

## Edinburgh Tram Network

### *SDS Progress Report - July 2008*

Doc. Ref: ULE90130-SW-REP-00588 ~~V1~~



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**TOP TEN ISSUES.****1. PEDESTRIAN CROSSING TIMINGS**

- PB are currently designing to the Edinburgh Standards for roads as instructed by tie. It is now the desire of CEC that the National Standards/Guidelines for Pedestrian Crossings are used.
- PB have raised this with tie as a change, and sent copies of the letters to BSC, SR to raise with tie.
- Stefan Rotthaus has raised in Monthly Progress meeting with tie, BSC still awaiting response from tie.
- **This will be come critical path if the instruction is not issued to PB by 5<sup>th</sup> Sep 08**
- A Dolan wrote latest letter to BSC for onward transmittal to tie week commencing 22/09/08. Costs are being incurred by tie.
- SDS have submitted a Change Estimate for this work to BSC 14 October '08
- Discussed at Design Meeting on 23<sup>rd</sup> October 2008 and it was agreed that PB do nothing until instructed under change order. It was established that tie consider this work to be a change to PB as the designer but not necessarily a change to BSC.
- SDS sent letter to tie (our ref. ULE90130-07-LET-01287) on 19 November further outlining the issue and identifying the required information.

**2. Design PROGRAMME FOR SYSTEMWIDE DESIGN EQUIPMENT**

- PB require a programme of design works by BSC in order that they can ensure they have the availability required resources to comment on the integration of the BSC design and then produce the cost estimates for incorporating the systemwide requirements within the infrastructure design. This programme was requested following discussion 18<sup>th</sup> Sep 08.

- PB have specifically requested design programme information for the Siemens trackform design stages 1,2 & 3 in order to support BSC request for cost and programme from PB
- Completion of OLE, S&Comms and Power design programmes are also required.
- This was further discussed on 23<sup>rd</sup> October 2008 (Rotthous/Dolan/Chandler) and confirmed that an overall design programme which includes OLE and S&Comms was not yet available. Completion of design for these elements from Siemens was known as January 2009. Without immediate correct detail of the Siemens detail design programme it will be not possible to guarantee the correct resources being available at the correct time.

### 3. EARTHING & BONDING REQUIREMENTS FOR HAYMARKET VIADUCT

- Haymarket Viaduct 2A
- PB is concerned that the proposals to detail the earthing & bonding requirements is to be in generic format. Each structure must be individually marked up for E&B requirement.
- On the 19<sup>th</sup> Sep 08, PB requested a copy of the E&B Presentation given on same date. BSC to supply.
- Haymarket Viaduct E&B workshop is urgently required week commencing 29/09/08. This workshop was convened and PB await completed detailed E&B requirement drawings urgently to ensure the E&B requirements are taken on board by Siemens for this structure.
- Confirmation of compliance (and testing results) for the Siemens E&B requirements to the present concrete pours at Haymarket are required by PB

### 4. ALIGNMENT WORKSHOPS

- System Wide



- BSC have expressed their desire to complete and closeout the alignment works between tie/BSC/PB as expediently as possible. BSC are to coordinate the workshops and PB asked that a schedule of dates for workshops is issued in order that PB supports BSC with the relevant staff.
- Workshop Close out Meetings to be scheduled by BSC week commencing 29/09/08
- The Roads/Pavement Alignment meeting to discuss the BSC Final Report was cancelled by tie as CEC could not attend. Discussion took place at meeting venue (B. Bell/S.Rotthous/A. Dolan) on 23<sup>rd</sup> October 2008 and it was agreed that all parties move to Close Out Report.
- All other Alignment Workshops to be scheduled by BSC.

#### 5. BSC TRAM DUCTING REQUIREMENTS

- Section 1B
- PB were to receive full marked up ducting drawings for section 1B from Siemens for incorporation to the tram way ducting drawings. On the 25<sup>th</sup> Sep 08 concept sketch requirements only, were received by PB. On the basis of fully marked up drawings PB committed a completion programme of 2 weeks from receipt of information. The concept sketches are not the full requirement discussed at the ducting meeting 16<sup>th</sup> Sep 08 and will therefore lead to delays to the design programme. Typical example (zero information of SP incomers to tramway).
- Larger duct diameter requirements of 300mm have been requested by BSC. This will create deeper excavations for ducting routes than duct routes proposed by SDS.
- Siemens to provide written confirmation that spare ducts do not have to be 300mm. This is an ER requirement that needs a derogation/relaxation confirmation which is still outstanding and holding up ductwork design for the systemwide elements.
- PB have reviewed the generic ducting requirements from Siemens at Tramstops and believe the requirement for 150mm ducts to be excessive.

100mm ducts with 50mm branch ducts are the PB proposal and advertise a cost effective design. This requires urgent interface agreement between BSC/Siemens as this will cause major re-design to tramstop design for no apparent reason. All other UK tramstop designs have 100mm ductwork (or smaller) at tramstops.

## 6. OLE DESIGN REQUIREMENTS FROM SIEMENS

- System Wide
- PB were to receive the OLE drawings and the presentation on the Siemens OLE alignment drawings give on 19<sup>th</sup> Sep 08. These drawings are yet to be received. No assessment, programme or cost can be given until receipt.
- Full equipment schedules and materials are needed from Siemens such that SDS may propose an engagement strategy for Approvals and Consents with CEC and other Third Parties.
- Overlays of the Siemens OLE designs are being carried out and an alignment report is under preparation of the general arrangements only.
- Discussions on types of building fixings to be used have resulted in Siemens giving reconsideration to their original proposals. A less intrusive design is now being prepared for Approvals and Consent consideration. This proposal is advised by PB ASAP. Each fixing location requires a detailed componentry make-up fixing proposal such that CEC may give consideration to the visual impact (and their acceptance)

## 7. OCEAN TERMINAL

- Section 1A
- PB are in receipt of a copy of change notice for Forth Ports confirmed layout drawings. These drawings indicate changes in track and therefore roads/kerb detailing throughout this section. Additional scope is also to the Forth Ports Drawings (additional utility crossings throughout the route). PB awaits formal instruction and drawings such that cost and programme may be indicated prior to official change.

- Change Estimate is being prepared by PB. ETA week commencing 28<sup>th</sup> October 2008.
- SDS has submitted informal consultation drawings to CEC planning for comment. Signoff expected week of 24 November 08.
- SDS still requires confirmation from tie on the agreed finishes in the area based on the financial agreement between tie / CEC and Forth Ports. SDS cannot complete the design / approvals until this information is received.

## 8. PICARDY PLACE

- Picardy Place was submitted to Planning during this period. No change to the proposed "island" was requested prior to submission.
- SDS has addressed advanced comments received from CEC on the technical submission. Revised drawings issued to CEC technical and planning week of 24 November 08 incorporating these comments.

## 9. APPROVALS

### Key Stats (figures in brackets are based on projection to 12 December)

Of the 220 Planning and Technical Approvals required:

- 80% approved (175). Slightly down from projected figure of 81% in mid November. This anomaly is due to: ongoing resolution of commercial and roads issues outlined elsewhere in the report and; non approval by CEC of six Section 3 roads submissions due in last reporting period
- 15% are pending approval (32). Up from 12% in mid November
- 6% to be submitted (14). Down from 7% in mid November`

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Current status (as of 21 November) is:

- 80% Planning Approvals granted (up from 72%).
- 72% Technical Approvals granted (same as last reporting period).

To get to 100%, we need to unblock/overcome key obstacles:

- Commercial - BSC to issue change orders on Murrayfield Stop, Shandwick stop, Airport stop, West Pilton stop + Gogarburn stop Prior Approvals.
- Scottish Water consents. SW finally dealing with these but progress is slow. Tie support required to keep pressure on SW to deliver programme for approvals.
- Roads Close Out Reports. SDS progressing a programme of submissions. These require Scottish Water approval for final CEC approval.
- Building Warrants – BSC to issue method statements etc. for remaining 4. SDS to provide plans to BSC for 4 of these. SDS to submit remaining Building Warrant elements in resubmission.
- Section 3 approvals – West Pilton is with BSC. 6 remaining Roads Approvals with CEC, but assessment being postponed each month.

**Systemwide**

- Scottish Water Approval/Consents. Vital that approval and consent of SDS design is obtained from Scottish Water. SDS awaiting programme for approvals from Scottish Water. 1 officer dealing with applications. Lack of Resources in Scottish Water appears to be holding up approvals. SDS receiving assistance from Damian Sharp of tie to push the acceptance for systemwide outfall consents.
- SW Technical Approval Engineer now visiting PB offices with view to working through drainage drawings with SDS Roads/Drainage Design Teams.
- List of building demolitions provided to BSC by tie is not the same as SDS demolition list. SDS have received the new list from BSC. SDS also requires all requested information to submit Building Warrants. Good progress being made, but Warrant information and Method Statement still outstanding for Cathedral Lane and Police Box Coffee Bar
- Interfaces between SDS and BSC to formalise and complete designs for the following:
  - Earthing & Bonding - PB are concerned that the proposal issued in the Design Amendment Sheet for Haymarket Viaduct earthing & bonding differs from that shown in the earthing & bonding presentation from BSC on the 19th Sep 08, PB requested a copy of the presentation for comparison. BSC to supply. Information received during meetings also indicates that the earthing and bonding related to stray current may be changing from that presented in the trackwork presentation.
  - Ducting - PB were to receive full marked up ducting drawings for section 1B from Siemens for incorporation to the tram way ducting drawings. On the 25th Sep 08 concept sketch requirements only, were received by PB. On the basis of



fully marked up drawings PB committed a completion programme of 2 weeks from receipt of information. It is believed that BSC have written to Siemens requesting fully marked up drawing requirements for ducting to be provided. The concept sketches are not the full requirement discussed at the ducting meeting 16th Sep 08 and will therefore lead to delays to the design programme. SDS are producing a marked up drawing for information only for section 1B to enable discussions between BSC and SDS to move forward. These drawings were provided during this period and Siemens have confirmed that these will be marked up with their requirements. At the Weekly Progress Meeting it is minuted that Siemens will also confirm where ducting is “not required but identified on PB Ducting Drawings”.

- OLE Designs - PB were given presentation on the Siemens OLE alignment showing the design changes against the PB OLE Design. General Arrangement drawings have been received and detailed designs are awaited. Pole sizes have increased against the SDS Design (presumably due to the Auto Tensioning design concept proposal by Siemens and this will impact on the Pole Foundations which will need re-design to suit the larger poles and greater turning moment to be countered. Drawings are yet to be received.
- Trackwork designs – PB were presented with Trackwork concept report and “typical” cross sections from the RHEADADA website as proposals for RHEADADA trackform designs from BAM. PB has requested a design programme to allow PB to appropriately support BSC in developing these designs together with the current IFC designs produced. PB are concerned that the designs are only concepts at this stage. Design programme and details for approval purposes are still urgently awaited. Discussion and Internal Alignment Meeting was requested by PB to BSC on 23<sup>rd</sup> October 2008. (Meeting discussion Rotthaus/Dolan/Chandler)

### Section 1 Approvals

#### Outstanding - Planning

Approvals:

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- Two Ocean Terminal Batches (Tramstop and Bypass Road) on hold. Both have yet to be submitted due to delays in finalising the Forth Ports agreement. Forth Ports inputs to surface finishes has not been forthcoming. SDS proceeded with Informal Consultation without these inputs.
- New batch: 1/04a Victoria Dock Entrance Bridge has been submitted to CEC Planning to meet IFC deadline. Prior Approval received. SDS awaiting Instruction from BSC to progress design.
- Revisions to 1/17 Shandwick Place being made following Change. Revised Prior Approval Submission made 21 November 08.

Listed Building Consents:

- All listed building consents have now been granted.

Warrants:

- Two warrants submitted this period with the inputs received from BSC – Plot 80 on Lindsay Road and 33 Ocean Drive.
- Two Warrants remain to be submitted. These are Cathedral Lane toilet block and the Police Box coffee bar at Picardy Place. BSC to provide method statements and plans for these in order for submittal to take place.

**Outstanding - Technical**

- 1A Tower Place Bridge with CEC. Meeting held 19 November 08 with CEC / tie to go through comments / issues and agree resolution.
- 1A4 and 1C2, Roads with CEC

- 1A3 due to be submitted. Letter to BSC setting out Technical Issues with Design

### Subsection 1A1

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

- Roads, St Lighting, Landscaping, Drainage 1A1 IFC delayed due to TAA comments. Letter sent to BSC 29 August 2008. This delay also affects IFCs for Port of Leith TS, Bernard St TS, Foot of the Walk TS, 1A2 roads. Approval and comments received in SDS office 19 September 2008. Approx.50% complete.

#### 1.2 Tram Stop – Bernard Street (Ch 102+240)

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

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

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

### Subsection 1A2

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

- Roads, Street Lighting, Landscaping, and Drainage 1A2 IFC delayed due to TAA comments. Letter sent to BSC 29 August 2008. This delay also affects IFCs for Port of Leith TS,



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Bernard St TS, Foot of the Walk TS, 1A2 roads. Approval and comments received in SDS office 19 September 2008. Approx. 50% complete.

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

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

**Subsection 1A3**

## 3.1 Roads, Track, Street Lighting and Landscaping – Subsection 1A3 – Ocean Terminal to Port of Leith

- **Forth Ports** - Final agreement between CEC and Forth Ports on the proposed bypass road (Road 8) is apparently achieved. SDS awaiting formal response from BSC to SDS clarification letter (**tie** needs to respond to BSC TQ). Information informally received from **tie** via email, and several queries returned. No instruction from BSC to SDS to date. This issue is impacting the final design development and finalisation of the TRO. **tie** have previously instructed SDS to progress the design on with Rev 3 of the agreement drawings. SDS have also requested copy of agreement with Scottish Government and designs for the movement of the access gate to the Scottish Government complex with Forth Port has indicated is being completed..
- Section 1A3 - Batch 1/02 is still on hold due to lack of agreement with Forth Ports on finishes. This may continue to delay Prior Approval, technical approval and IFC until Instruction is received on the finishes.

## 3.2 Drainage – Subsection 1A3 – Ocean Terminal to Port of Leith

- Under development with Roads design.

### 3.3 Tram Stop – Ocean Terminal (Ch 100+950)

- **Forth Ports** - Final agreement between CEC and Forth Ports on the proposed bypass road (Road 8) is apparently achieved. SDS awaiting formal response from BSC to SDS clarification letter (**tie** needs to respond to BSC TQ). Information informally received from **tie** via email, and several queries returned. No instruction from BSC to SDS to date. This issue is impacting the final design development and finalisation of the TRO. **tie** have previously instructed SDS to progress the design on with Rev 3 of the agreement drawings. SDS have also requested copy of agreement with Scottish Government and designs for the movement of the access gate to the Scottish Government complex with Forth Port has indicated is being completed..
- Section 1A3 - Batch 1/02 is still on hold due to lack of agreement with Forth Ports on finishes. This may continue to delay Prior Approval, technical approval and IFC until Instruction is received on the finishes.

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

- SDS provided letter to BSC on 07 August 2008 (our ref ULE90130-01-LET-00752) alerting BSC of delays to IFC and potential mitigation which could be implemented if instructed. BSC sent TQ indicating their preference to break out bridge Prior Approval. Prior Approval Granted. IFC submitted. **No instruction received to date.**

### 3.5 Tower Place Bridge - S17 (Ch101+470)

CEC provided a letter to SDS on 28 July 2008 outlining planning concerns over the previously agreed (with CEC structures) technical solutions to the pedestrian parapets. SDS and CEC met on 06 August 2008 to discuss concerns and solutions to mitigate. SDS has provided solutions to

CEC which reflect the discussions, and resolution achieved. A letter in response to the CEC letter was sent 25 August 2008 (our ref. ULE90130-01-LET-00771). SDS sent letter to BSC notifying of change on 07 August 08 (our ref ULE90130-01-LET-00750). Revised planning drawings resubmitted to CEC. Full Planning Permission received. CEC have made comments on the technical submittal which will have minor impacts to the planning drawings. Meeting held 19 November 08 with resolution achieved. Awaiting Technical Approval from CEC.

#### **Subsection 1A4**

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

- Objection to the Planning and Prior Approvals in the west of the site (Batches 1/01a, b, c) have been registered by an impacted Third party (ADM Milling) who was not party to the Forth Ports agreement. CEC have raised comment with SDS on this and have advised that they cannot come to decision until such issues are resolve. SDS has provided a design in accordance with the revised FP agreement, as instructed, and the negotiation with the 3<sup>rd</sup> party is outwith the scope of SDS. Letter provided to BSC on this issue on 20 August 2008 (our ref ULE90130-01-LET-00767).
- CEC requested delay to providing response to Planning Batches in this area.
- Prior Approval now granted for all 3 batches outlined above.
- 1A4 delayed due to redesign. Delay due to the CEC requirement to take account of a full access junction for the TAA. Letters sent to BSC 30 June 2008 and 25 July 2008.

##### 4.2 Drainage – Subsection 1A4 Newhaven to Ocean Terminal

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- Forth Ports have completed construction of a new substation and access drive through this area. No as-built information available. SDS have requested change (DCR0111) to cover revised design requirements (ref. letter ULE90130-01-LET-00880)
- 1A4 delayed due to redesign. Delay due to the CEC requirement to take account of a full access junction for the TAA. Letters sent to BSC 30 June 2008 and 25 July 2008.

4.3 Tram Stop – Newhaven (Ch 100+080)

- Prior Approval for this area now granted.
- Delayed due to roads 1A4 redesign. Delay due to the CEC requirement to take account of a full access junction for the TAA. Letters sent to BSC 30 June 2008 and 25 July 2008.
- Awaiting CEC Technical Approval for Roads in the area.

4.4 Lindsay Road Retaining Wall – W1 (Ch 100+170)

- IFC issued.

4.5 Substation – Leith Sands – SS16 (Ch 100+570)

- Forth Ports have completed construction of a new substation and access drive through this area. No as-built information available. SDS have requested change (DCR0111) to cover revised design requirements (ref. letter ULE90130-01-LET-00880).

**Subsection 1B**

1.1 Roads, Track, Drainage, Street Lighting & Landscaping – Subsection 1B

- IFC Issued. SDS still awaits final closeout of comments from CEC with respect to the demarcation between carriageway and tramway. This is delaying closeout report and Design

Assurance Statement. Possible change will arise out of CEC decision.

- Scottish Water (SW) Consents still outstanding. SDS have addressed all comments raised by SW.

#### 1.2 Tram Stop – Balfour Street (Ch 110+670)

- IFC Issued.

#### 1.3 Substation – Leith Walk – SS11 (Ch110+380)

- IFC Issued. SDS awaiting formalisation of building warrant approval from CEC.

### Subsection 1C1

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

- SDS finalising IFC drawings in response to CEC comments outstanding from TAA approval with comments. SDS still awaits final closeout of comments from CEC with respect to the demarcation between carriageway and tramway. This is delaying closeout report and Design Assurance Statement. Possible change will arise out of CEC decision. Approximately 99% complete.
- Scottish Water (SW) Consents still outstanding.

#### 1.2 Tram Stop – McDonald Road (Ch110+670)

- IFC Issued. .

### Subsection 1C2

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

- TAA submittal with CEC for approval.. SDS submitted supplemental information based on initial comments received from CEC via letter.
- Prior Approval with CEC.

2.2 Drainage – Subsection 1C

- TAA submittal with CEC for approval.. SDS submitted supplemental information based on initial comments received from CEC via letter.
- Scottish Water (SW) Consents still outstanding.

2.3 Substation – Cathedral Lane – SS12 (Ch120+400)

- SDS awaits required information from BSC to produce Building Warrant application.

2.4 Tram Stop – Picardy Place (Ch120+600)

- TAA submittal with CEC for approval.. SDS submitted supplemental information based on initial comments received from CEC via letter.
- Prior Approval with CEC.

**Subsection 1C3**

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

- SDS finalising IFC drawings in response to CEC comments outstanding from TAA approval with comments. SDS still awaits final closeout of comments from CEC with respect to the



demarcation between carriageway and tramway. This is delaying closeout report and Design Assurance Statement. Possible change will arise out of CEC decision. Approximately 99% complete.

- Scottish Water (SW) Consents still outstanding.

#### 2.4 Tram Stop – Princes Street (Ch121+950)

- Tramstops in section 1C3 are delayed due to the non receipt of RSA exceptions report and volume of comments. *Letter sent 27 August 2008*. Princes Street requires completion of the comments by Roads so that interfaces can be finalised. Further delay that has arisen from the previous sets of comments received. Approximately 95% complete.

#### 2.4 Tram Stop – St Andrews Square (Ch121+150)

- Tramstop delayed due to the non receipt of RSA exceptions report and volume of comments. *Letter sent 27 August 2008*.
- St. Andrew Square tramstop requires completion of the comments by Roads so that interfaces can be finalised. Further delay that has arisen from the previous sets of comments received. Approximately 95% complete.

### Subsection 1D

#### 1.1 Roads, Track, Drainage, Street Lighting and Landscaping – Subsection 1D

- ID Roads IFC late due to late return of TAA comments. Letters sent to BSC 04 June 2008 and 30 June 2008. The TAA comments are being delayed due to a change request at

Haymarket, and the need for the Modelling and RSA to be complete before approval can be granted.

- There is an outstanding change for the revision to lighting and relocation of cabinets. CEC response to comments is still outstanding. The modelling and RSA points are from CEC. SDS have submitted the RSA and the modelling has not been an issue for previous approvals. SDS awaits CEC TAA approval and any comments.
- Haymarket Junction Roads - SDS have submitted an updated Roads, Track, OLE and Street Lighting design to CEC in the Haymarket area to address the Road Safety Concern raised and consequently, CEC's non-acceptance of the originally instructed design. No formal comments (other than the non-acceptance of the RSA exception) from CEC on Section 1D have been received by SDS in accordance with the design submittal. Letter sent to BSC notifying of change on 12 August 2008 (our ref ULE90130-01-LET-00754).
- Haymarket Taxi Stand (Section 1D) - SDS have been advised informally by CEC that their Section 1D comments will contain a requirement to change the previously required bus lay-by in front of Haymarket station back to a taxi stance, similar to the existing condition. SDS notified BSC of change on 07 August 2008 (our ref ULE90130-01-LET-00751).
- SDS in the process of responding to CEC comments from TAA in anticipation of IFC submittal. Approximately 70% complete.

#### 1.2 Tram Stop – Shandwick Place (Ch130+710)

- There is an outstanding change for the movement of the Tramstop, revision to Street Lighting and relocation of cabinets. CEC response to comments is still outstanding. The modelling and RSA points are from CEC. SDS have since submitted the RSA and the modelling has



not been an issue for previous approvals. SDS awaits CEC TAA approval and any comments.

- Shandwick Place IFC late due to late return of TAA comments. Letter sent to BSC 04 June 2008 and 30 June 2008. CEC have come back with several comments on the Prior Approval under which we applied for the change. There has also been an additional landscaping issue that CEC were holding up the PA with respect to wider public realm. I believe that this was resolved yesterday. SDS awaits CEC TAA approval and any comments.
- On 14 August 2008, CEC provided a letter to SDS containing non-specific comments regarding the planning application submitted to CEC for Prior Approval on 25 April 2008. SDS provided requested information to CEC for their internal meeting on 22 August 2008. Meeting held on 25 September 2008 which outlined SDS' existing proposal to be retained.
- SDS in the process of responding to CEC comments from TAA in anticipation of IFC submittal. Require final resolution of comments by others (Roads) to complete. Approximately 90% complete.

## Section 2 Approvals

### Outstanding - Planning

#### Approvals:

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

#### Warrants:

- Warrants to be submitted: the Crew Relief facility at Haymarket Viaduct; and 20-22 Russell Road-Redpath McLean. BSC to provide method statements and plans. SDS cannot programme submission dates until this information is available.

### Outstanding - Technical:

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

## Subsection 2A

### 1.1 Roads, Track, Street Lighting and Landscaping – Subsection 2A

- IFC Issued 25 September 2008.

### 1.2 Substation – Russell Road – SS03 (Ch 200+790)

- IFC already issued

### 1.3 Russell Road Bridge – S20 (Ch 200+770)

- IFC already issued

### 1.4 Substation – Haymarket – SS02 (Ch 200+070)

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

### 1.5 Tram Stop – Haymarket (Ch 200+070)

- IFC already issued

### 1.6 Haymarket Station Viaduct – S19 (Ch 200+020)

- IFC already issued

### 1.7 Verity House Access road retaining wall

- An additional IFC was issued further to what is identified in v31 for the retaining wall required, on Network Rail land on 25<sup>th</sup> November '08.

Design Assurance Statement has been issued for this section.

### Section 3 Approvals

#### Outstanding – Planning:

Approvals:

- 3/16 West Pilton Tramstop. SDS awaiting Change Order from BSC to proceed with redesign of platform boundaries as specified by CEC Planning. Once this is received, SDS can progress amended design. This is the only issue delaying the granting of Prior Approval.
- Drainage information to be submitted to Scottish Water (SW) mid-December.

#### Outstanding - Technical:

- All 6 technical approvals that are with CEC for consideration are currently on hold due to the agreed prioritisation list.

### Subsection 3A

3.1 Roads, Track, Street Lighting and Landscaping – Subsection 3A

3.2 Tram Stop – Crewe Toll for Western General (Ch 303+010)

3.3 Roseburn Corridor Retaining Structure H (Ch 302+600) (Ch 303+030)

3.4 Tram Stop – Telford Road (Ch 302+604)

- 3.5 Roseburn Corridor Retaining Structure G (Ch 302+300) (Ch 302+600)
- 3.6 Telford Road Bridge – S10 (Ch 302+220)
- 3.7 Groathill Road South Bridge – S09 (Ch 302+010)
- 3.8 Substation – Craigleith – SS13 (Ch 301+960)
- 3.9 Roseburn Corridor Retaining Structure F (Ch301+900) (Ch 302+300)
- 3.10 Tram Stop – Craigleith (Ch 301+860)
- 3.11 Queensferry Road Bridge – S07 (Ch 301+700)
- 3.12 Holiday Inn Access Bridge – S07 (Ch 301+630)
- 3.13 Roseburn Corridor Retaining Structure E (Ch 301+600) (Ch 301+900)
- 3.14 Craigleith Drive Bridge – S06 (Ch 301+320)
- 3.15 Roseburn Corridor Retaining Structure D (Ch 301+200) (Ch 301+600)
- 3.16 Ravelston Dykes Bridge – S05 (Ch 300+960)
- 3.17 Roseburn Corridor Retaining Structure C (Ch 300+900) (Ch 301+200)
- 3.18 Tram Stop – Ravelston (Ch 300+860)

- 3.19 St George's School Footbridge – S04 (Ch 300+650)
- 3.20 St George's School Access Bridge – S03 (300+640)
- 3.21 Roseburn Corridor Retaining Structure B (Ch 300+500) (Ch 300+900)
- 3.22 Coltbridge Viaduct – S02 (Ch 300+470)
- 3.23 Tram Stop – Roseburn (Ch 300+260)
- 3.24 Roseburn Terrace Bridge – S01 (Ch 300+210)
- 3.25 Roseburn Corridor Retaining Structure A (Ch 300+200) (Ch 300+500)

### Subsection 3B

#### 1.1 Roads, Track, Street Lighting and landscaping – Subsection 3B

- 3B Roads, Drainage and Street Lighting IFC is outstanding as TAA comments are outstanding. Section 3 has been de-prioritised by CEC therefore it is not known at present when comments are likely to be received. Letter sent to BSC 08 July 2008. **tie** responded 07 August 2008 (SDS received 27 August 2008) accepting there has been delay to IFC. **tie** stated expected IFC submission 09 August 2008, which was not achieved.

*The deprioritisation is apparently as per tie to CEC agreement. SDS awaits approval and any comments.*

1.2 Drainage – Subsection 3B

1.2.1 Tram Stop – Caroline Park (Ch 311+310)

1.2.2 Substation – Granton Mains East – SS14 (Ch 310+950)

1.2.3 Tram Stop – West Pilton (Ch 310+670) – Awaiting Change Instruction

1.2.4 Crewe Road Gardens Bridge – S12 (Ch 310+390)

**Subsection 3C**

1.1 Roads, Track, Street Lighting and Landscaping – Subsection 3C

- 3C Roads, Drainage and Street Lighting IFC is outstanding as TAA comments are outstanding. Section 3 has been deprioritised by CEC therefore it is not know at present when comments are likely to be received. Letter sent to BSC 08 July 2008. **tie** responded 07 August 2008 (SDS received 27 August 2008) accepting there has been delay to IFC. **tie** stated expected IFC submission 09 August 2008, which was not achieved. The deprioritisation is as tie to CEC agreement. SDS awaits approval and any comments.

1.2 Drainage – Subsection 3C

1.3 Tram Stop – Saltire Square (Ch 320+370)

1.4 Tram Stop – Granton (Ch 321+120)

1.5 Substation – Granton Road – SS15 (Ch 400+020)

### Section 5 Approvals

#### Outstanding - Planning:

##### Approvals:

- 5/06 Murrayfield Stadium Tramstop is pending consideration but on hold. SDS awaiting Change Order from BSC so it can resubmit.
- 5/07a – Murrayfield Accommodation Works (Full Planning Permission). BSC to issue instruction and provide programme of works.
- 5/30 - Tram Stop Gogarburn. RBS concept design now with tie. Tie has instructed BSC on 14 October 2008. BSC to instruct SDS.

##### Warrants:

- 1 remaining warrant to be submitted (112 Roseburn St-JB McLean). BSC to provide method statements and plans. Until this information is received, SDS cannot programme submission dates. SDS requires access to the building to respond to CEC comment – requested from tie on several occasions. Not provided to date.

#### Outstanding - Technical:

- Close out reports with CEC on Roads 5B and 5C. Approvals expected by mid December.
- Balgreen Road Network Rail Access Bridge to be submitted to CEC and Network Rail on 21 November 2008.

### Subsection 5A

1.1 Roads, Track, Street Lighting and Landscaping – Subsection 5A

•5A Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments. Partial submission made only. Partial submission refers to the Murrayfield Tramstop which is on hold. SDS in process of responding to CEC TAA comments in anticipation of IFC.

• SW drainage submitted.

1.2 Drainage – Subsection 5A

- As above
- Scottish Water (SW) Consents still outstanding.

1.3 Balgreen Road Tram Bridge – S22 (Ch 511+400)

- IFC already issued

1.4 Balgreen Road Network Rail Access Bridge (Ch 511+410)

- Due in 2009 for IFC.

1.5 Baird Drive Retaining Wall – W8 (Ch 511+190)

- IFC already issued

1.6 Water of Leith Bridge – S21E (Ch 511+060)

- IFC already issued – may be altered due to Pending change re: sewer clash



1.7 Murrayfield Training Pitches Retaining Wall (Ch 510+870) (Ch 511-060)

- IFC already issued

1.8 Murrayfield Stadium Underpass – S21C (Ch 510+860)

- IFC already issued

1.9 Murrayfield Stadium retaining Wall – S21B (Ch 510+650) (Ch 510-870)

- IFC already issued

1.10 Roseburn Street Viaduct – S21A (Ch 510+580)

- SDS await a Change Order to undertake the Preliminary design work from BSC and then a subsequent instruction for the full design of Roseburn St Viaduct. SDS await Change Notification of the Accommodation works design due to the changes required to comply with the SRU agreement and Roseburn Viaduct VE if required.

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

- Delay to Murrayfield Stadium Tram Stop and Murrayfield Stop retaining walls IFC. Change Estimate DCR0019 was issued on 18/08/08. The IFC's are already delayed for these items. SDS await a Change Order from BSC in order to progress the re-design and approval of these items.

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1.12 Tram Stop – Murrayfield (Ch 510-470)

- Delay to Murrayfield Stadium Tram Stop and Murrayfield Stop retaining walls IFC. Change Estimate DCR0019 was issued on 18 August 2008. The IFC's are already delayed for these items. SDS await a Change Order from BSC in order to progress the re-design and approval of these items.

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

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

1.14 Russell Road Retaining Wall 2 – W4 (Ch 510-150)

- IFC already Issued

**Subsection 5B**

1.1 Roads, Track, Drainage, Street Lighting and Landscaping – Subsection 5B

- Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments initially, followed by the volume of comments. Letter sent to BSC 15 July 2008. Late return of Prior Approval also. Letter sent to BSC 27 June 2008. SDS is working through these comments now. There is a follow on delay that has arisen from the previous sets of comments received. These are approximately 99% complete.
- Scottish Water (SW) Consents still outstanding.

1.1.1 Tram Stop – Edinburgh Park Central (Ch 524+530)

- IFC already Issued

1.1.2 Edinburgh Park Station Bridge – S27 (Ch 524+010)

- IFC already Issued

1.1.3 Tram Stop – Edinburgh Park Station (Ch 523+740)

- IFC already Issued

1.2 Tram Stop – Bankhead (Ch 522+960)

- IFC already Issued

1.2.1 Bankhead Drive Retaining Wall – W11 (Ch 522+800)

- IFC already Issued

1.2.2 South Gyle Access Bridge – S26 (Ch 522+750)

- IFC already Issued

1.2.3 Substation – Bankhead Drive – SS22 (Ch 522+580)

- Prior Approval already Granted, Siemens to complete the design and issue IFC.

1.3 Tram Stop – Saughton (Ch 521+690)

- IFC already Issued

1.3.1 Carrick Knowe Underbridge – S23 (Ch 521+030)

- IFC already Issued

1.3.2 Substation – Jenners Depository (Balgreen) – SS21 (Ch 520+060)

- Prior Approval already Granted, Siemens to complete the design and issue IFC.

1.3.3 Tram Stop – Balgreen (Ch 520+050)

- IFC already Issued

**Subsection 5C**

1.1 Roads, Track, Drainage, Street Lighting and Landscaping – Subsection 5C

- 5C Roads, Drainage and Street Lighting IFC is outstanding due to delayed TAA comments. Letter sent to BSC 15 July 2008. SDS is working through these comments which have now been received. There is further delay that has arisen from the previous sets of comments received. These are now approximately 95% complete.
- Scottish Water (SW) Consents still outstanding.

1.2 Tram stop – Gogarbum (Ch 531+860)

- On hold as instructed by tie awaiting RBS concept design

1.3 Depot Access bridge – S32 (Ch531+230)

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

1.4 A8 Underpass – S28 (Ch 531+000)

- IFC already Issued

1.5 Tram Stop – Gyle Centre (Ch 530+770)

- IFC already Issued

1.6 Gyle Stop Retaining Wall – W19 (Ch 530+750)

- IFC already Issued

**Section 6 Approvals**

**Outstanding - Planning:**

Warrants:

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

**Outstanding - Technical:**

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

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- Roads and 6 Drainage

#### Subsection 6

##### 1.1 Roads, Street Lighting & Landscaping – Subsection 6 – Depot

- With CEC for Technical Approval. Design being updated based on initial CEC comments.

##### 1.2 Drainage – Subsection 6 – Depot

- Scottish Water (SW) Consents still outstanding.

##### 1.3 Depot Earthworks

##### 1.4 Depot Internal Retaining Walls

##### 1.5 Depot Ductwork – External Services

##### 1.6 Depot General Layout

##### 1.7 Depot Building Foundations

##### 1.8 Depot Main Building

##### 1.9 Ground Floor Slab and Pits

##### 1.10 Depot Building Steel Superstructure

##### 1.11 Track – Subsection 6 – Depot

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1.12 Depot Halt

1.13 OLE in Depot

1.14 Substation – Gogar Depot – SS01

### Section 7 Approvals

#### Outstanding - Planning:

Approvals:

- Remaining planning approval with CEC is 7/29 Airport Tramstop. SDS awaiting change order from BSC.

#### Subsection 7A

1.1 Roads, Track, Drainage, Street Lighting and Landscaping

- TAA comments received from CEC. SDS are currently compiling responses in anticipation of IFC. Approximately 65% complete.

1.2 Species Mitigation Plan

- Issued as approved by SNH

1.3 Tram Stop – Edinburgh Airport (Ch 712+560)

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

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- Relocation of Burnside Road - This is construction critical, as BBS are aware, and the phasing of this will drive the design in the Airport area in some key areas. SDS issued a Change Estimate for a Feasibility Study to design the diversion of Burnside Road on 25<sup>th</sup> August 2008. SDS await further instruction with regard to this change.

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

- CEC request amendment to finish which will delay IFC

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

- Delay of Prior Approval Batch 7/29 will delay IFC

1.6 Gogarburn Culvert Three – S34 (Ch712+030)

- IFC already Issued

1.7 Gogarburn Culvert Two – S31 (711+830)

- IFC already Issued

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

- IFC delayed due to Change Order form tie for SDS to design road and pedestrian links to Tram Stop. Design is ongoing.

1.8.1 Substation – Tram Eastfield Road (Ch 711-630)

- PA granted. Siemens to issue IFC upon completion of their design.

1.9 Gogarburn Culvert One – S30 (Ch 711+420)

- IFC already Issued



1.10 Gogarburn Bridge – S29 (Ch 710+400)

- IFC already Issued

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**DESIGN PROGRESS SUMMARY**

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**IFC STATUS**

A table indicating the status of the Issue for Construction packages is included in Appendix 2 of this report.

**DESIGN STATUS**

A summary of design overall design progress is as follows (Note: Figures correct as at Friday 21 November 2008. Figures in brackets are estimated approval numbers by 19 December);

<b>Total Number of Detailed Design Packages</b>	<b>Total Delivered</b>	<b>Total Outstanding</b>	
329	320	9	
<b>Total Number of Planning/PA/Building Warrant Packages</b>	<b>Total Approved</b>	<b>Total Pending Approval</b>	<b>Total Remaining to be Submitted</b>
99	72 (80)	16 (8)	11(11)
<b>Total Number of Technical Approval Packages</b>	<b>Total Approved</b>	<b>Total Pending Approval</b>	<b>Total Remaining to be Submitted</b>
116	84 (94)	27 (17)	5 (5)
<b>Total Number of IFC Packages</b>	<b>Total Delivered</b>	<b>Total Outstanding</b>	
115	79	34	

Comment [A1]: To be updated by others

Comment [A2]: To be updated by others

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## SDS APPROVALS ISSUES

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### GENERAL

SDS continues to make good progress towards gaining all the necessary planning and technical approvals.

From a total of 214 approvals:

- 81% are approved (174). Up from 73%
- 12% are pending approval (26). Down from 19%
- 7% are to be submitted (16). Down from 8%

*Note: Figures and Percentages reflect forecast to Friday 15 November 2008*

The CEC/tie/BSC/SDS Approvals Task Force continues to meet weekly and is proving to be a productive catalyst for troubleshooting any Approval issues and clearly identifying actions for the group to resolve.

The Approvals Look Ahead and Approvals Trackers are emailed to BSC (Stefan Rotthaus) on a weekly basis.

Key Issues:

- **Building Warrants** – There are 16 warrants in total; 4 have been approved, 6 are pending consideration and 6 have yet to be submitted. SDS is still awaiting certain method statements, plans and confirmation of costs for outstanding warrants from BSC and its subcontractors. This remains partly unresolved from previous Progress reports.

- **Prior Approvals.** Only 4 left to submit. SDS is continuing to inform BSC of the delays or potential delays to SDS Prior and Technical approvals due to the change requested to the design by CEC/**tie** during formal application process. SDS requires formal instruction on these issues.

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

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

- **Drainage Consents.** SDS, BSC and **tie** is continuing to work closely with Scottish Water to progress the outstanding drainage consents.
- **Technical Approvals (Roads).** Remaining design issues are being progressed at weekly Technical meetings with CEC. Prioritisation programme agreed with CEC meaning that the 6 Consents on Section 3 scheduled for approval on 31/10/08 are on hold. Number of Closeout reports for Roads Design being progressed by CEC.
- **Technical Approvals (Structures).** Only 1 submission remains outstanding (Balgreen Road - submission due on 21.11.08). All others are either approved or with CEC for approval.

## UTILITIES

### 1A

- Section 1A (1-5) conflicts within the LOD have been issued for Approval, tie have issued a change instruction for those works outside the LOD, SDS awaiting information on existing utilities outside the LOD from tie before able to proceed.
- Section 1A (6-10) tie have instructed that the design should commence based on the Forth Ports information issued on the 16 Sep 08. tie are currently in discussions with Forth Ports with regard requested diversion works from Forth Ports. tie are to produce a scope of what they require in order that SDS can assess the impact and cost.
- Section 1A (11-12) has been issued out for Approval
- Section 1A (13-20) IFC drawings have been issued to tie

### 1B

- IFC drawings have been issued to tie
- The IDC has been carried out and issued to tie showing the conflicts between the Utilities IFC infrastructure design and the Approved infrastructure design.

### 1C

- IFC drawings have been issued to tie (except Scottish Water Sewers at Picardy Place).
- 1C (Picardy Place) tie have requested that SDS compare the IFC design with the roads and track layout issued to CEC for approval, The IDC has been

carried out and issued to tie showing the conflicts between the designs. The key area of conflict is a revised track position adjacent to Elm Row.

- Approval drawings for the Mound 24<sup>th</sup> MP Gas diversion have been issued to tie for review and as agreed awaiting confirmation from tie prior to issue for approval to SGN.

1D

- IFC drawings have been issued to tie
- As part of the IDC process SDS have highlighted additional/revised conflicts required due to the re-alignment of the tracks in the Haymarket junction. SDS and tie are undertaking a joint review to minimise the impact of the redesign on the utility diversion.

2A

- IFC drawings have been issued to tie (except Scottish Water Sewers)
- The sewer diversions have been issued for approval, discussions ongoing with Scottish Water and awaiting RoR from tie.

5A

- IFC drawings have been issued to tie (except Scottish Water Sewers)
- Water of Leith pier foundation under review to avoid existing sewer.

5B

- IFC drawings have been issued to tie



- All sewer design issued for IFC except at South Gyle Access, design approved by Scottish water awaiting resolution of Change Estimate submitted.

5C

- IFC drawings have been issued to tie

6

- IFC drawings have been issued to tie
- The 800 watermain the depot requires to be removed and reinstalled, SDS are supplying design support under instruction from tie.

7A

- 7A was carried out under RATS, tie to supply XYZ coordinate as-builts for comparison to design and issue any required IFC's.
- Gogar landfill sewer approved by SW, on hold by tie until Landfill VE undertaken and more information has been collected.
- 7B(utilities section) design being carried out by others.

## Appendix 1

# PROGRAMME VARIANCE REPORT

## Appendix 2

# CRITICAL ISSUES DRAWINGS