and Cable Ducting	27-Jun-11	2	28-Jun-11	0%	164
TD-140-SPI-512	Carry out inspection and testing of Subgrade	29-Jun-11	1	30-Jun-11	0%	164
TD-140-SPI-513	Binding Concrete	30-Jun-11	4	06-Jul-11	0%	164
TD-140-SPI-564	250mm RC Improvement Slab (+ core lag)	06-Jul-11	9	18-Jul-11	0%	164
TD-140-SPI-565	Access for Track Laying	20-Jul-11	0		0%	164
TD-140-TRC6-7063	Installation of Noise & Vibration Mat (if reqd)	20-Jul-11	0		0%	164
TD-140-SPI-598	Set track (1x250mm) (sleepers) + m/c	20-Jul-11	14	13-Sep-11	0%	164
TD-140-SPI-499	Welding & Grinding	21-Jul-11	8	06-Sep-11	0%	292
TD-140-SPI-330	Drainage / Rail Connections	21-Jul-11	8	06-Sep-11	0%	292
TD-140-SPI-521	Installation of MU Boxes and Leads	21-Jul-11	8	06-Sep-11	0%	164
TD-140-SPI-522	Final Rail Alignment - Check and Approve	22-Jul-11	8	07-Sep-11	0%	286
TD-140-SPI-555	200mm Concrete Supporting Layer (+ core lag)	26-Jul-11	10	13-Sep-11	0%	605
TD-140-SPI-523	OLE Wall Fixings Inbound	13-Sep-11	6	21-Sep-11	0%	596
TD-140-SPI-487	Mt Rail Joint / Sealing Compound	05-Oct-11	5	13-Oct-11	0%	705
TD-140-SPI-478	Drainage & Ducts	26-May-11	88	27-Sep-11	0%	705
TD-140-SPI-479	Outfall Connections	26-May-11	5	03-Jun-11	0%	155
TD-140-SPI-480	Drainage to Discharge Points	06-Jun-11	14	24-Jun-11	0%	331
TD-140-SPI-481	Traction Ducts & Chambers	23-Jun-11	0		0%	183
TD-140-SPI-479	Comms Ducts & Chambers	23-Jun-11	17	18-Jul-11	0%	166
TD-140-SPI-492	Aco Channel	24-Jun-11	3	26-Jun-11	0%	640
TD-140-SPI-492	Traffic Signal Ducts	24-Jun-11	4	30-Jun-11	0%	630

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Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

Activity ID	Activity Name	Start	Complete	Final	Activity % Complete	Year
		Duration				Start
TD-140-SP1-483	Lighting Ducts	25-Sep-11	27-Sep-11		0%	2011
Crescent						
503	Crescent	27-Sep-11	28-Oct-11		35%	2011
TD-140-SP1-504	Excavate existing junction	27-Sep-11	28-Oct-11		0%	2011
TD-140-SP1-515	Relining	28-Sep-11	10-Oct-11		0%	2011
TD-140-SP1-506	Sealed Area	19-Oct-11	8-Nov-11		0%	2011
TD-140-SP1-507	Footpath	20-Oct-11	9-Nov-11		0%	2011
Pavement Construction over tracks						
588	Pavement Construction over tracks	26-Sep-11	6-Oct-11		68%	2011
TD-140-SP1-519	124mm Blot	20-Sep-11	9-Oct-11		0%	2011
TD-140-SP1-550	35mm Wearing Course	28-Sep-11	1-Nov-11		0%	2011
TD-140-SP1-601	15mm Surface Treatment	26-Sep-11	2-Nov-11		0%	2011
Phase SP1 Carriageway Construction						
862	Phase SP1 Carriageway Construction	23-Jun-11	73-Oct-11		66%	2011
TD-140-SP1-1003	Sub-base 220mm all carriageway areas	23-Jun-11	4-Jun-11		0%	2011
TD-140-SP1-1004	kerbing - Eastbound/Landside/Crossings	19-Sep-11	8-Sep-11		0%	2011
TD-140-SP1-1006	Signs / Street Furniture	15-Sep-11	5-Sep-11		0%	2011
TD-140-SP1-097	Sub-base slope all carriageway areas	21-Sep-11	8-Sep-11		0%	2011
TD-140-SP1-1035	Gullies	22-Sep-11	2-Sep-11		0%	2011
TD-140-SP1-1008	Traffic Signals	23-Sep-11	0		0%	2011
TD-140-SP1-099	Footpath Works	28-Sep-11	9-Oct-11		0%	2011
TD-140-SP1-1190	25mm Blot	23-Sep-11	5-Sep-11		0%	2011
TD-140-SP1-1021	60mm Binder	30-Sep-11	2-Oct-11		0%	2011
TD-140-SP1-092	35mm Wearing Course	04-Oct-11	1-Oct-11		0%	2011
Phase SP3 - Outbound Ch 130.670 - 130.930 (Crescents to Priests Street)						
557	Phase SP3 - Outbound Ch 130.670 - 130.930 (Crescents to Priests Street)	25-Oct-11	21-Nov-12		5%	2011
TD-140-SP3-588	Plane Main Carriageway 250mm	25-Oct-11	27-Oct-11		0%	2011
TD-140-SP3-578	Core/Cast GLE Pole Foundations	25-Oct-11	4-Oct-11		0%	2011
TD-140-SP3-579	Excavate to Formation for Carriageway and Tracks (incl for Capping Type 1)	27-Oct-11	9-Nov-11		0%	2011
TD-140-SP3-580	Remove existing joints	27-Oct-11	8-Nov-11		0%	2011
TD-140-SP3-581	Check suitability of formation (ongoing)	27-Oct-11	0		0%	2011
TD-140-SP3-582	Capping Layer to Adjacent Carriageway (600mm)	26-Oct-11	5-Nov-11		0%	2011
TD-140-SP3-583	Make good Formation with Type 1 (Ave 220mm)	08-Nov-11	1-Nov-11		0%	2011
TD-140-SP3-584	Installation of IMJ Drains and Cable Ducting	10-Nov-11	3-Nov-11		0%	2011
TD-140-SP3-585	Carry out inspection and testing of Subgrade	14-Nov-11	15-Nov-11		0%	2011
TD-140-SP3-586	Binding Concrete	15-Nov-11	4-Nov-11		0%	2011
TD-140-SP3-587	250mm RC Improvement Slab (+ cure lag)	21-Nov-11	8-Dec-11		0%	2011
TD-140-SP3-588	Access for Track Laying	18-Jan-12	0		0%	2012
TD-140-SP3-589	Installation of Noise & Vibration Mit (if reqd)	08-Feb-12	0		0%	2012
TD-140-TRCK-1053	Set track (x250mm (steep-sloped)) + mob	06-Feb-12	14-Feb-12		0%	2012
TD-140-SP3-590	Welding & Grinding	10-Feb-12	8-Feb-12		0%	2012
TD-140-SP3-591	Dredging / Rail Connections	10-Feb-12	8-Feb-12		0%	2012
TD-140-SP3-592	Installation of IMJ Boxes and Loops	10-Feb-12	8-Feb-12		0%	2012
TD-140-SP3-593	Final Rail Alignment - Check and Approve	13-Feb-12	8-Feb-12		0%	2012
TD-140-SP3-594	250mm Concrete Supporting Layer (+ cure lag)	15-Feb-12	10-Feb-12		0%	2012

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Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
1D-14P-SF3-577	O.E. Wall Fixings Outbound	26-Feb-12	6	08-Mar-12	0%	513													
1D-14P-SF3-618	M6 Ball Joint / Sealing Compound	26-Mar-12	6	03-Apr-12	0%	495													
Drainage & Ducts																			
569	Damage & Ducts	27-Oct-11	97	26-Mar-12	0%	571													
1D-14P-SF3-570	Outlet Connections	27-Oct-11	4	07-Nov-11	0%	334													
1D-14P-SF3-571	Drainage to Discharge Points	07-Nov-11	13	24-Nov-11	0%	334													
1D-14P-SF3-572	Traction Ducts & Chambers	08-Nov-11	24	18-Jun-12	0%	289													
1D-14P-SF3-573	Comms Ducts & Chambers	08-Nov-11	0	30-Nov-11	0%	313													
1D-14P-SF3-574	Traffic Signal Ducts	24-Nov-11	4	30-Nov-11	0%	549													
1D-14P-SF3-575	Lighting Ducts	14-Mar-12	8	26-Mar-12	0%	273													
Crescent																			
866	Crescent	26-Mar-12	22	26-Apr-12	0%	316													
1D-14P-SF3-826	Excavate existing junction	26-Mar-12	1	27-Mar-12	0%	273													
1D-14P-SF3-807	kerbing	27-Mar-12	10	11-Apr-12	0%	273													
1D-14P-SF3-818	Salised Area	11-Apr-12	7	20-Apr-12	0%	273													
1D-14P-SF3-809	Floodpath	26-Apr-12	4	26-Apr-12	0%	273													
Pavement Construction over tracks																			
1010	Pavement Construction over tracks	07-Mar-12	6	15-Mar-12	0%	597													
1D-14P-SF3-821	120mm Binder	07-Mar-12	6	15-Mar-12	0%	587													
1D-14P-SF3-792	30mm Wearing Course	07-Mar-12	9	13-Mar-12	0%	502													
1D-14P-SF3-803	15mm Surface Treatment	13-Mar-12	2	15-Mar-12	0%	502													
Phase SP3 Carriageway Construction																			
604	Phase SP3 Carriageway Construction	08-Nov-11	92	30-Mar-12	0%	582													
1D-14P-SF3-605	Sub-base 220mm all carriageway areas	08-Nov-11	4	15-Nov-11	0%	233													
1D-14P-SF3-606	kerbing - Eastbound/Islands/Crossings	26-Feb-12	10	14-Mar-12	0%	273													
1D-14P-SF3-608	Signs / Street Furniture	02-Mar-12	5	08-Mar-12	0%	498													
1D-14P-SF3-609	Sub-base shape all carriageway areas	06-Mar-12	4	15-Mar-12	0%	508													
1D-14P-SF3-607	Gullies	13-Mar-12	2	15-Mar-12	0%	508													
1D-14P-SF3-610	Traffic Signals	14-Mar-12	0	0%	500														
1D-14P-SF3-611	Recessed Guardrail	14-Mar-12	2	16-Mar-12	0%	506													
1D-14P-SF3-612	Footpath Works	14-Mar-12	12	30-Mar-12	0%	497													
1D-14P-SF3-613	250mm Base	14-Mar-12	5	21-Mar-12	0%	495													
1D-14P-SF3-614	60mm Binder	21-Mar-12	2	23-Mar-12	0%	495													
1D-14P-SF3-615	30mm Wearing Course	23-Mar-12	1	26-Mar-12	0%	495													
Phase SP7 - Outbound Ch.130,650 (East Aboli Crescent)																			
783	Phase SP7 - Outbound Ch.130,650 (East Aboli Crescent)	30-Oct-12	30	27-Nov-12	0%	414													
1D-14-SF7-769	Make good Formation with Type 1	13-Nov-12	1	14-Nov-12	0%	345													
1D-14-SF7-776	Traffic Signals	13-Nov-12	5	30-Nov-12	0%	360													
Drainage & Ducts																			
764	Drainage & Ducts	01-Nov-12	8	13-Nov-12	0%	401													
1D-14-SF7-765	Outlet Connections	01-Nov-12	2	05-Nov-12	0%	342													
1D-14-SF7-766	Damage to Discharge Points	05-Nov-12	4	09-Nov-12	0%	342													
1D-14-SF7-767	Traffic Signal Ducts	06-Nov-12	3	13-Nov-12	0%	342													
1D-14-SF7-768	Lighting Ducts	06-Nov-12	2	13-Nov-12	0%	342													

Activity Status Legend:

- Actual Work
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18 Mar 11

Update Programme

Updated for V67 Design Programme, and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year
Crecent						
771	Crecent	30-Oct-12	20	27-Nov-12	0%	404
TD-14-SP7-772	Excavate existing junction	30-Oct-12	2	27-Nov-12	0%	404
TD-14-SP7-773	kerfing	01-Nov-12	10	15-Nov-12	0%	342
TD-14-SP7-774	Striped Area	14-Nov-12	6	22-Nov-12	0%	356
TD-14-SP7-775	Flousoth	22-Nov-12	3	27-Nov-12	0%	345
Phase SP4 - Ch. 130.813 - 130.867 (Crecent / Actual Crecent)						
617	Phase SP4 - Ch. 130.813 - 130.867 (Crecent / Actual Crecent)	04-Oct-11	110	20-Mar-12	0%	804
TD-14R-SP4-618	Plane Main Camerigway for Overlay	04-Oct-11	3	07-Oct-11	0%	164
TD-14R-SP4-626	Core/Cast OLE Pole Foundations	04-Oct-11	19	26-Oct-11	0%	578
TD-14R-SP4-627	Excavate to Formation for Camerigway and Track (incl for Clipping Type 1)	07-Oct-11	13	26-Oct-11	0%	273
TD-14R-SP4-628	Remove existing kerbs	07-Oct-11	13	26-Oct-11	0%	586
TD-14R-SP4-629	Check suitability of formation (optimal)	07-Oct-11	0	0%	279	
TD-14R-SP4-630	Capping Layer to Adjacent Camerigway (600mm)	11-Oct-11	11	26-Oct-11	0%	277
TD-14R-SP4-631	Make good Formation with Type 1 (Ave 230mm)	26-Oct-11	2	26-Oct-11	0%	273
TD-14R-SP4-632	Installation of IMU Drains and Cable Ducting	26-Oct-11	4	08-Nov-11	0%	273
TD-14R-SP4-633	Carry out inspection and testing of Subgrade	08-Nov-11	1	08-Nov-11	0%	273
TD-14R-SP4-634	Binding Concrete	08-Nov-11	4	15-Nov-11	0%	273
TD-14R-SP4-635	250mm RC Improvement Sub (+ cure lag)	15-Nov-11	10	29-Nov-11	0%	273
TD-14R-SP4-638	Access for Track Laying	01-Dec-11	0	0%	273	
TD-14R-SP4-637	Installation of Noise & Vibration Mit (if need)	01-Dec-11	0	0%	273	
TD-14R-TR0K-643	Track Crossover + mob	01-Dec-11	13	25-Jan-12	0%	273
TD-14R5-SP4-640	point machine mechanical set up	02-Dec-11	10	15-Dec-11	0%	662
TD-14R5-TR0K-703	Set track (2x 1400) (steep-slope) + mob	25-Jan-12	15	15-Feb-12	0%	273
TD-14R-SP4-641	Welding & Grinding	26-Jan-12	9	08-Feb-12	0%	273
TD-14R-SP4-642	Drainage / Rail Connections	26-Jan-12	9	08-Feb-12	0%	511
TD-14R-SP4-643	Installation of IMU Boxes and Loops	26-Jan-12	9	08-Feb-12	0%	511
TD-14R-SP4-644	Final Rail Alignment - Check and Approve	27-Jan-12	9	08-Feb-12	0%	273
TD-14R-SP4-644	230mm Concrete Supporting Layer (+ cure lag)	31-Jan-12	12	16-Feb-12	0%	595
Drainage & Ducts						
619	Drainage & Ducts	07-Oct-11	59	12-Jan-12	0%	615
TD-14R-SP4-620	Outfall Connections	07-Oct-11	59	12-Jan-12	0%	615
TD-14R-SP4-621	Drainage to Discharge Points	07-Oct-11	1	10-Oct-11	0%	164
TD-14R-SP4-622	Traction Ducts & Chambers	10-Oct-11	14	28-Oct-11	0%	164
TD-14R-SP4-623	Comms Ducts & Chambers	24-Oct-11	12	16-Nov-11	0%	284
TD-14R-SP4-624	Traffic Signal Ducts	26-Oct-11	8	10-Nov-11	0%	286
TD-14R-SP4-625	Lighting Ducts	26-Oct-11	2	04-Nov-11	0%	296
Sharnwick Place Tram Stop						
645	Sharnwick Place Tram Stop	26-Oct-11	74	31-Feb-12	0%	608
TD-14R-SP4-646	Ducting and Chambers	26-Oct-11	74	23-Feb-12	0%	608
TD-14R-SP4-647	Tramstop Platform	26-Oct-11	15	23-Nov-11	0%	164
TD-14R-SP4-648	Deliver and Install Tramstop Shelter (Ita)	23-Feb-12	0	0%	523	
Pavement Construction over Tracks						
629	Pavement Construction over tracks	25-Feb-12	17	16-Mar-12	0%	591
TD-14R-SP4-1020	150mm Blown	23-Feb-12	3	28-Feb-12	0%	917

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Legend:
█ Actual Work
█ Critical Remaining Work
█ Remaining Work
◆ Milestone
◆ % Complete
▬ Summary

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Activity ID	Activity Name	Start	Complete Duration	Actual Start	Actual End	Activity % Complete	Phase
TD-14R-SP4-841	35mm Wearing Course	26-Feb-12	1	26-Feb-12	0%	0%	517
TD-14R-SP4-802	15mm Surface Treatment	15-Mar-12	2	15-Mar-12	0%	0%	508
Phase SP4 Carriageway Construction							
833	Phase SP4 Carriageway Construction	26-Oct-11	94	20-Mar-12	50%	50%	550
TD-14R-SP4-844	Sub-base 220mm at carriageway areas	26-Oct-11	94	20-Mar-12	0%	0%	506
TD-14R-SP4-835	kerbing, Estbound/Westbound RT	04-Nov-11	9	17-Nov-11	0%	0%	271
TD-14R-SP4-847	Signs / Street Furniture	08-Nov-11	5	15-Nov-11	0%	0%	280
TD-14R-SP4-868	Sub-base slope at carriageway areas	10-Nov-11	6	18-Nov-11	0%	0%	277
TD-14R-SP4-866	Gullies	15-Nov-11	3	18-Nov-11	0%	0%	271
TD-14R-SP4-849	Traffic Signals	17-Nov-11	2	21-Nov-11	0%	0%	281
TD-14R-SP4-1040	Redeem Guardrails	17-Nov-11	0		0%	0%	556
TD-14R-SP4-851	Excavate Works	18-Nov-11	0		0%	0%	556
TD-14R-SP4-822	225mm Blaise - Nearside Lanes only	18-Nov-11	5	25-Nov-11	0%	0%	277
TD-14R-SP4-843	kerbing, Tramstop 07K/11	16-Feb-12	4	07-Mar-12	0%	0%	505
TD-14R-SP4-854	Sailed Area	23-Feb-12	18	20-Mar-12	0%	0%	505
TD-14R-SP4-805	225mm Blaise	07-Mar-12	2	09-Mar-12	0%	0%	508
TD-14R-SP4-876	60mm Binder	08-Mar-12	2	13-Mar-12	0%	0%	506
TD-14R-SP4-857	35mm Wearing Course	13-Mar-12	2	15-Mar-12	0%	0%	506
Phase SP5 - Outbound Ch.130.850 - 130.813 (Palmerston Place - Crescents)							
729	Phase SP5 - Outbound Ch.130.850 - 130.813 (Palmerston Place - Crescents)	26-Apr-12	30	19-Jun-12	0%	0%	528
TD-14W-SP5-706	Phase Main Carriageway 250mm	26-Apr-12	1	27-Apr-12	0%	0%	278
TD-14W-SP5-727	Core/Cast C/E Pole Foundations	26-Apr-12	2	30-Apr-12	0%	0%	278
TD-14W-SP5-748	Excavate to Formation for Carriageway and Track (incl for Capping Type 1)	27-Apr-12	2	01-May-12	0%	0%	279
TD-14W-SP5-719	Remove existing kerbs	27-Apr-12	2	01-May-12	0%	0%	476
TD-14W-SP5-740	Check suitability of formation (ongoing)	27-Apr-12	0		0%	0%	274
TD-14W-SP5-741	Capping Layer to Adjacent Carriageway (600mm)	30-Apr-12	1	01-May-12	0%	0%	278
TD-14W-SP5-722	Make good Formation with Type 1 (Ave 220mm)	01-May-12	1	02-May-12	0%	0%	278
TD-14W-SP5-723	Installation of IMU Drains and Cable Ducting	02-May-12	1	03-May-12	0%	0%	278
TD-14W-SP5-754	Carry out inspection and testing of Subgrade	03-May-12	1	04-May-12	0%	0%	278
TD-14W-SP5-675	Brining Concrete	04-May-12	1	08-May-12	0%	0%	278
TD-14W-SP5-759	250mm RC Improvement Slab (+ core lag)	06-May-12	1	08-May-12	0%	0%	278
TD-14W-SP5-737	Access for Track Laying	16-May-12	0		0%	0%	278
TD-14W-SP5-748	Installation of Noise & Vibration Mat (if reqd)	16-May-12	0		0%	0%	278
TD-14WTRCH-703	Set track (base)(base+rail) + mob	16-May-12	6	28-May-12	0%	0%	278
TD-14W-SP5-660	Welding & Bracing	21-May-12	2	23-May-12	0%	0%	278
TD-14W-SP5-751	Damage / Rail Connections	21-May-12	2	23-May-12	0%	0%	278
TD-14W-SP5-722	Installation of IMU Boxes and Loops	21-May-12	2	23-May-12	0%	0%	278
TD-14W-SP5-733	Final Rail Alignment - Check and Approve	23-May-12	2	24-May-12	0%	0%	278
TD-14W-SP5-784	230mm Concrete Supporting Layer (+ core lag)	24-May-12	2	28-May-12	0%	0%	279
TD-14W-SP5-615	Road Signs and Markings	11-Jun-12	5	19-Jun-12	0%	0%	444
TD-14W-SP5-786	Mill Rail Joint / Sealing Compound	13-Jun-12	5	19-Jun-12	0%	0%	278
830	Drainage & Ducts	26-Apr-12	11	14-May-12	50%	50%	553
TD-14W-SP5-731	Damage & Ducts	26-Apr-12	11	14-May-12	0%	0%	553
TD-14W-SP5-731	Outfall Connections	30-Apr-12	3	30-Apr-12	0%	0%	283
TD-14W-SP5-712	Damage to Discharge Points	30-Apr-12	3	03-May-12	0%	0%	283

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Legend:
█ Actual Work
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Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year	Month	Day
TD-14W-SP5-712	Traction Ducts & Chambers	01-May-12	9	04-May-12	0%	2012	05	01
TD-14W-SP5-744	Comms Ducts & Chambers	01-May-12	9	04-May-12	0%	2012	05	01
TD-14W-SP5-795	Traffic Signal Ducts	03-May-12	0	03-May-12	0%	2012	05	03
TD-14W-SP5-746	Lighting Ducts	03-May-12	2	14-May-12	0%	2012	05	03
Pavement Construction over tracks								
875	Pavement Construction over tracks	05-Jun-12	5	02-Jun-12	24%	2012	06	05
TD-14W-SP5-846	140mm Blot	05-Jun-12	5	02-Jun-12	0%	2012	06	05
TD-14W-SP5-827	35mm Wearing Course	05-Jun-12	1	07-Jun-12	0%	2012	06	05
TD-14W-SP5-838	15mm Surface Treatment	11-Jun-12	1	02-Jun-12	0%	2012	06	11
Crescent								
839	Crescent	05-May-12	15	30-May-12	54%	2012	05	05
TD-14W-SP5-1030	Excavate existing junction	05-May-12	15	30-May-12	0%	2012	05	05
TD-14W-SP5-821	Kerbing	08-May-12	1	08-May-12	0%	2012	05	08
TD-14W-SP5-812	Sailed Area	10-May-12	10	24-May-12	0%	2012	05	10
TD-14W-SP5-823	Floodpath	10-May-12	6	24-May-12	0%	2012	05	10
TD-14W-SP5-823	Floodpath	24-May-12	3	30-May-12	0%	2012	05	24
Phase SP6 Carriageway Construction (incl crescent)								
814	Phase SP6 Carriageway Construction (incl crescent)	01-May-12	27	11-Jun-12	53%	2012	05	01
TD-14W-SP5-845	Sub-base 200mm all carriageway areas	01-May-12	27	11-Jun-12	0%	2012	05	01
TD-14W-SP5-816	Kerbing - Eastbound/Inlands/Crossings	01-May-12	4	08-May-12	0%	2012	05	01
TD-14W-SP5-787	Gullies	05-May-12	2	05-May-12	0%	2012	05	05
TD-14W-SP5-798	Signs / Street Furniture	08-May-12	2	11-May-12	0%	2012	05	08
TD-14W-SP5-778	Sub-base single all carriageway areas	10-May-12	5	17-May-12	0%	2012	05	10
TD-14W-SP5-880	Traffic Signals	10-May-12	1	11-May-12	0%	2012	05	10
TD-14W-SP5-791	Floodpath Works	10-May-12	0	0%	0%	2012	05	10
TD-14W-SP5-762	225mm Base	10-May-12	10	24-May-12	0%	2012	05	10
TD-14W-SP5-783	60mm Binder	17-May-12	1	18-May-12	0%	2012	05	17
TD-14W-SP5-824	35mm Wearing Course	07-Jun-12	1	08-Jun-12	0%	2012	06	07
TD-14W-SP5-824	35mm Wearing Course	06-Jun-12	1	11-Jun-12	0%	2012	06	06
Phase SP6 - Inbound Ch. 130.860 - 130.813 (Palmerston Place - Crescent)								
867	Phase SP6 - Inbound Ch. 130.860 - 130.813 (Palmerston Place - Crescent)	16-Jun-12	94	30-Oct-12	33%	2012	06	16
TD-14X-SP6-826	Align Main Carriageway 250mm	16-Jun-12	94	30-Oct-12	0%	2012	06	16
TD-14X-SP6-888	Core/Cast GLE Pole Foundations	16-Jun-12	2	21-Jun-12	0%	2012	06	16
TD-14X-SP6-888	Excavate to Formation for Carriageway and Track (incl for Repairs) (1x14m)(4x20m)(1x16m)	21-Jun-12	4	27-Jun-12	0%	2012	06	21
TD-14X-SP6-869	Remove existing kerbs	21-Jun-12	4	27-Jun-12	0%	2012	06	21
TD-14X-SP6-1050	Check suitability of formation (ongoing)	21-Jun-12	0	0%	0%	2012	06	21
TD-14X-SP6-871	Capping Layer to Adjacent Carriageway (60mm)	25-Jun-12	3	27-Jun-12	0%	2012	06	25
TD-14X-SP6-832	Make good Formation with Type 1 (Ave 220mm)	27-Jun-12	1	28-Jun-12	0%	2012	06	27
TD-14X-SP6-853	Installation of MU Drains and Cable Ducting	28-Jun-12	2	02-Jul-12	0%	2012	06	28
TD-14X-SP6-864	Carry out inspection and testing of Subgrade	03-Jul-12	1	03-Jul-12	0%	2012	06	03
TD-14X-SP6-915	Binding Concrete	03-Jul-12	2	05-Jul-12	0%	2012	06	03
TD-14X-SP6-866	250mm RC Improvement Slab (1 care lag)	05-Jul-12	5	05-Jul-12	0%	2012	06	05
TD-14X-SP6-887	Access for Track Laying	01-Aug-12	0	0%	0%	2012	06	01
TD-14X-SP6-888	Installation of Noise & Vibration Mit (if need)	01-Aug-12	0	0%	0%	2012	06	01
TD-14X-TRCK-703	Set track (1x14m)(4x20m)(1x16m)	01-Aug-12	8	17-Sep-12	0%	2012	06	01
TD-14X-SP6-1060	Working & Grinding	02-Aug-12	4	12-Sep-12	0%	2012	06	02
TD-14X-SP6-881	Demag/ Rail Connections	02-Aug-12	4	12-Sep-12	0%	2012	06	02

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Update Programme

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Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
TD-14V-SF6-842	Installation of IM Boxes and Loops	02-Aug-12	4	13-Sep-12	0%	2011
TD-14V-SF6-883	Final Rail Alignment - Checks and Approve	03-Aug-12	4	13-Sep-12	0%	2011
TD-14V-SF6-874	230mm Concrete Supporting Layer (+ core lag)	11-Sep-12	5	18-Sep-12	0%	2011
TD-14V-SF6-877	OLE Nail Filings Inbound	18-Sep-12	3	21-Sep-12	0%	2011
TD-14V-SF6-852	M/R Rail Joint / Sealing Compound	03-Oct-12	3	08-Oct-12	0%	2011
TD-14V-SF6-851	Drainage & Ducts	18-Jun-12	21	18-Jul-12	50%	2011
529	Drainage & Ducts	18-Jun-12	21	18-Jul-12	0%	2011
TD-14V-SF6-1120	Outfall Connections	18-Jun-12	1	30-Jun-12	0%	2011
TD-14V-SF6-861	Drainage to Exchange Points	21-Jun-12	7	03-Jul-12	0%	2011
TD-14V-SF6-922	Traction Ducts & Chambers	27-Jun-12	7	06-Jul-12	0%	2011
TD-14V-SF6-933	Comms Ducts & Chambers	27-Jun-12	7	06-Jul-12	0%	2011
TD-14V-SF6-944	Traffic Signal Ducts	03-Jul-12	4	06-Jul-12	0%	2011
TD-14V-SF6-975	Lighting Ducts	16-Jul-12	2	18-Jul-12	0%	2011
TD-14V-SF6-975	Lighting Ducts	16-Jul-12	2	18-Jul-12	0%	2011
888	Pavement Construction over tracks	25-Sep-12	6	03-Oct-12	45%	2011
TD-14V-SF6-866	Pavement Construction over tracks	25-Sep-12	6	03-Oct-12	0%	2011
TD-14V-SF6-866	Pavement Construction over tracks	25-Sep-12	6	03-Oct-12	0%	2011
TD-14V-SF6-837	35mm Wearing Course	27-Sep-12	1	28-Sep-12	0%	2011
TD-14V-SF6-858	15mm Surface Treatment	02-Oct-12	1	03-Oct-12	0%	2011
789	Phase SF6 Carriageway Construction (incl crescent)	27-Jun-12	88	30-Oct-12	43%	2011
TD-14V-SF6-960	Sub-base 200mm all carriageway areas	27-Jun-12	4	03-Jul-12	0%	2011
TD-14V-SF6-871	kerbing - Eastbound side & Chisings	03-Jul-12	9	16-Jul-12	0%	2011
TD-14V-SF6-793	Signs / Street Furniture	05-Jul-12	5	12-Jul-12	0%	2011
TD-14V-SF6-834	Sub-base shape all carriageway areas	11-Jul-12	4	17-Jul-12	0%	2011
TD-14V-SF6-782	Gullies	13-Jul-12	2	17-Jul-12	0%	2011
TD-14V-SF6-855	Traffic Signals	16-Jul-12	10	01-Aug-12	0%	2011
TD-14V-SF6-826	Footpath Works	16-Jul-12	11	03-Aug-12	0%	2011
TD-14V-SF6-797	250mm Base	26-Jul-12	2	01-Aug-12	0%	2011
TD-14V-SF6-809	60mm Binder	26-Sep-12	1	01-Oct-12	0%	2011
TD-14V-SF6-799	35mm Wearing Course	01-Oct-12	1	03-Oct-12	0%	2011
TD-14V-SF6-1090	Finalise to Crescents	02-Oct-12	20	30-Oct-12	0%	2011
TD-14V-SF6-811	Road Signs and Markings	02-Oct-12	5	06-Oct-12	0%	2011
524	Phase SP2 - Outbound Ch. 130,960 - 130,990 (Palmerston Place - Crescents)	03-Jun-11	89	04-Oct-11	100%	2010
TD-14V-SF2-526	Align Main Carriageway 250mm	06-Jun-11	2	08-Jun-11	0%	2010
TD-14V-SF2-545	Excavate to Formation for Carriageway and Track (incl for Capping Type 1)	23-Jun-11	7	04-Jul-11	0%	2010
TD-14V-SF2-536	Remove existing kerbs	23-Jun-11	7	04-Jul-11	0%	2010
TD-14V-SF2-537	Check suitability of formation (ongoing)	23-Jun-11	0		0%	2010
TD-14V-SF2-538	Capping Layer to Adjacent Carriageway (600mm)	24-Jun-11	6	04-Jul-11	0%	2010
TD-14V-SF2-533	Core/Cast OLE Pile Foundations	04-Jul-11	3	07-Jul-11	0%	2010
TD-14V-SF2-539	Make good Formation with Type 1 (Hve 200mm)	04-Jul-11	1	05-Jul-11	0%	2010
TD-14V-SF2-700	Installation of IM, Drains and Cable Ducting	05-Jun-11	2	07-Jul-11	0%	2010
TD-14V-SF2-541	Carry out inspection and testing of Subgrade	07-Jul-11	1	08-Jul-11	0%	2010
TD-14V-SF2-542	Binding Concrete	06-Jun-11	1	11-Jul-11	0%	2010
TD-14V-SF2-543	250mm RC (improvement stack (+ core lag))	11-Jun-11	4	15-Jul-11	0%	2010

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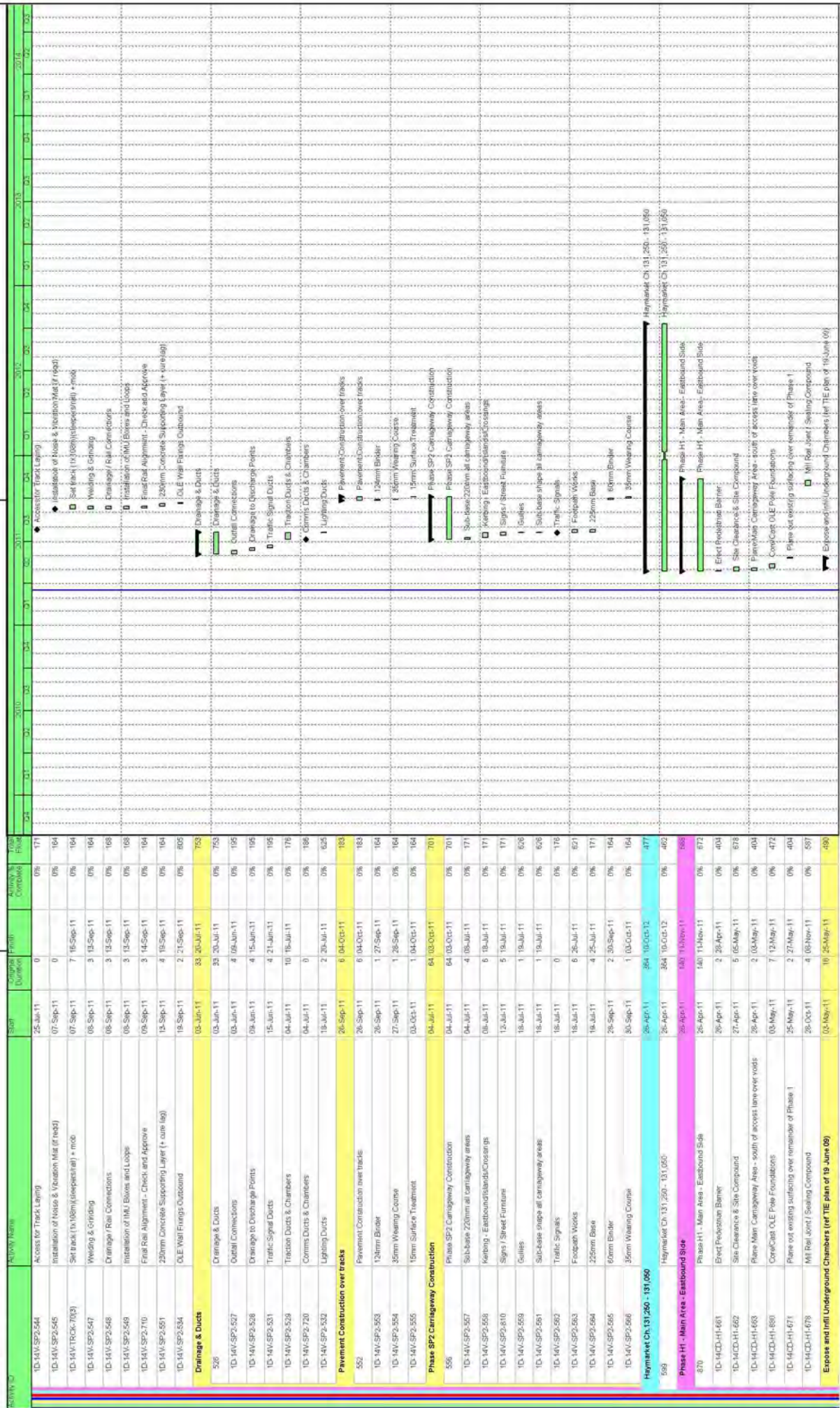
Approved

Summary

Update Programme

Updated for V67 Design Programme, and progress to 18 March 2011 .

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Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year	Phase
664	Expose and install Underground Chambers (ref TIE plan of 13 June 09)	03-May-11	16-Jun-11		0%	2011	09
TD-14CDH1-675	Expose concrete roof slabs / remove / fence	03-May-11	5-May-11		0%	2011	09
TD-14CDH1-656	Remove Roof Support Steelwork	10-May-11	5-May-11		0%	2011	09
TD-14CDH1-657	Erect Stop-End Shutters	17-May-11	18-May-11		0%	2011	09
TD-14CDH1-518	Install concrete to void (800mm)	18-May-11	3-May-11		0%	2011	09
TD-14CDH1-509	Strike shutters and make safe	24-May-11	1-May-11		0%	2011	09
TD-14CDH1-640	Make good to Formation with Type 1	24-May-11	1-May-11		0%	2011	09
Drainage & Ducts							
602	Drainage & Ducts	26-Apr-11	122-Jun-11		85%	2011	09
TD-14CDH1-693	Investigate services / install outdoor positions / levels	26-Apr-11	122-Jun-11		0%	2011	09
TD-14CDH1-674	Install Connections	29-Apr-11	6-May-11		0%	2011	09
TD-14CDH1-685	Drainage to Discharge Points	25-May-11	12-Jun-11		0%	2011	09
TD-14CDH1-658	Traffic Signal Ducts	02-Jun-11	4-Jun-11		0%	2011	09
TD-14CDH1-666	Traction Ducts & Chambers	13-Jun-11	9-Jun-11		0%	2011	09
TD-14CDH1-657	Comms Ducts & Chambers	12-Jul-11	6-Jul-11		0%	2011	09
TD-14CDH1-649	Lighting Ducts	07-Oct-11	9-Oct-11		0%	2011	09
Phase 11 - Outbound Track							
831	Phase 11 - Outbound Track	27-May-11	69-Sep-11		75%	2011	09
TD-14CH1-1502	Excavate to Formation for Carriageway and Track (incl for 200mm concrete) / check suitability of formation (ongoing)	27-May-11	9-Jun-11		0%	2011	09
TD-14CH1-1513	Caping Layer to Adjacent Carriageway (600mm)	27-May-11	0-Jun-11		0%	2011	09
TD-14CH1-1524	Make good Formation with Type 1 (Ave 200mm)	31-May-11	2-Jun-11		0%	2011	09
TD-14CH1-1545	Installation of IMU Drains and Cable Ducting	02-Jun-11	1-Jun-11		0%	2011	09
TD-14CH1-1526	Carry out inspection and testing of Subgrade	03-Jun-11	1-Jun-11		0%	2011	09
TD-14CH1-1527	Place RC Improvement Slab (+ cure lag)	06-Jun-11	1-Jun-11		0%	2011	09
TD-14CH1-1538	Access for Track Laying	07-Jun-11	1-Jun-11		0%	2011	09
TD-14CH1-1519	Installation of Noise & Vibration Mat (if reqd)	06-Jun-11	3-Jun-11		0%	2011	09
TD-14CH1-1110	Access for Track Laying	26-Jun-11	0-Jun-11		0%	2011	09
TD-14CH1-1541	Installation of Noise & Vibration Mat (if reqd)	26-Jun-11	0-Jun-11		0%	2011	09
TD-14C-TRCK-7032	Silt staggered track (1x50m)(steeper rail)	26-Jun-11	4-Sep-11		0%	2011	09
TD-14CH1-1523	Welding & Grinding	27-Jun-11	2-Jul-11		0%	2011	09
TD-14CH1-1524	Drainage / Rail Connections	27-Jun-11	2-Jul-11		0%	2011	09
TD-14CH1-1525	Installation of IMU Boxes and Loops	27-Jun-11	2-Jul-11		0%	2011	09
TD-14CH1-1536	Final Rail Alignment - Check and Approve	28-Jun-11	2-Sep-11		0%	2011	09
TD-14CH1-1537	200mm Concrete Supporting Layer (incl cure lag)	28-Jun-11	2-Sep-11		0%	2011	09
Phase 12 - Inbound Track							
608	Phase 12 - Inbound Track	29-Jun-11	77-Nov-11		70%	2011	09
TD-14CH1-1589	Excavate to Formation for Carriageway and Track (incl for 200mm concrete) / check suitability of formation (ongoing)	30-Jun-11	77-Nov-11		0%	2011	09
TD-14CH1-1590	Caping Layer to Adjacent Carriageway (600mm)	30-Jun-11	3-Jun-11		0%	2011	09
TD-14CH1-1572	Make good Formation with Type 1 (Ave 200mm)	26-Jun-11	2-Jul-11		0%	2011	09
TD-14CH1-1583	Installation of IMU Drains and Cable Ducting	01-Jul-11	3-Jul-11		0%	2011	09
TD-14CH1-1584	Carry out inspection and testing of Subgrade	05-Jul-11	1-Jul-11		0%	2011	09
TD-14CH1-1525	Place RC Improvement Slab (+ cure lag)	06-Jul-11	2-Jul-11		0%	2011	09
TD-14CH1-1508	Access for Track Laying	07-Jul-11	3-Jul-11		0%	2011	09
TD-14CH1-1507	Access for Track Laying	20-Jul-11	0-Jun-11		0%	2011	09

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Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Task
1D-14CDH1-519	Installation of Noise & Vibration Mat (if need)	20-Jun-11	0		0%	408
1D-14CDTRCK70(3)	Set track (1x100m)(as per detail)	16-Sep-11	5	23-Sep-11	0%	404
1D-14CDH1-1060	Welding & Grinding	19-Sep-11	3	22-Sep-11	0%	404
1D-14CDH1-9111	Dismantle Rail Connectors	18-Sep-11	3	22-Sep-11	0%	408
1D-14CDH1-8822	Installation of IMU Boxes and Loops	18-Sep-11	3	22-Sep-11	0%	408
1D-14CDH1-8938	Final Rail Alignment - Check and Approve	20-Sep-11	3	22-Sep-11	0%	404
1D-14CDH1-9104	200mm Concrete Supporting Layer (incl cure lag)	22-Sep-11	4	28-Sep-11	0%	404
Pavement Construction over tracks						
125	Reinforced Concrete over tracks	05-Oct-11	4	11-Oct-11	0%	707
1D-14CDRH1-736	120mm Blot	05-Oct-11	4	11-Oct-11	0%	691
1D-14CDRH1-717	35mm Wearing Course	07-Oct-11	1	10-Oct-11	0%	800
1D-14CDRH1-718	15mm Surface Treatment	16-Oct-11	1	16-Oct-11	0%	800
Phase 1 Carriageway Construction						
689	Phase 1 Carriageway Construction	26-Sep-11	32	11-Nov-11	0%	688
1D-14CDRH1-910	Phase Access Area - Eastbound Lane	26-Sep-11	1	29-Sep-11	0%	404
1D-14CDRH1-701	Excavate Eastbound Lane to Formation (incl for Clipping)	26-Sep-11	2	03-Oct-11	0%	404
1D-14CDRH1-692	Remove existing kerbs	26-Sep-11	2	03-Oct-11	0%	810
1D-14CDRH1-693	Check suitability of formation (ongoing)	26-Sep-11	0		0%	404
1D-14CDRH1-724	Capping Layer to Eastbound Carriageway (600mm)	26-Sep-11	2	03-Oct-11	0%	404
1D-14CDRH1-735	Sub-base 220mm all carriageway areas	03-Oct-11	4	07-Oct-11	0%	404
1D-14CDRH1-716	Kerbing K7 - Eastbound/Islands/Crossings	07-Oct-11	7	18-Oct-11	0%	405
1D-14CDRH1-697	Kerbing X11	07-Oct-11	8	18-Oct-11	0%	404
1D-14CDRH1-920	Signs / Street Furniture	11-Oct-11	5	18-Oct-11	0%	406
1D-14CDRH1-711	Sub-base shape all carriageway areas	18-Oct-11	4	18-Oct-11	0%	598
1D-14CDRH1-699	Gullies	18-Oct-11	2	18-Oct-11	0%	588
1D-14CDRH1-702	Traffic Signals	18-Oct-11	4	24-Oct-11	0%	407
1D-14CDRH1-734	225mm Base	18-Oct-11	5	25-Oct-11	0%	405
1D-14CDRH1-708	Sloped Areas	18-Oct-11	9	04-Nov-11	0%	404
1D-14CDRH1-703	Footpath Works	20-Oct-11	4	26-Oct-11	0%	408
1D-14CDRH1-745	50mm Blot	25-Oct-11	2	27-Oct-11	0%	405
1D-14CDRH1-726	35mm Wearing Course	27-Oct-11	1	28-Oct-11	0%	406
1D-14CDRH1-707	Road Signs and Markings	04-Nov-11	5	14-Nov-11	0%	404
Phase 10 - Haymarket Station frontage and approach to Viasist						
679	Phase 10 - Haymarket Station frontage and approach to Viasist	11-Nov-11	85	23-Mar-12	0%	597
1D-14G-H2-600	Erect Pedestrian Barrier	11-Nov-11	2	15-Nov-11	0%	508
1D-14G-H2-601	Site Clearance	11-Nov-11	5	18-Nov-11	0%	578
1D-14G-H2-672	Plane Main Carriageway 250mm	15-Nov-11	2	17-Nov-11	0%	508
1D-14G-H2-673	Plane Haymarket Station frontage	17-Nov-11	1	18-Nov-11	0%	542
1D-14G-H2-663	Excavate to Formation for Carriageway and Track (incl for Capping Type 1)	17-Nov-11	6	25-Nov-11	0%	509
1D-14G-H2-714	Remove existing kerbs	17-Nov-11	2	21-Nov-11	0%	578
1D-14G-H2-725	Check suitability of formation (ongoing)	17-Nov-11	0		0%	513
1D-14G-H2-706	Capping Layer to Adjacent Carriageway (600mm)	17-Nov-11	6	25-Nov-11	0%	515
1D-14G-H2-667	Mise good Formation with Type 1 (Area 230mm)	24-Nov-11	1	25-Nov-11	0%	508
1D-14G-H2-692	Cont/Cont OLE Pole Foundations	25-Nov-11	5	08-Jan-12	0%	529
1D-14G-H2-698	M11 Reel Joint / Sealing Compound	15-Mar-12	4	21-Mar-12	0%	917

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Actual Work Remaining Work

11-Mar-11 ETN Updated Programme - Progress to 18 Mar 11 JAC

Approved

11-Mar-11

100% Complete Summary

Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year
Drainage & Ducts						
704	Drainage & Ducts	15-Nov-11	78	16-Mar-12	59%	2011
TD-145-H2-715	Investigate services / orient positions / info-outlet positions / levels	15-Nov-11	78	16-Mar-12	0%	2011
TD-145-H2-666	Drainage services / orient positions / info-outlet positions / levels	15-Nov-11	2	17-Nov-11	0%	2011
TD-145-H2-667	Drainage services / orient positions / info-outlet positions / levels	15-Nov-11	2	21-Nov-11	0%	2011
TD-145-H2-677	Drainage to Discharge Points	21-Nov-11	5	28-Nov-11	0%	2011
TD-145-H2-688	Traction Ducts & Chambers	05-Jan-12	5	05-Jan-12	0%	2012
TD-145-H2-689	Comms Ducts & Chambers	25-Nov-11	3	30-Nov-11	0%	2011
TD-145-H2-690	Traction Signal Ducts	26-Nov-11	4	05-Jan-12	0%	2012
TD-145-H2-681	Lighting Ducts	05-Mar-12	9	16-Mar-12	0%	2012
Inbound Track						
588	Inbound Track	25-Nov-11	69	15-Mar-12	60%	2011
TD-145-H2-649	Installation of IMU Drains and Cable Ducting	25-Nov-11	2	28-Nov-11	0%	2011
TD-145-H2-1140	Carry out inspection and testing of Subgrade	26-Nov-11	1	30-Nov-11	0%	2011
TD-145-H2-381	Blinding Concrete	30-Nov-11	2	08-Jan-12	0%	2012
TD-145-H2-342	Place RC improvement Slab (+ core lag)	01-Dec-11	6	16-Jan-12	0%	2012
TD-145-H2-363	Access for Track Laying	18-Jan-12	0		0%	2012
TD-145-H2-374	Installation of Noise & Vibration Mat (if reqd)	18-Jan-12	0		0%	2012
TD-145-TRCK-703	Set track (172m + 1x120) (suspension) + m&b	18-Jan-12	9	31-Jan-12	0%	2012
TD-145-H2-366	Welding & Grinding	18-Jan-12	6	27-Jan-12	0%	2012
TD-145-H2-347	Drainage/Gal Connections	18-Jan-12	6	27-Jan-12	0%	2012
TD-145-H2-368	Installation of IMU Boxes and Loops	18-Jan-12	6	27-Jan-12	0%	2012
TD-145-H2-359	Final Rail Alignment - Check and Approve	26-Jan-12	8	30-Jan-12	0%	2012
TD-145-H2-1150	230mm Concrete Supporting Layer (incl core lag)	24-Jan-12	7	02-Feb-12	0%	2012
Pavement Construction over tracks						
871	Pavement Construction over tracks	08-Feb-12	29	15-Mar-12	60%	2012
TD-145-H2-822	120mm Binder	08-Feb-12	25	15-Mar-12	0%	2012
TD-145-H2-953	30mm Wearing Course	08-Feb-12	2	13-Feb-12	0%	2012
TD-145-H2-954	15mm Surface Treatment	13-Feb-12	1	14-Feb-12	0%	2012
Carriageway Construction Westbound						
1015	Carriageway Construction Westbound	02-Feb-12	36	23-Mar-12	60%	2012
TD-145-H2-860	Sub-base 220mm all carriageway areas	02-Feb-12	36	23-Mar-12	0%	2012
TD-145-H2-867	Strengthened Kerb (ULE60130-01-HL-01135)	02-Feb-12	4	08-Feb-12	0%	2012
TD-145-H2-888	Kerbing A7 - Westbound/Islands/Crossings	08-Feb-12	6	16-Feb-12	0%	2012
TD-145-H2-1170	Signs / Street Furniture	16-Feb-12	12	05-Mar-12	0%	2012
TD-145-H2-979	Gullies	26-Feb-12	4	05-Mar-12	0%	2012
TD-145-H2-1001	Sub-base stage all carriageway areas	26-Feb-12	4	05-Mar-12	0%	2012
TD-145-H2-982	Traffic Signals	05-Mar-12	4	05-Mar-12	0%	2012
TD-145-H2-984	250mm Base	05-Mar-12	5	13-Mar-12	0%	2012
TD-145-H2-693	Footpath Works	12-Mar-12	4	16-Mar-12	0%	2012
TD-145-H2-7025	60mm Binder	12-Mar-12	1	13-Mar-12	0%	2012
TD-145-H2-690	30mm Wearing Course	13-Mar-12	1	14-Mar-12	0%	2012
TD-145-H2-377	Road Signs and Markings	16-Mar-12	5	23-Mar-12	0%	2012
Haymarket Station						
699	Haymarket Station	16-Nov-11	67	06-Mar-12	60%	2011
TD-145-H2-1160	Excavation	16-Nov-11	67	06-Mar-12	0%	2012
TD-145-H2-1160	Excavation	16-Nov-11	4	24-Nov-11	0%	2011

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11-Mar-11

ETN Updated Programme - Progress to 18 Mar 11

JAC

Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year	Phase
TD-1405-H2-561	Kerbing RT	06-Jan-12	6	17-Jun-12	0%	556	
TD-1405-H2-573	Footpath Works / Embases	11-Jan-12	4	17-Jun-12	0%	558	
TD-1405-H2-562	Kerbing K11	08-Feb-12	4	14-Feb-12	0%	516	
TD-1405-H2-584	Sited Areas	14-Feb-12	15	08-Mar-12	0%	516	
Phase H3A - Ch. 131,100 - 131,050 (West Mainland Street)							
1005	Phase H3A - Ch. 131,100 - 131,050 (West Mainland Street)	11-Nov-11	37	17-Jan-12	0%	635	
TD-140N-H3A-976	Erect Pedestrian Barrier	11-Nov-11	1	14-Nov-11	0%	404	
TD-140N-H3A-977	Site Clearance	11-Nov-11	0	0%	584		
TD-140N-H3A-978	Place Main Carriageway 250mm - Embankment side over voids	14-Nov-11	2	16-Nov-11	0%	404	
Expose and Infill Underground Chambers (TIE plan of 19 June 09)							
339	Expose and Infill Underground Chambers (TIE plan of 19 June 09)	16-Nov-11	54	17-Jan-12	0%	654	
TD-140N-H3A-480	Expose concrete roof slabs / remove / fence	16-Nov-11	54	17-Jan-12	0%	635	
TD-140N-H3A-351	Remove Roof Support Steelwork	21-Nov-11	2	23-Nov-11	0%	404	
TD-140N-H3A-342	Erect Stop-End Shutters	25-Nov-11	2	25-Nov-11	0%	404	
TD-140N-H3A-343	Infill concrete to void (800mm)	25-Nov-11	3	30-Nov-11	0%	404	
TD-140N-H3A-354	Strike shutters and make safe	30-Nov-11	1	01-Dec-11	0%	570	
TD-140N-H3A-375	Make good to Formation with Type 1	30-Nov-11	1	01-Dec-11	0%	404	
TD-140N-H3A-346	Kerbing	01-Dec-11	1	03-Jan-12	0%	404	
TD-140N-H3A-348	Sub-base shape at carriageway area	06-Jan-12	1	10-Jan-12	0%	568	
TD-140N-H3A-349	Footpath Works	08-Jan-12	2	14-Jan-12	0%	407	
TD-140N-H3A-347	Signs / Street Furniture	10-Jan-12	1	11-Jan-12	0%	404	
TD-140N-H3A-460	25mm Base	11-Jan-12	1	12-Jan-12	0%	404	
TD-140N-H3A-361	60mm Binder	12-Jan-12	1	13-Jan-12	0%	404	
TD-140N-H3A-352	35mm Wearing Course	13-Jan-12	1	16-Jan-12	0%	404	
TD-140N-H3A-343	Road Signs and Markings	16-Jan-12	1	17-Jan-12	0%	404	
Phase H3B - Ch. 131,100 - 130,950 (West Mainland Street)							
694	Phase H3B - Ch. 131,100 - 130,950 (West Mainland Street)	17-Jan-12	119	05-Jul-12	0%	500	
TD-140N-H3B-695	Erect Pedestrian Barrier	17-Jan-12	2	18-Jan-12	0%	404	
TD-140N-H3B-676	Site Clearance	17-Jan-12	9	24-Jan-12	0%	598	
TD-140N-H3B-705	Cure/Cast OLE Pole Foundations	31-Jan-12	0	0%	553		
TD-140N-H3B-696	OLE Wall Forming	11-May-12	4	17-May-12	0%	478	
TD-140NCS-80	Installation of traffic light control - Junction 4B	16-May-12	9	30-May-12	0%	596	
Drainage & Ducts							
667	Drainage & Ducts	19-Jan-12	43	20-Mar-12	0%	603	
TD-140N-H3B-698	Investigate services / install positions / install duct positions / levels	19-Jan-12	43	20-Mar-12	0%	590	
TD-140N-H3B-699	Outfall Connections	23-Jan-12	2	25-Jan-12	0%	426	
TD-140N-H3B-660	Drainage to Discharge Points	25-Jan-12	9	07-Feb-12	0%	426	
TD-140N-H3B-651	Traction Ducts & Chambers	31-Jan-12	12	16-Feb-12	0%	404	
TD-140N-H3B-692	Comms Ducts & Chambers	31-Jan-12	8	10-Feb-12	0%	545	
TD-140N-H3B-653	Traffic Signal Ducts	07-Feb-12	4	13-Feb-12	0%	426	
TD-140N-H3B-694	Lighting Ducts	20-Mar-12	0	0%	411		
Outbound Track							
757	Outbound Track	19-Jan-12	52	02-Apr-12	0%	594	
TD-140H-H3T-778	Place Main Carriageway 250mm	19-Jan-12	2	23-Jan-12	0%	404	
TD-140H-H3T-749	Excavate to Formation for Carriageway and Track (incl for Caspings Type 1)	25-Jan-12	6	31-Jan-12	0%	404	

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Actual Work Remaining Work Critical Remaining Work % Complete

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ETN Updated Programme - Progress to 18 Mar 11

Summary

Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year	Month	Day	
1D-14M-HB-360	Remove existing beds	25-Jan-12	2	25-Jan-12	0%	2012	01	25	
1D-14M-HB-761	Check suitability of formation (ongoing)	23-Jan-12	0	03	0%	2012	01	03	
1D-14M-HB-742	Capping Layer to Adjacent Carriageway (600mm)	27-Jan-12	2	31-Jan-12	0%	2012	01	31	
1D-14M-HB-743	Make good Formation with Type 1 (Ave 200mm)	27-Jan-12	2	31-Jan-12	0%	2012	01	31	
1D-14M-HB-794	Installation of IMU Drains and Cable Ducting	31-Jan-12	2	02-Feb-12	0%	2012	01	02	
1D-14M-HB-825	Carry out inspection and testing of Subgrade	02-Feb-12	1	03-Feb-12	0%	2012	02	03	
1D-14M-HB-806	Blinding Concrete	03-Feb-12	2	07-Feb-12	0%	2012	02	07	
1D-14M-HB-777	Place RC Improvement Sals (+ cure lag)	06-Feb-12	4	10-Feb-12	0%	2012	02	10	
1D-14M-HB-758	Access for Track Laying	16-Feb-12	0	04	0%	2012	02	04	
1D-14M-HB-759	Installation of Noise & Vibration Mat (if req)	16-Feb-12	0	04	0%	2012	02	04	
1D-14M-TRCK-702	Set track (1M) (dep/ep/est)	16-Feb-12	6	24-Feb-12	0%	2012	02	24	
1D-14M-HB-761	Weaving & Grinding	17-Feb-12	4	23-Feb-12	0%	2012	02	23	
1D-14M-HB-752	Drainage/Rail Connections	17-Feb-12	4	23-Feb-12	0%	2012	02	23	
1D-14M-HB-753	Installation of IMU Boxes and Loops	17-Feb-12	4	23-Feb-12	0%	2012	02	23	
1D-14M-HB-804	Final Rail Alignment - Check and Approve	20-Feb-12	4	24-Feb-12	0%	2012	02	24	
1D-14M-HB-835	200mm Concrete Supporting Layer (incl cure lag)	22-Feb-12	5	29-Feb-12	0%	2012	02	29	
Pavement Construction over tracks									
786	Pavement Construction over tracks	07-Mar-12	31	30-Mar-12	54%	2012	03	30	
1D-14M-HB-747	120mm Binder	07-Mar-12	2	08-Mar-12	0%	2012	03	08	
1D-14M-HB-758	35mm Wearing Course	08-Mar-12	1	12-Mar-12	0%	2012	03	12	
1D-14M-HB-728	15mm Surface Treatment	26-Mar-12	1	30-Mar-12	0%	2012	03	30	
Carriageway Construction Westbound									
540	Carriageway Construction Westbound	23-Feb-12	23	02-Apr-12	56%	2012	02	02	
1D-14M-HB-371	Sub-base 200mm all carriageway areas	26-Feb-12	4	06-Mar-12	0%	2012	02	06	
1D-14M-HB-372	kerbing/7 - Westbound/Hand/Crossings	06-Mar-12	10	20-Mar-12	0%	2012	03	20	
1D-14M-HB-374	Signs / Street Furniture	06-Mar-12	5	15-Mar-12	0%	2012	03	15	
1D-14M-HB-425	Sub-base slope all carriageway areas	15-Mar-12	4	21-Mar-12	0%	2012	03	21	
1D-14M-HB-363	Gullies	15-Mar-12	3	21-Mar-12	0%	2012	03	21	
1D-14M-HB-378	Traffic Signals	20-Mar-12	4	26-Mar-12	0%	2012	03	26	
1D-14M-HB-367	Floodgates Weirs	20-Mar-12	7	29-Mar-12	0%	2012	03	29	
1D-14M-HB-368	225mm Base	21-Mar-12	3	26-Mar-12	0%	2012	03	26	
1D-14M-HB-359	60mm Binder	26-Mar-12	2	28-Mar-12	0%	2012	03	28	
1D-14M-HB-550	35mm Wearing Course	26-Mar-12	1	29-Mar-12	0%	2012	03	29	
1D-14M-HB-381	Road Signs and Markings	26-Mar-12	2	02-Apr-12	0%	2012	03	02	
Inbound Track									
432	Inbound Track	02-Apr-12	65	05-Jul-12	52%	2012	04	05	
1D-14M-HB-373	Plane Main Carriageway 250mm	02-Apr-12	2	04-Apr-12	0%	2012	04	04	
1D-14M-HB-434	Excavate to Formation for Carriageway and Track (incl for Capping Type 1)	04-Apr-12	8	13-Apr-12	0%	2012	04	13	
1D-14M-HB-485	Remove existing kerbs	04-Apr-12	2	06-Apr-12	0%	2012	04	06	
1D-14M-HB-476	Check suitability of formation (ongoing)	04-Apr-12	0	04	0%	2012	04	04	
1D-14M-HB-377	Capped Layer to Adjacent Carriageway (600mm)	11-Apr-12	3	14-Apr-12	0%	2012	04	14	
1D-14M-HB-378	Make good Formation with Type 1 (Ave 200mm)	11-Apr-12	2	13-Apr-12	0%	2012	04	13	
1D-14M-HB-369	Installation of IMU Drains and Cable Ducting	13-Apr-12	2	17-Apr-12	0%	2012	04	17	
1D-14M-HB-600	Carry out inspection and testing of Subgrade	17-Apr-12	1	18-Apr-12	0%	2012	04	18	
1D-14M-HB-431	Blinding Concrete	18-Apr-12	2	20-Apr-12	0%	2012	04	20	

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█ Actual Work
 █ Critical Remaining Work
 █ Remaining Work
 █ Milestone
 ◆ % Complete
 ◆ Summary

Date: 11-Mar-11
 Revision: ETN Updated Programme - Progress to 18 Mar 11
 Checked: JAC
 Approved:

Activity ID	Activity Name	Start	Original Duration	Final Duration	Activity % Complete	Year	Phase
1D-14H-HSE-472	Place RC Improvement Slab (+ cure lag)	15-Apr-12	4	25-Apr-12	0%	2011	04
1D-14H-HSE-483	Access for Track Laying	27-Apr-12	0		0%	2011	04
1D-14H-HSE-474	Installation of Noise & Vibration Mat (if need)	27-Apr-12	0		0%	2011	04
1D-14H-TRC-71(3)	Set track (1x14m)(spectral rail) + mcb	27-Apr-12	4	08-May-12	0%	2011	04
1D-14H-HSE-476	Welding & Grinding	30-Apr-12	4	04-May-12	0%	2011	04
1D-14H-HSE-477	Drainage/Rail Connectors	30-Apr-12	4	04-May-12	0%	2011	04
1D-14H-HSE-478	Installation of IMB Blives and Loops	30-Apr-12	4	04-May-12	0%	2011	04
1D-14H-HSE-379	Final Rail Alignment - Check and Approve	01-May-12	4	08-May-12	0%	2011	04
1D-14H-HSE-470	200mm Concrete Supporting Layer (if not cure lag)	01-May-12	5	11-May-12	0%	2011	04
1D-14H-HSE-471	Mil Rail Joint / Sealing Compound	27-Jun-12	6	05-Jul-12	0%	2011	04
Pavement Construction over tracks							
461	Pavement Construction over tracks	18-May-12	27	27-Jun-12	48%	2011	04
1D-14H-HSE-392	120mm Binder	18-May-12	27	27-Jun-12	66%	2011	04
1D-14H-HSE-393	35mm Wearing Course	18-May-12	2	23-May-12	0%	2011	04
1D-14H-HSE-394	15mm Surface Treatment	22-May-12	1	23-May-12	0%	2011	04
26-Jun-12		26-Jun-12	1	27-Jun-12	0%	2011	04
Carriageway Construction Westbound							
385	Carriageway Construction Westbound	11-May-12	33	28-Jun-12	53%	2011	04
1D-14H-HSE-396	Sub-base 220mm all carriageway areas	11-May-12	4	17-May-12	0%	2011	04
1D-14H-HSE-397	Drainage	17-May-12	5	24-May-12	0%	2011	04
1D-14H-HSE-520	Keelup K11	17-May-12	11	04-Jun-12	0%	2011	04
1D-14H-HSE-398	Memorial Island	24-May-12	5	01-Jun-12	0%	2011	04
1D-14H-HSE-399	Keelup K7 - Westbound/Island/Crossings	01-Jun-12	10	15-Jun-12	0%	2011	04
1D-14H-HSE-392	Salted Areas	04-Jun-12	15	25-Jun-12	0%	2011	04
1D-14H-HSE-383	Signs / Street Furniture	05-Jun-12	5	12-Jun-12	0%	2011	04
1D-14H-HSE-394	Sub-base strip at carriageway areas	12-Jun-12	4	18-Jun-12	0%	2011	04
1D-14H-HSE-391	Gullies	13-Jun-12	3	18-Jun-12	0%	2011	04
1D-14H-HSE-395	Traffic Signals	15-Jun-12	4	21-Jun-12	0%	2011	04
1D-14H-HSE-396	Footpath Works	15-Jun-12	7	26-Jun-12	0%	2011	04
1D-14H-HSE-397	250mm Base	18-Jun-12	2	21-Jun-12	0%	2011	04
1D-14H-HSE-398	50mm Binder	21-Jun-12	2	25-Jun-12	0%	2011	04
1D-14H-HSE-399	35mm Wearing Course	25-Jun-12	1	26-Jun-12	0%	2011	04
1D-14H-HSE-530	Road Signs and Markings	26-Jun-12	2	28-Jun-12	0%	2011	04
Phase 14 - Haymarket Terrace Westbound							
402	Phase 14 - Haymarket Terrace Westbound	23-Mar-12	7	03-Apr-12	59%	2011	04
1D-14-H4-403	Erect Barrier	23-Mar-12	1	26-Mar-12	0%	2011	04
1D-14-H4-404	Site Clearance	26-Mar-12	2	28-Mar-12	0%	2011	04
1D-14-H4-415	Place Main Carriageway for Overlay	26-Mar-12	2	30-Mar-12	0%	2011	04
1D-14-H4-407	Road Signs and Markings	28-Mar-12	3	03-Apr-12	0%	2011	04
1D-14-H4-406	35mm Surface Course	30-Mar-12	1	02-Apr-12	0%	2011	04
Phase 15 - West Midland Street / Grosvenor Street							
408	Phase 15 - West Midland Street / Grosvenor Street	05-Jun-12	12	23-Jul-12	0%	2011	04
1D-14-H5-408	Erect Barrier	05-Jun-12	1	06-Jul-12	0%	2011	04
1D-14-H5-560	Site Clearance	06-Jul-12	2	10-Jul-12	0%	2011	04
1D-14-H5-475	Excavation	06-Jul-12	3	10-Jul-12	0%	2011	04
1D-14-H5-419	Keelup	10-Jul-12	5	17-Jul-12	0%	2011	04

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Revision

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Actual Work

Remaining Work

Critical Remaining Work

Milestone

% Complete

Summary

Activity ID	Activity Name	Start	Complete Duration	Final	Activity % Complete	Year Risk
TD-14-H5-418	Signs / Street Furniture	16-Jul-12	5	23-Jul-12	0%	432
TD-14-H5-400	Road Signals and Markings	16-Jul-12	3	19-Jul-12	0%	484
TD-14-H5-417	Footpath Works / Finishes	17-Jul-12	4	23-Jul-12	0%	432
TD-14-H5-418	35mm Surface Course	17-Jul-12	1	18-Jul-12	0%	484
Drainage & Ducts						
411	Drainage & Ducts	05-Jul-12	4	12-Jul-12	0%	511
TD-14-H5-412	Investigate services / radial positions / inter-socket positions / levels	05-Jul-12	1	09-Jul-12	0%	485
TD-14-H5-413	Drainage to Discharge Points	06-Jul-12	3	12-Jul-12	0%	485
TD-14-H5-414	Traffic Signal and Lighting Ducts	08-Jul-12	3	12-Jul-12	0%	459
Phase H61 - Dairy Road (central island)						
421	Phase H61 - Dairy Road (central island)	05-Jul-12	65	05-Oct-12	0%	454
Phase 1						
422	Phase 1	05-Jul-12	7	16-Jul-12	0%	489
TD-14-H61-423	Erect Barrier for island site	05-Jul-12	2	08-Jul-12	0%	404
TD-14-H61-424	Site Clearance	08-Jul-12	3	12-Jul-12	0%	404
TD-14-H61-435	Excavate and fill island for TM	12-Jul-12	2	16-Jul-12	0%	404
Phase 2						
486	Phase 2	20-Sep-12	11	05-Oct-12	0%	465
TD-14-H61-477	Erect Barrier for island site	20-Sep-12	1	21-Sep-12	0%	451
TD-14-H61-468	Excavation	21-Sep-12	2	25-Sep-12	0%	405
TD-14-H61-429	Traffic Signal and Lighting Ducts	21-Sep-12	3	26-Sep-12	0%	412
TD-14-H61-480	Core and Cast OLE Pile Foundations (1tr)	25-Sep-12	2	27-Sep-12	0%	405
TD-14-H61-481	Keelring	25-Sep-12	4	01-Oct-12	0%	405
TD-14-H61-482	Footpath Works / Finishes	25-Sep-12	5	05-Oct-12	0%	405
TD-14-H61-473	Place Main Carriageway for Overlay	01-Oct-12	1	03-Oct-12	0%	406
TD-14-H61-505	Road Signals and Markings	01-Oct-12	3	04-Oct-12	0%	406
TD-14-H61-404	35mm Surface Course	02-Oct-12	1	03-Oct-12	0%	405
Phase H62 - Dairy Road Eastbound						
438	Phase H62 - Dairy Road Eastbound	16-Jul-12	7	25-Jul-12	0%	476
TD-14-H62-437	Erect Barrier	16-Jul-12	1	17-Jul-12	0%	404
TD-14-H62-438	Site Clearance	17-Jul-12	2	19-Jul-12	0%	404
TD-14-H62-439	Traffic Signal and Lighting Ducts	17-Jul-12	2	19-Jul-12	0%	404
TD-14-H62-450	Place Main Carriageway for Overlay	18-Jul-12	2	23-Jul-12	0%	404
TD-14-H62-442	Road Signals and Markings	20-Jul-12	3	25-Jul-12	0%	404
TD-14-H62-441	35mm Surface Course	20-Jul-12	1	24-Jul-12	0%	404
Phase H63 - Morrison Street - Westbound Lane						
443	Phase H63 - Morrison Street - Westbound Lane	25-Jul-12	33	11-Sep-12	0%	450
TD-14-H63-444	Erect Barrier	25-Jul-12	1	26-Jul-12	0%	404
TD-14-H63-445	Site Clearance	26-Jul-12	2	01-Aug-12	0%	404
TD-14-H63-446	Traffic Signal and Lighting Ducts	26-Jul-12	2	01-Aug-12	0%	404
TD-14-H63-447	Place Main Carriageway for Overlay	01-Aug-12	3	03-Aug-12	0%	404
TD-14-H63-448	35mm Surface Course	03-Aug-12	1	10-Sep-12	0%	404
TD-14-H63-449	Road Markings and Signs	10-Sep-12	1	11-Sep-12	0%	404
Phase H64 - Morrison Street - Dairy Road						
500	Phase H64 - Morrison Street - Dairy Road	11-Sep-12	21	10-Oct-12	0%	462

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Actual Work Remaining Work Critical Remaining Work

Approved JAC

Revision Progress to 18 Mar 11

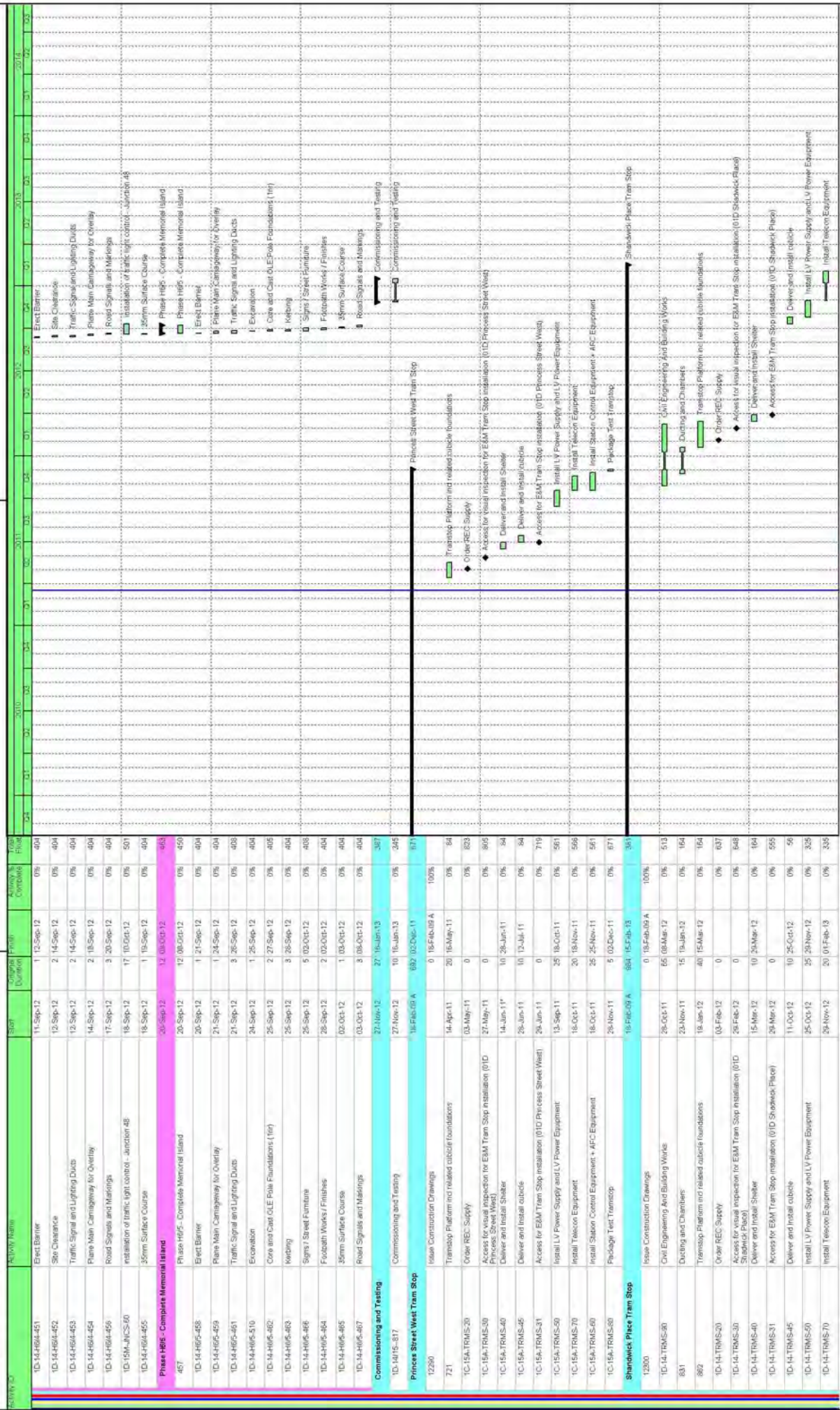
11-Mar-11

% Complete Summary

Update Programme

Updated for V67 Design Programme,
and progress to 18 March 2011 .

EDINBURGH TRAM NETWORK



Date	Revision	Checked	Approved
11-Mar-11	ETN Updated Programme - Progress to 18 Mar 11	JAC	

█ Actual Work
█ Remaining Work
█ Critical Remaining Work
◆ Milestone
▬ % Complete
▬ Summary