

Edinburgh Tram Network

Design Assurance Statement – Section 1A

Doc. Ref: ULE90130-01-FOR-00020 V3

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*Parsons Brinckerhoff Ltd
Edinburgh Tram Network
SDS Provider
1st Floor, City Point
65 Haymarket Terrace
Edinburgh, EH12 5HD*

*Telephone: 44(0) 131 623 8600
Facsimile: 44(0) 131 623 8601
Email: edinburghtram@pbworld.com*

AUTHORISATION PAGE

Title: Design Assurance Statement – Section 1A				
Approvals	Name	Position	Signed	Date
Compiled by	S. Ney	Design Manager		29 Jul 10
Reviewed by	A. Dolan	Deputy Project Manager		29 Jul 10
Approved by	J Chandler	Project Manager		29 Jul 10

Revision History

Ver No	Date	Description	Prepared By
1	07 Oct 08	Issue to CEC For Information	V Matthews
2	22 Jun 09	Draft Issue for Information	S Ney
3	29 Jul 10	Update to Include design amendments (point in time)	A Dolan

Distribution

Ver No	Date	Name	Role	Company
1	07 Oct 08	Duncan Fraser	Tram Coordinator	CEC
2	22 Jun 09	Martin Foerder	Project Director	BSC
3	29 Jul 10	Martin Foerder	Project Director	BSC

EDINBURGH TRAM NETWORK DESIGN ASSURANCE STATEMENT

a) SUBMISSION DETAILS / TITLE:

Section / Sub-Section to which this Certificate Relates: Section 1A

Date of Issue: 29 July 2010

This Design Assurance Statement (DAS) has been produced as part of the SDS self assurance process. A Design Assurance checklist has been developed to accompany all completed subsection design submissions. The checklist is effectively a statement from SDS that the completed design, within SDS scope (as detailed in the drawings and specifications below), is "Fit for Purpose". This statement will provide confidence that SDS has a robust self assurance process in place, and provides a summary of the design submission, enables exceptions to be declared, and facilitates the design review and approvals process.

There are several changes that have been instructed since the last submittal of this document. These changes include DCRs: 0006, 0080, 0096, 0100, 0103, 0111, 0130, 0131, 0141, 0147, 0152, 0166, 0175, 0202, 0203, 0232, 0240, 0243, 0244, 0248, 0249, 0259, 0270

Outstanding Requirements:

- CEC Closeout of Roads Design 1A3, 1A4 **Action CEC/tie.**
- Need confirmation of TRO order made so no further changes to design **Action CEC/tie. Statement to be advised by CEC/tie.**
- Finalise interface with Constitution Street Graveyard Wall (CEC project) 1A4 **Action CEC/tie**
- Closeout of Technical Informatives **Equipment/Componentry Deliverables to be provided by BSC. Any changes due to CEC non-approval of BSC componentry may result in changes to SDS design**
- Closeout of Planning Informatives **Equipment/Componentry Deliverables to be provided by BSC. Any changes due to CEC non-approval of BSC componentry may result in changes to SDS design**

The information contained within this DAS is accurate for the SDS base design as of the date of submittal. Any subsequent revisions, including those due to changes in scope, will be addressed separately as required.

b) Summary of Section / Sub-Section Submission:

Subsection 1A is 2.7km in length and contains the Tram alignment from the junction of Lindsay Road and Newhaven Place along Ocean Drive and Constitution Street to north east of the junction of Constitution Street, Leith Walk, Great Junction Street and Duke Street. The tram alignment is within the borough of Leith and is linear in shape, entirely along the roadway with a Traction Power Substation located at North Leith Sands.

The site is approximately 3km north of Edinburgh City Centre. The section also includes junctions and accesses; Annfield, ADM Milling, Ocean Terminal, Rennie's Isle, Tower Place, Tower Street, Baltic Street, Bernard Street, Maritime Lane, Mitchell Street, Charlotte Street, Coalfield Lane, Links Lane, Kirkgate House and Laurie Street. It is generally bounded by a mix of mostly residential developments from proposed to completed, and business including the Scottish Executive and Retail at Ocean Terminal.

The port of Leith is a historic area under redevelopment.

There is one scissors crossover just east of Newhaven Tram Stop to facilitate regular tumbback operations. Additionally there are two crossovers in the vicinity of Ocean Terminal Tram Stop to facilitate operations. Track and OLE have been established not to preclude the future installation of a scissors crossover to the north of Ocean Terminal Tram Stop.

The application also includes Newhaven, Ocean Terminal, Port of Leith, Bernard Street and Foot of the Walk Tram Stops, North Leith Sands Substation, Lindsay Road Retaining Wall, Ocean Drive Retaining Walls, Tower Place Bridge and Victoria Docks Entrance Bridge.

Newhaven Tram Stop is located at the junction of Lindsay Road and Annfield to the north of the roadway. Ocean Terminal Tram Stop is located opposite the main (pedestrian) entrance to Ocean Terminal Shopping Centre. Port of Leith Tram Stop is located in the eastern end of Ocean Drive. Bernard Street Tram Stop is located on Constitution Street within the roadway south of the junction of Constitution Street / Bernard Street and Baltic Street, in front of the Assembly Buildings. Foot of the Walk Tram Stop is located at the south end of Constitution

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Street at the junction with Leith Walk, Great Junction Street and Duke Street.

North Leith Sands Substation is located to the north west of the junction of North Leith Sands and Portland Road, adjacent to other substations owned by others.

There is new soft landscaping proposed as part of the Tram within this subsection at the new junction of Lindsay Road and Ocean Drive, outside Ocean Terminal, at the casino, and within the new public realm at Bernard Street.

There are several Category “A”, “B” and “C” Listed Buildings in Subsection 1A, some of which are also listed in Schedule 10 of the Tram (Line 1) Act:

A Listed

29-31a (odd nos) and 35 Constitution Street and 9 Baltic Street, Former Corn Exchange

37-43 (odd nos) Constitution Street and 49 Assembly Street, Exchange Buildings – Schedule 10

29-41 (odd Nos) Queen Charlotte Street, Leith Police Station, Former Town Hall And Railings – Schedule 10

92 Constitution Street and 27 Queen Charlotte Street

Robert Burns Statue – Schedule 10

B Listed

Leith Docks, Victoria Dock and Lock Gates

Leith Docks, Victoria Swing Bridge

Leith Docks, Alexandra Dry Dock

Leith Docks, Alexandra Dry Dock Hydraulic Station

Leith Docks, Albert Dock with Swing Bridge

Leith Docks, Prince of Wales Dry Dock, Hydraulic Station

Leith Docks, Prince of Wales Dry Dock

Leith Docks, Edinburgh Dry Dock Pumping House

2 Bernard Street and 28 Constitution Street

Bernard Street, Robert Burns Statue – Schedule 10

1-13 (odd nos) Bernard Street, 30-34 (even nos) Constitution Street, Waterloo Buildings

36-42 (even nos) Constitution Street

45-53 (odd nos) Constitution Street

44, 44a, 46 and 46a Constitution Street

55 Constitution Street with Boundary Walls and Railings

57 Constitution Street and 47 Mitchell Street, Leith Post Office 042

59-65 (odd nos) Constitution Street with Railings

60 Constitution Street

68 Constitution Street with Gatepiers and Railings

84 Constitution Street

86-90 (even nos) Constitution Street

28-42 (even nos) Queen Charlotte Street and 94 Constitution Street and 1 Queen Charlotte Lane

C Listed

1-19 (inclusive nos) Annfield

Leith Docks, Tower Place, Harbour and Dock Offices

69 and 71 Constitution Street, Former St John’s East Church (c of S) – Schedule 10

74 and 76 Constitution Street

78 and 80 Constitution Street

The Victoria Docks Swing Bridge is a Scheduled Ancient Monument.

The Dock Entrance Gates located at the junction of Constitution Street and Tower Street are to be retained.

There are a number of monuments / pieces of public art which will be located as part of the Tram scheme:

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- Ocean Terminal Sign – relocated (as part of Forth Ports Development)
- Ocean Terminal Statue – relocated (as part of Forth Ports Development)
- Robert Burns Statue at the junction of Constitution Street and Bernard Street – to be relocated slightly north as agreed with CEC (Listed Building Consent is required for this relocation)

Building Fixings are proposed along Constitution Street and the approach to the north end of Leith Walk, and Ocean Drive at the north end of Constitution Street. Building Fixings proposed on Listed Buildings within Schedule 10 of the Tram (Line 1) Act require Listed Building Consent (LBC):

Harbour and Dock Office, Ocean Drive (2 fixings)

4 Constitution Street (2 fixings)

6-10a Constitution Street (1 fixing)

10b-12 Constitution Street (1 fixing)

28 Constitution Street (1 fixing)

29-35 Constitution Street (2 fixings)

35 Constitution Street (1 fixing)

30-34 Constitution Street (1 fixing)

37-41 Constitution Street (1 fixing)

2 Bernard Street (1 fixing)

37-43 Constitution Street Leith Assembly Rooms (2 fixings) Schedule 10 (LBC Required)

42 Constitution Street (1 fixing)

55 Constitution Street (1 fixing)

57 Constitution Street (1 fixing)

59 Constitution Street (1 fixing)

60 Constitution Street (1 fixing)

64 Constitution Street (1 fixing)

75-79 Constitution Street (1 fixing)

81 Constitution Street Leith Police Station (Formerly Leith Town Hall) (1 fixing) (LBC Required)

87 Constitution Street (1 fixing)

88-90 Constitution Street (1 fixing)

92 Constitution Street (1 fixing)

93-95 Constitution Street (1 fixing)

94 Constitution Street (1 fixing)

101-103 Constitution Street (1 fixing)

108 Constitution Street (1 fixing)

125 Constitution Street (1 fixing)

133 Constitution Street (2 fixings)

137 Constitution Street (1 fixing)

141 Constitution Street (1 fixing)

149 Constitution Street (1 fixing)

159 Constitution Street (1 fixing)

161 Constitution Street (1 fixing)

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165-181 Constitution Street (1 fixing)
 170-174 Constitution Street (2 fixings)
 181 Constitution Street (1 fixing)
 183 Constitution Street (1 fixing)

In general and when practical, OLE poles are centre poles. Where space does not exist for centre poles, side poles are used. All poles will be tapered in shape and painted grey in accordance with the requirements of CEC Planning Authority.

There are two bridges in 1A. Tower Place Bridge will be widened to the south to support a new pedestrian footway / cycleway as part of the Tram works. Victoria Docks Entrance Bridge will not be widened, but will have the parapets upgraded to meet current requirements as part of the Tram works. The existing Lindsay Road retaining Wall is to be removed and 4 new walls will be constructed in the area to accommodate the levels changes.

As part of the Tram works / operations bus stops / shelters will be rationalised / relocated in accordance with the locations agreed with TEL.

TROs and TTROs are relevant to this section.

Drainage and Utilities design form part of this technical submission.

c) Submission Specific Design Documents:

Newhaven Tram Stop Batch 1 / 01a Design Statement - ULE90130-01-REP-00072 v3
 Lindsay Road Retaining Walls Batch 1 / 01b Design Statement - ULE90130-01-REP-00112 v2
 Ocean Drive Retaining Walls Batch 1 / 01c Design Statement - ULE90130-01-REP-00113 v2
 Ocean Terminal Tram Stop Batch 1 / 02 Design Statement - ULE90130-01-REP-00065 v1
 Bypass Road Batch 1 / 02a Design Statement – ULE90130-01-REP-00115 v2
 North Leith Sands Substation Batch 1 / 03 Design Statement - ULE90130-01-REP-00049 v2
 Line of Route – Ocean Drive Batch 1 / 04 Design Statement - ULE90130-01-REP-00114 v1
 Victoria Docks Entrance Bridge Batch 1 / 04a – ULE90130-01-REP-00066 v2
 Tower Place Bridge Batch 1 / 05 Design Statement - ULE90130-01-REP-00067 v2
 Port of Leith Tram Stop Batch 1 / 06 Design Statement - ULE90130-01-REP-00064 v2
 Bernard Street Tram Stop Batch 1 / 07 Design Statement - ULE90130-01-REP-00061 v2
 Leith Assembly Rooms Batch 1 / 07a Listed Building Consent - Design Statement – ULE90130-01-REP-00098 v2
 Leith Police Station Batch 1 / 07b Listed Building Consent - Design Statement – ULE90130-01-REP-00099 v2
 Robert Burns Statue Relocation Batch 1 / 07c Listed Building Consent - Design Statement – ULE90130-01-REP-00107 v1
 Foot of the Walk Tram Stop Batch 1 / 08 Design Statement - ULE90130-01-REP-00063 v2

Roads

Roads Technical Design Statement Section 1A - ULE90130-01-REP-00011 v1
 Roads Technical Design Statement Section 1A - ULE90130-01-REP-00057 v2
 Stage 1 Road Safety Audit Report Section 1 – ULE90130-01-REP-00038 v2
 Stage 1 Road Safety Audit Report Section 1 - Designer's Response – ULE90130-01-REP-00041 v1
 Stage 2 Road Safety Audit Report Section 1A (Sub section 1A(1A1 and 1A2)) – ULE90130-01-REP-00122 v1
 Stage 2 Road Safety Audit Report Section 1A (Sub section 1A(1A1 and 1A2)) - Designers Response – ULE90130-01-REP-00121 v2
 Stage 2 Road Safety Audit Report Section 1A (Sub section 1A(3)) – ULE90130-01-REP-00XXX v1
 Stage 2 Road Safety Audit Report Section 1A (Sub section 1A(3)) - Designers Response – ULE90130-01-REP-

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00XXX v1

Stage 2 Road Safety Audit Report Section 1A (Sub section 1A(4)) – ULE90130-01-REP-00138 v1

Stage 2 Road Safety Audit Report Section 1A Section 1A4, Newhaven - Designers Response – ULE90130-01-REP-00137 v1

Drainage

Schedule ULE90130-01-SCH-00010 v8

StructuresLindsay Road Retaining WallsCondition Survey

ULE90130-01-01-REP-00031 v1

Approval in Principle

ULE90130-SW-REP-00055 v4

Schedules

ULE90130-01-RTW-00032 v3

ULE90130-01-RTW-00033 v3

ULE90130-01-RTW-00034 v3

ULE90130-01-RTW-00035 v3

ULE90130-01-RTW-00036 v3

ULE90130-01-RTW-00037 v3

ULE90130-01-RTW-00038 v3

ULE90130-01-RTW-00039 v3

ULE90130-01-RTW-00043 v3

ULE90130-01-RTW-00064 v3

ULE90130-01-RTW-00068 v3

CAT Check Certificates

ULE90130-01-FOR-00007 v1

ULE90130-01-FOR-00127 v1

Victoria Docks Entrance BridgeCondition Survey

ULE90130-01-REP-00032 v1

Approval in Principle

ULE90130-SW-REP-00042 v6

Assessment Report

ULE90130-01-REP-00119 v1

Schedules

ULE90130-01-BRG-00024 v3

ULE90130-01-BRG-00025 v2

CAT Check Certificates

ULE90130-01-FOR-00006 v1

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ULE90130-01-FOR-00123 v1

ULE90130-01-FOR-00135 v1

Tower Place Bridge

Condition Survey

ULE90130-01-REP-00033 v1

Approval in Principle

ULE90130-SW-REP-00026 v5

Structures Departure Report – 2.50m Footway / Cycleway Width

ULE90130-01-FOR-00164 v1

Structures Departure Report – Termination of North East Vehicle Parapet

ULE90130-01-FOR-00165 v1

Structures Departure Report – 0.45m Northern Verge Width

ULE90130-01-FOR-00166 v1

Structures Departure Report – Brief Trief Kerbs

ULE90130-01-FOR-00167 v

Structures Departure Report – Termination of South West Vehicle Parapet

ULE90130-01-FOR-00168 v1

Schedules

ULE90130-01-BRG-00110 v5

ULE90130-01-BRG-00111 v4

ULE90130-01-BRG-00112 v6

ULE90130-01-BRG-00113 v6

ULE90130-01-BRG-00114 v5

ULE90130-01-BRG-00115 v7

ULE90130-01-BRG-00116 v5

ULE90130-01-BRG-00117 v5

ULE90130-01-BRG-00118 v4

ULE90130-01-BRG-00119 v4

ULE90130-01-BRG-00120 v4

ULE90130-01-BRG-00121 v4

ULE90130-01-BRG-00122 v6

ULE90130-01-BRG-00123 v2

CAT Check Certificates

ULE90130-01-FOR-00004 v2

ULE90130-01-FOR-00005 v2

ULE90130-01-FOR-00136 v1

Street Lighting

Calculations - ULE90130-01-CAL-00127 v3

Earthworks

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ULE90130-SW-REP-00207 v5

Utilities

Diversion Schedules

ULE90130-01-CAL-00022

ULE90130-01-CAL-00028

ULE90130-01-CAL-00029

ULE90130-01-CAL-00030

ULE90130-01-CAL-00031

ULE90130-01-CAL-00032

ULE90130-01-CAL-00033

ULE90130-01-CAL-00034

ULE90130-01-CAL-00035

ULE90130-01-CAL-00103

ULE90130-01-CAL-00104

ULE90130-01-CAL-00105

ULE90130-01-CAL-00107

ULE90130-01-CAL-00108

ULE90130-01-CAL-00109

ULE90130-01-CAL-00110

ULE90130-01-CAL-00111

ULE90130-01-CAL-00112

ULE90130-01-CAL-00113

ULE90130-01-CAL-00114

ULE90130-01-CAL-00115

ULE90130-01-CAL-00116

ULE90130-01-CAL-00117

ULE90130-01-CAL-00118

ULE90130-01-CAL-00119

ULE90130-01-CAL-00120

Record of Review

Document refs TBC

Have all Submission Specific Design Documents been reviewed, approved and under version control (in Hummingbird)?

Yes

No

Comments

Additional documentation for Section 1A3 to be confirmed.

Document versions will be updated with IFC as appropriate.

Documents and versions to be confirmed with final version of document.

d) Submission Specific Drawings:

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Planning

Newhaven Tram Stop Batch 1 / 01a

ULE90130-01-PLG-00107 v2

ULE90130-01-PLG-00144 v2

ULE90130-01-PLG-00147 v2

ULE90130-01-PLG-00157 v2

ULE90130-01-PLG-00164 v3

ULE90130-01-PLG-00167 v3

ULE90130-01-PLG-00177 v3

ULE90130-01-PLG-00187 v2

ULE90130-01-PLG-00214 v2

ULE90130-01-PLG-00218 v2

Lindsay Road Retaining Wall Batch 1 / 01b

ULE90130-01-PLG-00094 v3

ULE90130-01-PLG-00095 v2

ULE90130-01-PLG-00108 v2

ULE90130-01-PLG-00145 v2

ULE90130-01-PLG-00165 v3

Ocean Drive Retaining Walls Batch 1 / 01c

ULE90130-01-PLG-00109 v2

ULE90130-01-PLG-00149 v2

ULE90130-01-PLG-00169 v3

ULE90130-01-PLG-00188 v3

ULE90130-01-PLG-00189 v3

Ocean Terminal Tram Stop Batch 1 / 02

ULE90130-01-PLG-00002 v3

ULE90130-01-PLG-00023 v4

ULE90130-01-PLG-00024 v3

ULE90130-01-PLG-00053 v4

ULE90130-01-PLG-00054 v3

ULE90130-01-PLG-00140 v3

ULE90130-01-PLG-00142 v2

ULE90130-01-PLG-00143 v3

ULE90130-01-PLG-00215 v1

Bypass Road Batch 1 / 02a

ULE90130-01-PLG-00150 v1

ULE90130-01-PLG-00181 v1

ULE90130-01-PLG-00184 v2

ULE90130-01-PLG-00185 v2

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ULE90130-01-PLG-00186 v2
ULE90130-01-PLG-00289 v1
Tram North Leith Sands Substation Batch 1 / 03
ULE90130-01-PLG-00210 v2
ULE90130-01-PLG-00211 v2
ULE90130-01-PLG-00212 v2
ULE90130-01-PLG-00213 v2
Line of Route – Ocean Drive Batch 1 / 04
ULE90130-01-PLG-00148 v1
ULE90130-01-PLG-00158 v1
ULE90130-01-PLG-00178 v2
Victoria Docks Entrance Bridge Batch 1 / 04a
ULE90130-01-PLG-00247 v2
ULE90130-01-PLG-00248 v2
ULE90130-01-PLG-00249 v2
ULE90130-01-PLG-00250 v2
Tower Place Bridge Batch 1 / 05
ULE90130-01-PLG-00272 v3
ULE90130-01-PLG-00273 v2
ULE90130-01-PLG-00274 v1
ULE90130-01-PLG-00280 v2
ULE90130-01-PLG-00281 v2
ULE90130-01-PLG-00285 v2
Port of Leith Tram Stop Batch 1 / 06
ULE90130-01-PLG-00003 v3
ULE90130-01-PLG-00025 v3
ULE90130-01-PLG-00055 v3
ULE90130-01-PLG-00152 v2
ULE90130-01-PLG-00153 v1
ULE90130-01-PLG-00154 v3
ULE90130-01-PLG-00155 v3
Bernard Street Tram Stop Batch 1 / 07
ULE90130-01-PLG-00004 v3
ULE90130-01-PLG-00026 v3
ULE90130-01-PLG-00027 v3
ULE90130-01-PLG-00056 v4
ULE90130-01-PLG-00057 v4
ULE90130-01-PLG-00162 v3
ULE90130-01-PLG-00163 v3

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Foot of the Walk Tram Stop Batch 1 / 08

ULE90130-01-PLG-00005 v3

ULE90130-01-PLG-00171 v3

ULE90130-01-PLG-00172 v3

ULE90130-01-PLG-00173 v4

ULE90130-01-PLG-00174 v3

ULE90130-01-PLG-00175 v5

ULE90130-01-PLG-00176 v4

Scheduled Ancient Monument

Victoria (Swing) Bridge

ULE90130-01-PLG-00255 v 1

ULE90130-01-PLG-00256 v 1

ULE90130-01-PLG-00257 v 1

ULE90130-01-PLG-00258 v 2

ULE90130-01-PLG-00259 v1

ULE90130-01-PLG-00272 v2

Listed Building Consents

Leith Assembly Rooms Batch 1 / 07a

ULE90130-01-PLG-00080 v2

ULE90130-01-PLG-00082 v2

Leith Police Station Batch 1 / 07b

ULE90130-01-PLG-00083 v1

ULE90130-01-PLG-00085 v2

Robert Burns Statue Batch 1 / 07c

ULE90130-01-PLG-00077 v1

ULE90130-01-PLG-00079 v1

Building Warrants

Newhaven Place (Batch 1 / 01d)

ULE90130-01-DRG-00244 v1

33 Ocean Drive (Batch 1 / 02b)

ULE90130-01-DRG-00258 v1

ULE90130-01-ACC-00028 v1

Tram Stop

Newhaven Tram Stop

ULE90130-01-STP-00005 v4 v5

ULE90130-01-STP-00006 v3 v4

ULE90130-01-STP-00007 v4 v2

Ocean Terminal Tram Stop

ULE90130-01-STP-00012 v1 v2

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Port of Leith Tram Stop

ULE90130-01-STP-00025 ~~v5~~ v6ULE90130-01-STP-00026 ~~v4~~ v5ULE90130-01-STP-00027 ~~v2~~ v3

Bernard Street Tram Stop

ULE90130-01-STP-00038 ~~v5~~ v6ULE90130-01-STP-00039 ~~v4~~ v5ULE90130-01-STP-00040 ~~v3~~ v4

Foot of the Walk Tram Stop

ULE90130-01-STP-00045 ~~v4~~ v5ULE90130-01-STP-00046 ~~v4~~ v5ULE90130-01-STP-00047 ~~v4~~ v2**Substation**

Tram North Leith Sands Substation

ULE90130-01-SUB-00001 v3

ULE90130-01-SUB-00002 ~~v3~~ v4**Structures**

Lindsay Road / Ocean Drive Retaining Walls (W1)

ULE90130-01-RTW-00020 v3

ULE90130-01-RTW-00021 v3

ULE90130-01-RTW-00022 v3

ULE90130-01-RTW-00023 v3

ULE90130-01-RTW-00024 v4

ULE90130-01-RTW-00025 v3

ULE90130-01-RTW-00026 v3

ULE90130-01-RTW-00027 v3

ULE90130-01-RTW-00028 v3

ULE90130-01-RTW-00029 v3

ULE90130-01-RTW-00030 v3

ULE90130-01-RTW-00031 v3

ULE90130-01-RTW-00032 v3

ULE90130-01-RTW-00033 v3

ULE90130-01-RTW-00034 v3

ULE90130-01-RTW-00035 v3

ULE90130-01-RTW-00036 v3

ULE90130-01-RTW-00037 v3

ULE90130-01-RTW-00038 v3

ULE90130-01-RTW-00039 v3

ULE90130-01-RTW-00040 v3

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ULE90130-01-RTW-00041 v3

ULE90130-01-RTW-00042 v3

ULE90130-01-RTW-00043 v3

ULE90130-01-RTW-00060 v4

ULE90130-01-RTW-00061 v4

ULE90130-01-RTW-00064 v3

ULE90130-01-RTW-00066 v4

ULE90130-01-RTW-00067 v4

ULE90130-01-RTW-00068 v3

Victoria Docks Entrance Bridge (S16)

ULE90130-01-BRG-00013 v4

ULE90130-01-BRG-00014 v4

ULE90130-01-BRG-00015 v4

ULE90130-01-BRG-00016 v4

ULE90130-01-BRG-00017 v4

ULE90130-01-BRG-00018 v4

ULE90130-01-BRG-00019 v4

ULE90130-01-BRG-00020 v4

ULE90130-01-BRG-00021 v4

ULE90130-01-BRG-00022 v4

ULE90130-01-BRG-00023 v4

ULE90130-01-BRG-00024 v3

ULE90130-01-BRG-00025 v2

Tower Place Bridge (S17)

ULE90130-01-BRG-00081 v6

ULE90130-01-BRG-00082 ~~v8~~ v9

ULE90130-01-BRG-00083 ~~v8~~ v9

ULE90130-01-BRG-00084 v7

ULE90130-01-BRG-00085 v6

ULE90130-01-BRG-00086 v7

ULE90130-01-BRG-00087 v6

ULE90130-01-BRG-00088 v6

ULE90130-01-BRG-00089 v6

ULE90130-01-BRG-00090 ~~v7~~ v9

ULE90130-01-BRG-00091 v6

ULE90130-01-BRG-00092 ~~v7~~ v8

ULE90130-01-BRG-00093 ~~v6~~-v7

ULE90130-01-BRG-00094 v6

ULE90130-01-BRG-00095 v6

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ULE90130-01-BRG-00096 v6
ULE90130-01-BRG-00097 v5
ULE90130-01-BRG-00098 v6
ULE90130-01-BRG-00099 v7
ULE90130-01-BRG-00100 v6
ULE90130-01-BRG-00101 v6
ULE90130-01-BRG-00102 v7
ULE90130-01-BRG-00103 v7
ULE90130-01-BRG-00104 v7
ULE90130-01-BRG-00105 v7
ULE90130-01-BRG-00106 v7
ULE90130-01-BRG-00107 v6
ULE90130-01-BRG-00108 v9
ULE90130-01-BRG-00110 v5
ULE90130-01-BRG-00111 v5
ULE90130-01-BRG-00112 v6
ULE90130-01-BRG-00113 v6
ULE90130-01-BRG-00114 ~~v5~~ v6
ULE90130-01-BRG-00115 ~~v7~~ v8
ULE90130-01-BRG-00116 v5
ULE90130-01-BRG-00117 ~~v5~~ v6
ULE90130-01-BRG-00118 v4
ULE90130-01-BRG-00119 ~~v4~~ v5
ULE90130-01-BRG-00120 v4
ULE90130-01-BRG-00121 v4
ULE90130-01-BRG-00122 ~~v6~~ v7
ULE90130-01-BRG-00123 v2

Track

Track Horizontal Alignment

ULE90130-01-TAL-00001 v7
ULE90130-01-TAL-00002 v5
ULE90130-01-TAL-00003 ~~v7~~ v8
ULE90130-01-TAL-00004 ~~v7~~ v8
ULE90130-01-TAL-00005 v6
ULE90130-01-TAL-00006 v6
ULE90130-01-TAL-00007 v7
ULE90130-01-TAL-00008 v7
ULE90130-01-TAL-00009 v8

Track Vertical Alignment

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ULE90130-01-TVA-00001 v7

ULE90130-01-TVA-00002 v5

ULE90130-01-TVA-00003 ~~v7~~ v8

ULE90130-01-TVA-00004 ~~v6~~ v7

ULE90130-01-TVA-00005 v6

ULE90130-01-TVA-00006 ~~v6~~ v7

ULE90130-01-TVA-00007 v7

ULE90130-01-TVA-00008 v7

ULE90130-01-TVA-00009 v8

Roads

Road Scheme Layout

ULE90130-01-HRL-00001 ~~v5~~ v7

ULE90130-01-HRL-00002 ~~v5~~ v6

~~ULE90130-01-HRL-00003 vX~~ v5

~~ULE90130-01-HRL-00004 vX~~ v4

ULE90130-01-HRL-00005 ~~v6~~ v9

ULE90130-01-HRL-00006 ~~v6~~ v8

ULE90130-01-HRL-00007 ~~v6~~ v8

ULE90130-01-HRL-00008 ~~v6~~ v7

ULE90130-01-HRL-00009 ~~v7~~ v9

Road Junction and Crossings

ULE90130-01-HRL-00025 ~~v3~~ v4

ULE90130-01-HRL-00026 ~~v3~~ v4

ULE90130-01-HRL-00031 ~~v3~~ v5

ULE90130-01-HRL-00032 ~~v3~~ v6

ULE90130-01-HRL-00033 ~~v3~~ v5

ULE90130-01-HRL-00034 ~~v3~~ v5

ULE90130-01-HRL-00036 ~~v3~~ v4

ULE90130-01-HRL-00039 v3

ULE90130-01-HRL-00040 v3

ULE90130-01-HRL-00041 ~~v3~~ v5

Typical Cross Sections

ULE90130-01-HRL-00093 v3

ULE90130-01-HRL-00094 ~~v3~~ v5

ULE90130-01-HRL-00096 ~~v3~~ v4

ULE90130-01-HRL-00097 ~~v3~~ v4

ULE90130-01-HRL-00098 ~~v3~~ v4

Road Restraint Systems

ULE90130-01-HRL-00401 ~~v3~~ v5

Design Assurance Statement – Section 1A

ULE90130-01-HRL-00402 ~~v3~~-v4

~~ULE90130-01-HRL-00403 vX v3~~

~~ULE90130-01-HRL-00404 vX v2~~

ULE90130-01-HRL-00405 ~~v3~~ v4

ULE90130-01-HRL-00406 ~~v3~~ v4

ULE90130-01-HRL-00407 ~~v4~~-v5

ULE90130-01-HRL-00408 ~~v3~~ v4

ULE90130-01-HRL-00409 ~~v3~~ v4

Traffic Signal Ducting

ULE90130-01-HRL-00501 ~~v3~~-v4

ULE90130-01-HRL-00502 ~~v3~~-v5

ULE90130-01-HRL-00507 ~~v3~~ v5

ULE90130-01-HRL-00508 ~~v3~~ v6

ULE90130-01-HRL-00509 ~~v3~~ v5

ULE90130-01-HRL-00510 ~~v3~~ v5

ULE90130-01-HRL-00511 ~~v3~~ v4

Traffic Signal Layout

ULE90130-01-HRL-00512 ~~v2~~ v3

ULE90130-01-HRL-00513 ~~v2~~ v3

ULE90130-01-HRL-00514 ~~v2~~-v5

Pavement Design

ULE90130-01-HRL-00701 ~~v3~~ v5

ULE90130-01-HRL-00702 ~~v3~~ v4

~~ULE90130-01-HRL-00703 vX v3~~

~~ULE90130-01-HRL-00704 vX v2~~

ULE90130-01-HRL-00705 ~~v3~~ v5

ULE90130-01-HRL-00706 ~~v3~~ v5

ULE90130-01-HRL-00707 ~~v3~~ v4

ULE90130-01-HRL-00708 ~~v3~~ v4

ULE90130-01-HRL-00709 ~~v3~~ v5

Kerbs, Footways and Paved Areas

ULE90130-01-HRL-01101 ~~v3~~ v5

ULE90130-01-HRL-01102 ~~v3~~ v4

~~ULE90130-01-HRL-01103 vX v3~~

~~ULE90130-01-HRL-01104 vX v2~~

ULE90130-01-HRL-01105 ~~v3~~ v5

ULE90130-01-HRL-01106 ~~v3~~-v5

ULE90130-01-HRL-01107 ~~v4~~ v6

ULE90130-01-HRL-01108 ~~v3~~ v5

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ULE90130-01-HRL-01109 ~~v3~~ v5

Footway Construction Standard Details

ULE90130-01-HRL-01130 ~~v6~~ v10

ULE90130-01-HRL-01131 ~~v8~~ v13

ULE90130-01-HRL-01132 ~~v4~~ v11

ULE90130-01-HRL-01133 ~~v4~~ v8

ULE90130-01-HRL-01134 ~~v7~~ v13

ULE90130-01-HRL-01138 ~~v2~~ v7

ULE90130-01-HRL-01141 ~~v4~~ v4

Road Markings

ULE90130-01-HRL-01201 ~~v3~~ v5

ULE90130-01-HRL-01202 ~~v3~~ v5

~~ULE90130-01-HRL-01203 ~~vX~~ v3~~

~~ULE90130-01-HRL-01204 ~~vX~~ v2~~

ULE90130-01-HRL-01205 ~~v4~~ v6

ULE90130-01-HRL-01206 ~~v4~~ v6

ULE90130-01-HRL-01207 ~~v4~~ v5

ULE90130-01-HRL-01208 ~~v4~~ v6

ULE90130-01-HRL-01209 ~~v4~~ v6

Traffic Signs

ULE90130-01-HRL-01231 ~~v2~~ v4

ULE90130-01-HRL-01232 ~~v2~~ v3

~~ULE90130-01-HRL-01233 ~~vX~~ v3~~

~~ULE90130-01-HRL-01234 ~~vX~~ v2~~

ULE90130-01-HRL-01235 ~~v2~~ v4

ULE90130-01-HRL-01236 ~~v2~~ v4

ULE90130-01-HRL-01237 ~~v2~~ v3

ULE90130-01-HRL-01238 ~~v2~~ v4

ULE90130-01-HRL-01239 ~~v2~~ v3

Pavement Surface Colour

ULE90130-01-HRL-01261 ~~v3~~ v5

ULE90130-01-HRL-01262 ~~v3~~ v4

~~ULE90130-01-HRL-01263 ~~vX~~ v3~~

~~ULE90130-01-HRL-01264 ~~vX~~ v2~~

ULE90130-01-HRL-01265 ~~v3~~ v4

ULE90130-01-HRL-01266 ~~v3~~ v4

ULE90130-01-HRL-01267 ~~v3~~ v4

ULE90130-01-HRL-01268 ~~v3~~ v4

ULE90130-01-HRL-01269 ~~v3~~ v5

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Non Standard Road Signs

ULE90130-01-KRB-00009 v1

Site ClearanceULE90130-01-HRL-00201 ~~v3~~ v5

ULE90130-01-HRL-00202 v3

ULE90130-01-HRL-00203 ~~vX~~ v3ULE90130-01-HRL-00204 ~~vX~~ v2ULE90130-01-HRL-00205 ~~v3~~ v5ULE90130-01-HRL-00206 ~~v3~~ v5ULE90130-01-HRL-00207 ~~v3~~ v5ULE90130-01-HRL-00208 ~~v3~~ v5ULE90130-01-HRL-00209 ~~v3~~ v4**Street Lighting**

Layout

ULE90130-01-LTG-00001 v3

ULE90130-01-LTG-00002 v3

~~ULE90130-01-LTG-00003 vX~~~~ULE90130-01-LTG-00004 vX~~

ULE90130-01-LTG-00005 v3

ULE90130-01-LTG-00006 v3

ULE90130-01-LTG-00007 v3

ULE90130-01-LTG-00008 v3

ULE90130-01-LTG-00009 v3

Schematic

ULE90130-01-LTG-00101 v1

ULE90130-01-LTG-00105 v1

ULE90130-01-LTG-00106 v1

ULE90130-01-LTG-00107 v1

OLE

ULE90130-01-OLE-00001 v8 Superseded by Siemens OLE Pole Location Plans

ULE90130-01-OLE-00002 ~~vX~~ v8 Superseded by Siemens OLE Pole Location Plans

ULE90130-01-OLE-00003 v10 Superseded by Siemens OLE Pole Location Plans

ULE90130-01-OLE-00004 v9 Superseded by Siemens OLE Pole Location Plans

ULE90130-01-OLE-00005 ~~v44~~ v13 Superseded by Siemens OLE Pole Location Plans

OLE Pole Location Plans

ULE90130-01-DRG-00771_rev2

ULE90130-01-DRG-00772_rev2

ULE90130-01-DRG-00773_rev2

ULE90130-01-DRG-00774_rev2

ULE90130-01-DRG-00775_rev2

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ULE90130-01-DRG-00776_rev2
ULE90130-01-DRG-00777_rev2
ULE90130-01-DRG-00778_rev2
ULE90130-01-DRG-00779_rev2

Drainage

ULE90130-01-DNE-00001 v3 v4
ULE90130-01-DNE-00002 v3 v4
ULE90130-01-DNE-00003 vX v3
ULE90130-01-DNE-00004 vX v3
ULE90130-01-DNE-00005 v3-v6
ULE90130-01-DNE-00006 v4 v7
ULE90130-01-DNE-00007 v4 v6
ULE90130-01-DNE-00008 v4-v6
ULE90130-01-DNE-00009 v4 v5

Cable and Ducting

ULE90130-01-DCT-00001 v4 v5
ULE90130-01-DCT-00002 v4 v5
ULE90130-01-DCT-00003 v4 v5
ULE90130-01-DCT-00004 v4 v5
ULE90130-01-DCT-00005 v4 v5
ULE90130-01-DCT-00006 v4 v5
ULE90130-01-DCT-00007 v4 v5
ULE90130-01-DCT-00008 v4 v5
ULE90130-01-DCT-00009 v4 v5

Utilities

All Utilities

ULE90130-01-UTL-00001
ULE90130-01-UTL-00002
ULE90130-01-UTL-00003
ULE90130-01-UTL-00004
ULE90130-01-UTL-00005
ULE90130-01-UTL-00006
ULE90130-01-UTL-00007
ULE90130-01-UTL-00008
ULE90130-01-UTL-00009
ULE90130-01-UTL-00010
ULE90130-01-UTL-00011
ULE90130-01-UTL-00012
ULE90130-01-UTL-00013

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ULE90130-01-UTL-00014
ULE90130-01-UTL-00015
ULE90130-01-UTL-00016
ULE90130-01-UTL-00017
ULE90130-01-UTL-00018
ULE90130-01-UTL-00019
ULE90130-01-UTL-00020
ULE90130-01-UTL-00021
BT Openreach
ULE90130-01-UTL-00506
ULE90130-01-UTL-00507
ULE90130-01-UTL-00508
ULE90130-01-UTL-00509
ULE90130-01-UTL-00510
ULE90130-01-UTL-00511
ULE90130-01-UTL-00512
ULE90130-01-UTL-00513
ULE90130-01-UTL-00514
ULE90130-01-UTL-00515
Cable and Wireless
ULE90130-01-UTL-00806
ULE90130-01-UTL-00807
ULE90130-01-UTL-00808
ULE90130-01-UTL-00809
ULE90130-01-UTL-00810
ULE90130-01-UTL-00811
ULE90130-01-UTL-00812
ULE90130-01-UTL-00813
ULE90130-01-UTL-00814
ULE90130-01-UTL-00815
Forth Ports
ULE90130-01-UTL-01706
ULE90130-01-UTL-01707
ULE90130-01-UTL-01708
ULE90130-01-UTL-01709
ULE90130-01-UTL-01710
ULE90130-01-UTL-01711
ULE90130-01-UTL-01712
ULE90130-01-UTL-01713

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ULE90130-01-UTL-01714
ULE90130-01-UTL-01715
Scotland Gas Networks
ULE90130-01-UTL-00106
ULE90130-01-UTL-00107
ULE90130-01-UTL-00108
ULE90130-01-UTL-00109
ULE90130-01-UTL-00110
ULE90130-01-UTL-00111
ULE90130-01-UTL-00112
ULE90130-01-UTL-00113
ULE90130-01-UTL-00114
ULE90130-01-UTL-00115
Scottish Power
ULE90130-01-UTL-00206
ULE90130-01-UTL-00207
ULE90130-01-UTL-00208
ULE90130-01-UTL-00209
ULE90130-01-UTL-00210
ULE90130-01-UTL-00211
ULE90130-01-UTL-00212
ULE90130-01-UTL-00213
ULE90130-01-UTL-00214
ULE90130-01-UTL-00215
Scottish Water - CLEAN
ULE90130-01-UTL-00306
ULE90130-01-UTL-00307
ULE90130-01-UTL-00308
ULE90130-01-UTL-00309
ULE90130-01-UTL-00310
ULE90130-01-UTL-00311
ULE90130-01-UTL-00312
ULE90130-01-UTL-00313
ULE90130-01-UTL-00314
ULE90130-01-UTL-00315
Scottish Water - SEWER
ULE90130-01-UTL-00406
ULE90130-01-UTL-00407
ULE90130-01-UTL-00408

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ULE90130-01-UTL-00409
ULE90130-01-UTL-00410
ULE90130-01-UTL-00411
ULE90130-01-UTL-00412
ULE90130-01-UTL-00413
ULE90130-01-UTL-00414
ULE90130-01-UTL-00415
ULE90130-01-UTL-00416
ULE90130-01-UTL-00417
ULE90130-01-UTL-00418
ULE90130-01-UTL-00419
ULE90130-01-UTL-00420
ULE90130-01-UTL-00421
ULE90130-01-DRG-00300
ULE90130-01-DRG-00301
ULE90130-01-DRG-00302
ULE90130-01-UTL-02111
ULE90130-01-UTL-02112
ULE90130-01-UTL-02113
ULE90130-01-UTL-02114
ULE90130-01-UTL-02115
ULE90130-01-UTL-02116
ULE90130-01-UTL-02117
ULE90130-01-UTL-02118
ULE90130-01-UTL-02119
ULE90130-01-UTL-02120
ULE90130-01-UTL-02121
ULE90130-01-UTL-02122
ULE90130-01-UTL-02123
ULE90130-01-UTL-02124
ULE90130-01-UTL-02133
Thus
ULE90130-01-UTL-00906
ULE90130-01-UTL-00907
ULE90130-01-UTL-00908
ULE90130-01-UTL-00909
ULE90130-01-UTL-00910
ULE90130-01-UTL-00911
ULE90130-01-UTL-00912

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ULE90130-01-UTL-00913

ULE90130-01-UTL-00914

ULE90130-01-UTL-00915

Virgin Media

ULE90130-01-UTL-00706

ULE90130-01-UTL-00707

ULE90130-01-UTL-00708

ULE90130-01-UTL-00709

ULE90130-01-UTL-00710

ULE90130-01-UTL-00711

ULE90130-01-UTL-00712

ULE90130-01-UTL-00713

ULE90130-01-UTL-00714

ULE90130-01-UTL-00715

ULE90130-01-UTL-00716

ULE90130-01-UTL-00717

ULE90130-01-UTL-00718

ULE90130-01-UTL-00719

TROs

ULE130-01-TMG-00001 v4

ULE130-01-TMG-00002 v4

ULE130-01-TMG-00003 v4

ULE130-01-TMG-00004 v4

ULE130-01-TMG-00005 v4

ULE130-01-TMG-00006 v4

ULE130-01-TMG-00007 v4

ULE130-01-TMG-00008 v4

Landscaping

ULE90130-01-LDS-00001 v3

ULE90130-01-LDS-00002 v6

~~ULE90130-01-LDS-00003 vX~~

~~ULE90130-01-LDS-00004 vX~~

ULE90130-01-LDS-00005 v2

ULE90130-01-LDS-00006 v2

ULE90130-01-LDS-00007 v2

ULE90130-01-LDS-00025 v4

Supervisory, Control and Communications

ULE90130-SW-SCC-00031 v3 Now superseded by Siemens Drawings. See Siemens Systemwide Design

ULE90130-SW-SCC-00032 v3 Now superseded by Siemens Drawings. See Siemens Systemwide Design

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ULE90130-SW-SCC-00246 v2 Now superseded by Siemens Drawings. See Siemens Systemwide Design
 ULE90130-SW-SCC-00261 v2 Now superseded by Siemens Drawings. See Siemens Systemwide Design
 ULE90130-SW-SCC-00262 v2 Now superseded by Siemens Drawings. See Siemens Systemwide Design
 ULE90130-SW-SCC-00263 v2 Now superseded by Siemens Drawings. See Siemens Systemwide Design
 ULE90130-SW-SCC-00264 v2 Now superseded by Siemens Drawings. See Siemens Systemwide Design
 ULE90130-SW-SCC-00265 v2 Now superseded by Siemens Drawings. See Siemens Systemwide Design

Traction Power Single Line Diagram Tram North Leith Sands

ULE90130-SW-TSU-00009 v2 Now superseded by Siemens Drawings. See Siemens Systemwide Design

Have all Submission Specific Design Documents been reviewed, approved and under version control (in Hummingbird)?

Yes

No

Comments

Documents and versions to be confirmed with final version of document.

Confirmation required for all documents needed for Section 1A3.

Drawing versions will be updated with IFC as appropriate.

e) Applicable Systemwide Drawings and Documents:

- OLE Generic Foundation Drawings
 - ULE90130-SW-OLE-00015 v2 Now superseded by foundation designs to suit Siemens OLE Design
 - ULE90130-SW-OLE-00016 v2 Now superseded by foundation designs to suit Siemens OLE Design
 - ULE90130-SW-OLE-00017 v2 Now superseded by foundation designs to suit Siemens OLE Design
 - ULE90130-SW-OLE-00018 v2 Now superseded by foundation designs to suit Siemens OLE Design
 - ULE90130-SW-OLE-00019 v2 Now superseded by foundation designs to suit Siemens OLE Design
 - ULE90130-SW-OLE-00020 v2 Now superseded by foundation designs to suit Siemens OLE Design
 - ULE90130-SW-OLE-00021 v2 Now superseded by foundation designs to suit Siemens OLE Design
 - ULE90130-SW-OLE-00022 v2 Now superseded by foundation designs to suit Siemens OLE Design
 - OLE Generic Foundations Design Summary ULE90130-SW-REP-00594 v2 Now superseded by foundation designs to suit Siemens OLE Design
- Department of Transport Manual of Contract Documents for Highways Works:
 - Appendix 1/5: Testing to be Carried Out by the Contractor – ULE90130-SW-SPN-00188 v5
 - Appendix 2: Site Clearance - ULE90130-SW-SPN-00090 v41
 - Appendix 4/1: Road Restraint Systems (Vehicular and Pedestrian) - ULE90130-SW-SPN-00086 v58
 - Appendix 4/2: Information Required to Demonstrate Compliance of Road Restraint Systems to BS EN 1317-1, BS EN 1317-2, BS EN 1317-3 and DD ENV 1317-4:2002 - ULE90130-SW-SPN-00183 v3
 - Series 500 Drainage Specification - ULE90130-SW-SPN-00113 v50
 - Series 600 Earthworks Specification – ULE90130-SW-SPN-00161 v11
 - Appendix 7/1: Permitted Pavement Options - ULE90130-SW-SPN-00190 v8
 - Appendix 7/2: Excavation, Trimming and Reinstatement of Existing Surfaces - ULE90130-SW-SPN-00139 v9
 - Appendix 7/4: Bond Coats, Tack Coats and other Bituminous Sprays - ULE90130-SW-SPN-

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00140 v9

- Appendix 7/7: Slurry Surfacing Incorporating Microsurfacing - ULE90130-SW-SPN-00141 v9
- Appendix 7/9: Cold Milling (Planing) of Bituminous Bound Flexible Pavement - ULE90130-SW-SPN-00142 v9
- Appendix 11/1: Kerbs, Footways, Cycleways, Laybys, Busbays and Paved Areas – ULE90130-SW-SPN-00087 v35
- Appendix 12/1: Traffic Signs: General - ULE90130-SW-SPN-00088 v61
- Appendix 12/3: Traffic Signs: Road Markings and Studs - ULE90130-SW-SPN-00100 v56
- Appendix 12/5: Traffic Signal Works - ULE90130-SW-SPN-00171 v16
- Appendix 13: Road Lighting Columns and Brackets, CCTV Masts, and Cantilever Masts - ULE90130-SW-SPN-00172 v12
- Appendix 14: Electrical Work for Road Lighting and Traffic Signs - ULE90130-SW-SPN-00173 v22
- Appendix 16/1-16/8: Piling and Embedded Retaining Walls – ULE90130-SW-SPN-00177 v10
- Appendix 17/1-17/6: Structural Concrete – ULE90130-SW-SPN-00111 v16
- Appendix 18/1: Structural Steelwork – ULE90130-SW-SPN-00179 v3
- Appendix 19/1 – 19/5: Protection of Steelwork Against Corrosion – ULE90130-SW-SPN-000175 v12
- Appendix 20/1: Structures Specification 2000 – Waterproofing of Concrete Structures – ULE90130-SW-SPN-00110 v13
- Appendix 21/1: Bridge Bearing Schedule – ULE90130-SW-SPN-00181 v3
- Appendix 23/1-23/2: Bridge Expansion Joints and Sealing of Gaps – ULE90130-SW-SPN-00176 v15
- Appendix 24: Brickwork, Blockwork and Stonework – ULE90130-SW-SPN-00168 v12
- Appendix 25/2: Requirements for Reinforced Soil and Anchored Earth Structures – ULE90130-SW-SPN-00178 v5
- Appendix 26: Miscellaneous – ULE90130-SW-SPN-00169 v11
- Landscaping Specification – ULE90130-SW-SPN-00198 v1
- Construction Drawings:
 - ULE90130-SW-CND-00002 v20
 - ULE90130-SW-CND-00010 v4
 - ULE90130-SW-CND-00013 v5
 - ULE90130-SW-CND-00014 v4
 - ULE90130-SW-CND-00015 v4
- Ground Improvement Layer Drawings
 - ULE90130-SW-DRG-00682 v4
 - ULE90130-SW-DRG-00683 v4
 - ULE90130-SW-DRG-00684 v3
 - ULE90130-SW-DRG-00685 v3
 - ULE90130-SW-DRG-00686 v4

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- ULE90130-SW-DRG-00687 v4
- ULE90130-SW-DRG-00687 (schedule) v4
- ULE90130-SW-DRG-00688 v3
- ULE90130-SW-DRG-00689 v2
- ULE90130-SW-DRG-00690 v3
- ULE90130-SW-DRG-00691 v3
- ULE90130-SW-DRG-00691 (schedule) v3
- ULE90130-SW-DRG-00692 v2
- ULE90130-SW-DRG-00692 (schedule) v3
- ULE90130-SW-DRG-00783 v3
- OLE Generic Foundation Design Drawings and Certificates
 - ULE90130-SW-OLE-00023 v4
 - ULE90130-SW-OLE-00024 v4
 - ULE90130-SW-OLE-00030 v5
 - ULE90130-SW-OLE-00031 v5
 - ULE90130-SW-OLE-00032 v5
 - ULE90130-SW-OLE-00033 v5
- Systemwide Fencing Drawings
 - ULE90130-SW-DRG-00642 v1
 - ULE90130-SW-DRG-00643 v1
 - ULE90130-SW-DRG-00644 v2
- Trackform Reference Design Rail Plinth on Structure
 - ULE90130-SW-DRG-00713 v1
 - ULE90130-SW-SCH-00156 v1
 - ULE90130-SW-FOR-00220 v1
 - ULE90130-SW-FOR-00246 v1
- Standard Turnout Geometry: ULE90130-SW-DRG-00077 v2
- Substation Exemplar:
 - ULE90130-SW-SUB-00008 v3
 - ULE90130-SW-SUB-00016 v1
 - ULE90130-SW-SUB-00017 v1
 - ULE90130-SW-SUB-00018 v1
 - ULE90130-SW-SUB-00201 v3
 - ULE90130-SW-SUB-00202 v3
- Drainage Assessment Report ULE90130-SW-REP-00369 v2
- Environmental Management Plan ULE90130-SW-SW-PPN-00011 v6
- Archaeological Specification For A Programme of Archaeological Works – Standing Structures ULE90130-SW-REP-00506 v1

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- Contaminated Land Interpretative Report ULE90130-SW-REP-00383 v2
- Bat Roost Report ULE90130-SW-REP-00367 v1
- Invasive Weeds Report ULE90130-SW-REP-00251 v3
- Tram Stop Exemplar Drawings:
 - ULE90130-SW-STP-00008 v3
 - ULE90130-SW-STP-00009 v15
 - ULE90130-SW-STP-00011 v14
 - ULE90130-SW-STP-00012 v7
 - ULE90130-SW-STP-00013 v11
 - ULE90130-SW-STP-00014 v8
 - ULE90130-SW-STP-00015 v13
 - ULE90130-SW-STP-00016 v9
 - ULE90130-SW-STP-00017 v10
 - ULE90130-SW-STP-00019 v9
 - ULE90130-SW-STP-00020 v7
 - ULE90130-SW-STP-00035 v2
 - ULE90130-SW-STP-00037 v4
 - ULE90130-SW-STP-00040 v1
- Earthworks Drawings
 - ULE90130-SW-GEO-00150 v2
 - ULE90130-SW-GEO-00151 v2
 - ULE90130-SW-GEO-00152 v2
 - ULE90130-SW-GEO-00153 v2
- Register for Cuttings and Embankments
 - ULE90130-SW-REP-00207 v5
- Geotechnical Desk Study Summary Plans:
 - ULE90130-SW-GEO-00001 v4
 - ULE90130-SW-GEO-00002 v4
 - ULE90130-SW-GEO-00003 v4
 - ULE90130-SW-GEO-00004 v4
 - ULE90130-SW-GEO-00005 v4
 - ULE90130-SW-GEO-00006 v4
 - ULE90130-SW-GEO-00007 v4
 - ULE90130-SW-GEO-00008 v4
 - ULE90130-SW-GEO-00009 v4
 - ULE90130-SW-GEO-00010 v4
 - ULE90130-SW-GEO-00011 v4

Design Assurance Statement – Section 1A

- ULE90130-SW-GEO-00012 v4
- ULE90130-SW-GEO-00013 v4
- ULE90130-SW-GEO-00014 v4
- ULE90130-SW-GEO-00015 v4
- ULE90130-SW-GEO-00016 v4
- ULE90130-SW-GEO-00017 v4
- ULE90130-SW-GEO-00018 v4
- ULE90130-SW-GEO-00019 v4
- ULE90130-SW-GEO-00020 v4
- ULE90130-SW-GEO-00021 v4
- ULE90130-SW-GEO-00022 v4
- ULE90130-SW-GEO-00023 v4
- ULE90130-SW-GEO-00024 v4
- ULE90130-SW-GEO-00025 v5
- ULE90130-SW-GEO-00026 v5
- ULE90130-SW-GEO-00027 v5
- ULE90130-SW-GEO-00028 v5
- ULE90130-SW-GEO-00029 v5
- ULE90130-SW-GEO-00030 v5
- ULE90130-SW-GEO-00031 v5
- ULE90130-SW-GEO-00032 v5
- ULE90130-SW-GEO-00033 v5
- ULE90130-SW-GEO-00034 v5
- ULE90130-SW-GEO-00035 v5
- ULE90130-SW-GEO-00036 v5
- ULE90130-SW-GEO-00037 v5
- ULE90130-SW-GEO-00038 v5
- ULE90130-SW-GEO-00039 v5
- ULE90130-SW-GEO-00040 v5
- ULE90130-SW-GEO-00041 v5
- **TRO Schedules**
 - ULE90130-SW-SCH-00142 v4
 - ULE90130-SW-SCH-00143 v4
 - ULE90130-SW-SCH-00144 v4
 - ULE90130-SW-SCH-00145 v4
 - ULE90130-SW-SCH-00146 v4
 - ULE90130-SW-SCH-00147 v2

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- ULE90130-SW-SCH-00148 v2
- ULE90130-SW-SCH-00149 v2
- ULE90130-SW-SCH-00151 v3
- ULE90130-SW-SCH-00152 v3
- ULE90130-SW-SCH-00153 v3
- ULE90130-SW-SCH-00154 v3
- ULE90130-SW-SCH-00155 v2
- ULE90130-SW-SCH-00169 v1
- ULE90130-SW-SCH-00170 v2

Have all applicable Systemwide Drawings and Documents been reviewed, approved and under version control (in Hummingbird)?

Yes

No

Comments

Applicable Systemwide documents to be updated to IFC as appropriate upon final acceptance from reviewing parties on all sections. Updated versions, as required, to be provided post submittal of this document.

OLE Foundation generic design drawings which are deemed to be at risk to vehicular impact are with CEC awaiting final technical approval. This approval is delayed by CEC, as CEC are awaiting tie letter to CEC confirming acceptance of PSCC of risk and mitigation methodology provided with the design.

Non-Standard Signs and Markings subject to change pending final approval.

TRO schedules subject to change until CEC makes order and promotes orders outside of City Centre. CEC/tie have changed the protocol and decided to promote City Centre order separately from rest of project.

f) Principal Standards:

Detail Applicable Standards;

Planning

National Guidance

- Scottish Planning Policy 1: The Planning System (2004)
- Planning Advice Note 68: Design Statements (2003)
- Planning Advice Note 78: Inclusive Design (2006) (for Tram Stops)
- Designing Places: A Policy Statement for Scotland (2001)
- National Planning Policy Guidance 18: Planning and the Historic Environment (1999)
- Inclusive Mobility, Department for Transport
- Memorandum of Guidance for Listed Buildings and Conservation Areas (1998).

Local Authority Development Plan

- Edinburgh and Lothian Structure Plan 2015
- Finalised Edinburgh City Local Plan (2007)

Supplementary Planning Guidance

- Tram Design Manual (2006)
- Edinburgh Standards for Streets (2006)
- Edinburgh Standards for Urban Design (2003)

Design Assurance Statement – Section 1A

- CEC Development Quality Guidelines

Other

- Disability Discrimination Act 1995
- CEC Local Transport Strategy 2007-2012
- Edinburgh Tram (Line Two) Act 2006
- Parliamentary Undertakings
- Environmental Statement for Edinburgh Tram (Line Two) Act
- Noise and Vibration Policy
- Office of Rail Regulation Railway Safety Publication 2: Guidance on Tramways

Track

- 'Railway Safety Publication 2, Guidance on tramways', HM Railway Inspectorate, Office of Rail Regulation;
- 'Railway Safety Principles and Guidance Part 2, Section A, Guidance on Infrastructure', HM Railway Inspectorate, HSE.
- Track Alignment Criteria – ULE90130-SW-SPN-00001 v3

Roads

- Design Manual for Roads and Bridges (DMRB)
- Traffic Signs Manual
- New Roads and Streetwork Act (1991)
- Edinburgh Standards for Streets
- Outline Project Specification – Roads and Utilities (Halcrow) (ULE90130-SW-SPN-00035 v2) for applicable standards.

Street Lighting

- BS 5489-1
- BS EN 13201-2: 2003
- Street Lighting Strategy for Edinburgh Tram
- CIBSE Lighting Guide 6

Tram Stops

- Outline Project Specification – Tram Stops (ULE90130-SW-SPN-00028 v2) for applicable standards.
- Tram Stops and Points Heating Electrical Design Performance Specification (ULE90130-SW-SPN-00162 v1)

Landscaping

- Outline Project Specification – Landscape Architecture (ULE90130-SW-SPN-00052 v2) for applicable standards.

Geotechnical

- Outline Project Specification – Geotechnical (ULE90130-SW-SPN-00036 v2) for applicable standards.

Structures

- Outline Project Specification – Structures (Halcrow) (ULE90130-SW-SPN-00034 v1) for applicable standards.

Have all referenced Principal Standards been adhered to,

Yes

No

Design Assurance Statement – Section 1A

Have any deviations been approved and logged?

Yes

No

Detail and or reference relevant deviations' and non conformances

Completion of Section 1A3 required before deviations can be confirmed.

Note: Formal closure of Road Safety Audit issues from CEC as overseeing organisation outstanding.

g) Requirements Test Specification: Compliance of technical specification with Client needs/defined requirements

Compliance of technical specification with Client needs/defined requirements. Are the relevant Requirements Test Specification entries populated with the required compliance entries?

Yes

No

Comments

The SDS design is compliant with the SDS Requirements Specification as defined below:

- Depot Requirements Specification ULE90130-SW-SW-SPN-00057 v2
- Integrated Fare Collection Requirements Specification ULE90130-SW-SW-SPN-00053 v3
- Non Functional Requirements Specification ULE90130-SW-SW-SPN-00045 v5
- Operations and Performance Requirements Specification ULE90130-SW-SW-SPN-00047 v3
- Overhead Line Equipment and Pantograph Requirements Specification ULE90130-SW-SW-SPN-00054 v3
- Traction Power Distribution Requirements Specification ULE90130-SW-SW-SPN-00052 v4
- Roads and Utilities Requirements Specifications ULE90130-SW-SW-SPN-00051 v2
- Structures and Civil Engineering Requirements Specification ULE90130-SW-SW-SPN-00049 v3
- Supervisory, Control and Communications Requirements Specification ULE90130-SW-SW-SPN-00055 v3
- Requirements Specification for Point control, Operation, Detection, Indication & Heating: ULE90130-SW-SPN-00061 V5
- Track Requirements Specification ULE90130-SW-SW-SPN-00050 v3
- Tram Requirements Specification ULE90130-SW-SW-SPN-00059 v7
- Tramstop Requirements Specification ULE90130-SW-SW-SPN-00056 v3

SDS has carried out a comprehensive review of the Employer's Requirements v3.6b versus these Requirements Specifications and identified the elements of difference between the above Technical Requirement Specifications and the Employers Requirements. These differences have been documented/audit trailed by SDS and presented to **tie** for consideration. Using this information, **tie** have instructed changes of scope to SDS as part of the close out and procurement of the InfraCo Contract under the terms of the Novation Agreement and upon completion of the development workshops, whereas mandatory changes are issued by **tie**. Following the BSC Systemwide Detailed Design and Technical Specifications being prepared, there will be a requirement to amend the relevant Requirement Specifications and carry out the additional V&V work including amendment and finalisation of the Project Test Requirement Specification. It will be a BSC exercise to bring the design and Test Specification into alignment with the new Employers Requirements.

Are there any deviations or Non Conformances relevant to this submission?

Yes

No

Have all relevant Deviations and Non-Conformances been approved and logged?

Yes

No

Detail and or reference relevant deviations' and non conformances

Design Assurance Statement – Section 1A

SDS will issue the Closeout Report of the Requirement Test Specification upon completion of the SDS design scope.

h) Applicable IDC Forms:

IDC forms are provided as part of the BSC IDC process. See BSC IDC Certificates Register.

Do all IDC Forms contain no issues and have been correctly signed off?

Yes

No

Detail any open issues

Comments

In line with the **tie** procurement strategy to relocate utilities in advance of the completed infrastructure design, utilising the utilities IFC drawings, SDS has carried out a review of utility conflicts arising during the design development and completion of the infrastructure works and provided this list to **tie**. The actual location of the service installations requires confirmation by as-built information which to date has not fully been made available to SDS.

i) Tram Design Manual and Design Briefs:

- Environmental Statement for Edinburgh Tram (Line Two) Act
- Edinburgh Tram Noise and Vibration Policy
- Tram Design Manual
- Urban Design Brief
- Letter from **tie** re Surface Finishes and Tram Stops dated 4 January 2008 (Ref SMH/FN/PLGPRJ/FM)

Have the Tram Design Manual and the Design Briefs been checked and issues addressed?

Yes

No

Detail any open issues

Comments

Design reflects agreed alignment of technical requirements with charette outcomes.

j) Hazard Log:

SDS is working under BSC direction for Hazard Log closeout for any outstanding elements relevant to the SDS scope of works.

See copy of Hazard Log as @ 29th July 2010.

Have all relevant entries in the Hazard Log been addressed and closed?

Yes

No

Detail any open issues

Reference BSC Hazard Log

k) Risk Register:

Have all relevant entries in the Risk Register been addressed and closed?

Yes

No

Detail any open issues

Comments

Design Assurance Statement – Section 1A

Residual Risks are identified in each of the relevant residual risk registers.

SDS has identified remaining risks and provided them to BSC for inclusion in the BSC Risk Register. Refer to BSC Risk Register.

l) Design Issues Tracker:**Detail Applicable References:**

See Design Tracker Excerpt - ULE90130-SW-SCH-00029

Have all relevant entries in the Design Issues Tracker been addressed and closed?

Detail Applicable References:

Yes

No

Detail any open issues

Any issues to be carried forward clearly identified and noted within document. They are considered closed from a design perspective.

Comments

The Design Tracker includes comments from:

Line 1 Progress Meetings:

18 April 2006, 15 May 2006, 20 July 2006, 29 August 2006 and 10 November 2006.

IDC Meetings:

SDS IDR meetings, Environmental, HMRI / Competent Person, Emergency Services, Disabled Groups, Cycling Groups, Stakeholders, Frontagers and the Wider Community.

Photographs ULE90130-05-PHH-00026 v1

Have all relevant entries in the Boundary and Accommodation Works Schedule been addressed and closed?

Yes

No

Detail any open issues**Comments**

None

m) Approvals and Consents:**Detail Applicable References:**

Approvals and Consents Tracker – ULE90130-SW-SCH-00048

- (i) Newhaven Road Tram Stop (Batch 1 / 01a)
- (ii) Lindsay Road Retaining Walls (Batch 1 / 01b)
- (iii) Ocean Drive Retaining Walls (Batch 1 / 01c)
- (iv) Newhaven Place Building Demolition Building Warrant (Batch 1 / 01d)
- (v) Ocean Terminal Tram Stop (Batch 1 / 02)
- (vi) Bypass Road (Batch 1 / 02a)
- (vii) 33 Ocean Drive Steps – Building Warrant (Batch 1 / 02b)
- (viii) North Leith Sands Substation (Batch 1 / 03)
- (ix) Line of Route – Ocean Drive (Batch 1 / 04)

Design Assurance Statement – Section 1A

- (x) Victoria Docks Entrance Bridge (Batch 1 / 04a)
- (xi) Tower Place Bridge (Batch 1/ 05)
- (xii) Victoria (Swing) Bridge Scheduled Ancient Monument (Batch 1 / 05a)
- (xiii) Port of Leith Tram Stop (Batch 1 / 06)
- (xiv) Bernard Street Tram Stop (Batch 1 / 07)
- (xv) Leith Assembly Rooms Listed Building Consent (Batch 1 / 07a)
- (xvi) Leith Police Station Listed Building Consent (Batch 1 / 07b)
- (xvii) Robert Burns Statue Listed Building Consent (Batch 1 / 07c)
- (xviii) Foot of the Walk Tram Stop (Batch 1 / 08)
- (xix) Roads, Track, OLE, Street Lighting for Roads Technical Approval (1A1, 1A2)
- (xx) Roads, Track, OLE, Street Lighting for Roads Technical Approval (1A3)
- (xxi) Roads, Track, OLE, Street Lighting for Roads Technical Approval (1A4)
- (xxii) Utilities: Scottish Gas Networks, Scottish Power, Scottish Water (Clean), Scottish Water (Foul), BT Openreach, Virgin Media, Cable and Wireless, Thus.
- (xxiii) TROs
- (xxiv) Scottish Water Outfall Drainage Consents

Notes

Have all Approvals and Consents been granted for this submission?

Yes

No

Comments

Consents and Approvals Tracker

- (i) Approval Granted by CEC
- (ii) Approval Granted by CEC
- (iii) Approval Granted by CEC
- (iv) Approval Granted by CEC
- (v) Approval Granted by CEC
- (vi) Submitted to CEC
- (vii) Approval Granted by CEC
- (viii) Approval Granted by CEC
- (ix) Approval Granted by CEC
- (x) Approval Granted by CEC
- (xi) Approval Granted by CEC
- (xii) Approval Granted by CEC
- (xiii) Approval Granted by CEC
- (xiv) Approval Granted by CEC
- (xv) Approval Granted by CEC
- (xvi) Approval Granted by CEC
- (xvii) Approval Granted by CEC
- (xviii) Approval Granted by CEC

Design Assurance Statement – Section 1A

- (xix) Approval Granted by CEC
- (xx) Approval Granted by CEC
- (xxi) To be Submitted to CEC
- (xxii) Approval Granted by CEC
- (xxiii) TROs – Statutory Consultation and Public Deposit outstanding
- (xxiv) Approval Granted by Scottish Water for Sections 1A1, 1A2 and 1A4

Have all relevant entries in the Approvals and Consents Tracker been addressed and closed?

Detail Applicable References:

See above.

Yes

No

Detail any open issues

Remaining consents to be achieved.

TROs – Statutory Consultation and public deposit to be undertaken late 2009.

Full Planning Permission - Batch 1 / 02a

CEC TAA Approval 1A3

Addressing of Informatives / Conditions on Technical and Prior Approvals by Contractor to be completed as part of Infracore Contract.

Scottish Water Approvals for Section 1A3 to be submitted upon final completion of technical design.

Comments

SEPA approvals will be dealt with in the System-Wide Design Assurance Statement (ULE90130-SW-FRM-00032).

CEC Exceptions report for Road Safety Audit

n) Relevant Agreements and Undertakings:**Detail Applicable References:**

Agreement - ADM Milling

Agreement – Royal Yacht Britannia

Agreement – Ocean Terminal

Agreement – Forth Ports

Letter of Comfort - Irish Life Assurance

Letter of Comfort – Baxters

Letter of Comfort - BHS

Letter of Comfort - Debenhams

Letter of Comfort – New Look

Letter of Comfort - Starbucks

Letter of Comfort – David Levy (Yes Indeed)

Letter of Comfort – Sharon Riley (Card Piont)

Letter of Comfort – Abercastle Holdings

Letter of Comfort – Christine Sprott

Letter of Closure / Position Statement – Judith Pearson

Letter of Comfort – Mr and Mrs Duncan

Design Assurance Statement – Section 1A

Letter of Comfort – Mrs Smith
Letter of Comfort – Gary Gilbert
Letter of Comfort – Mr Degg
Agreement – Stanley Casinos
Letter of Closure / Position Statement – CALA Management
Letter of Comfort – Professor Margaret Lang
Letter of Comfort – Mr and Mrs Campbell
Letter of Comfort – Georgia Low
Letter of Comfort – Kristan Jayne Drew
Letter of Comfort – Laura Fleming
Letter of Closure / Position Statement – Mr Scott
Letter of Comfort – Nicki Santer
Letter of Comfort – Mr and Mrs Laird
Letter of Comfort – Miss Connel-Guarino
Letter of Comfort – Fiona Douglas
Letter of Comfort – Shelia Gaynor
Letter of Comfort – Barbara Williams
Letter of Comfort - Anne Marie Gillon
Letter of Comfort – Murray Hetherington
Letter of Comfort – Doreen Peiffer
Letter of Comfort – Miss Haggerty and Miss Hill
Letter of Comfort – Christopher Foster
Letter of Comfort – Mrs F Rennie
Letter of Comfort – Graham Duff
Letter of Comfort – Caryn Connor
Letter of Comfort – Samantha Scotland
Letter of Comfort – Mr Eric Innes
Letter of Comfort – Natalie Sheenan
Letter of Comfort – Rachel Keen
Letter of Comfort – John Campbell
Letter of Comfort – Lynne Marsh
Letter of Comfort – Ian Shirley
Letter of Comfort – John and Alison Craske
Letter of Comfort– Alexander Latto
Letter of Closure / Position Statement – Norman Downie and Kerr
Letter of Comfort – Lee Ann McNaught
Letter of Assurance – Deardrie Harte
Letter of Comfort – Caversham Trading
Have all Agreements and Undertakings relevant to this submission been addressed and closed?

Design Assurance Statement – Section 1A

<p>Yes <input type="checkbox"/></p>	<p>No <input checked="" type="checkbox"/></p>
<p>Detail any open issues</p>	
<p>Comments</p> <p>Agreements / Letters of Comfort / Agreements between CEC and Third Parties.</p> <p>SDS developed agreement drawings for Stanley Casinos agreement and revised Forth Ports agreement.</p> <p>CEC technical comment required movement of shared OLE / Lighting poles closer to junction at Albert Docks / Ocean Drive. This does not afford maximum flexibility in the future design of the junction by others as implied by the requirements of the Forth Ports agreement.</p>	
<p>o) CDM</p> <p>ULE90130-SW-RRR-00075 Design Risk Register</p> <p>“So Far as Reasonably Practicable (SFARP) has the design considered the avoidance of foreseeable risks to those involved in its construction, use, maintenance and decommissioning through the elimination/mitigation of hazards?”</p>	
<p>Yes <input checked="" type="checkbox"/></p>	<p>No <input type="checkbox"/></p>
<p>Comments</p> <p>Are there any significant residual risks relevant to this submission?</p>	
<p>Yes <input checked="" type="checkbox"/></p>	<p>No <input type="checkbox"/></p>
<p>Have significant residual risks been recorded and provided in a clear manner with this design submission?</p>	
<p>Yes <input checked="" type="checkbox"/></p>	<p>No <input type="checkbox"/></p>
<p>Provide reference as to where information is contained (e.g. drawing no/ register reference)</p> <p>Track - ULE90130-SW-RRR-00075</p> <p>Roads and Drainage - ULE90130-05-RRR-00052</p> <p>Structures - ULE90130-05-RRR-00026, ULE90130-05-RRR-00029, ULE9013-05-RRR-00038, ULE90130-05-RRR-00042</p>	
<p>Comments</p> <p>No lighting risks exist at present as they have been dealt with in the design process.</p> <p>No residual risks have been identified for landscaping or stops at present.</p> <p>Other elements are not present within the subsection or are dealt with in the Systemwide components.</p> <p>Construction activities such as excavation and utility installation, working area in public roads, site location located in urban roads, pipe placing and jointing, excavation below ground level, – risks to contractor</p> <p>Designs not lining up with MUDFA installed works on adjacent section – tie and contractor.</p>	
<p>p) Other Relevant Information:</p> <p>This Design Assurance Statement is considered draft until all IDC, Variations to Approvals and comments are closed.</p>	
<p>q) Design Amendments due to the Incorporation of the Client Design</p> <p>In accordance with the Infraco Contract Part C of Schedule 14 - Design Review and Design Management Plan and the BSC Design Management Plan, SDS has continued to amend the Civil Infrastructure Drawings to align with the Infraco Proposal and Client Design. The SDS Design Assurance Statement (DAS) has captured these amendments as part of the SDS self assurance process.</p> <p>IFC Drawings produced by SDS (as detailed in the drawings list below) have been taken through the BSC IDR/IDC Process as described in the BSC Design Assurance Plan and in accordance with the BSC Design Management Plan.</p> <p>As part of the IDR/IDC Assurance Process the SDS Design Team has prepared Infrastructure cross-sections along the route to assure that the civil elements are co-ordinated. This is an SDS internal process and is demonstrated by preparation of the</p>	

Design Assurance Statement – Section 1A

ULE90130-DRG cross-section series of drawings within the SDS Drawing Register. Some 118 cross-sections (to-date) are provided and when accompanied with individual structural (bridge and retaining wall cross-sections) compliment and assure the SDS IFC Design. These drawings will form part of the As-built Package to be handed over to the Client after installation and any small as-built amendment.

Siemens and CAF will separately prepare IFC Drawings in accordance with the BSC Design Assurance Plan and the BSC Design Management Plan. The Drawing/Documentation Lists will be provided by Siemens and CAF respectively, in accordance with the Infraco Contract Clause 2.1.5 of Part C of Schedule 14 - Design Review and Design Management Plan. This BSC Drawing/Documentation material will form part of the multi discipline IDC managed by BSC. In addition to the design covered by SDS, certain design elements will be designed by Infraco. This includes all necessary system integration activity, including integration of the tram vehicle into the system.

Each SDS IDC civil item and/or discipline is listed below and is assured by inclusion within each multi discipline IDC managed by BSC. The Drawing List below identifies the SDS drawings used within the IDC and it is agreed by all parties (SDS/BB/Siemens/CAF) that the material be used as assurance documentation (see IDC Certificates within the BSC IDC Certificates Register) and that by such agreement the civil infrastructure drawings may be "issued for construction". By de-facto "Agreed for construction"

The information contained within this DAS is accurate for the SDS design at of the date of submittal. Any subsequent revisions, including those due to changes in scope, will be addressed separately as required.

IDC Items

- * Section 1A - OLE
- Section 1A - Ducting
- * Section 1A - Drainage
- * Section 1A - Roads
- Section 1A - Landscaping
- * Section 1A - Street Lighting
- Section 1A - Geotechnical
- * Section 1A - Track
- Section 1A - Lindsay Road RTW
- Section 1A - Tower Place Bridge
- * Section 1A - Tower Place Bridge - Trackform
- Section 1A - Tower Place Bridge - OLE Interface - IDR
- * Section 1A - Tower Place Bridge - E&B Design
- Section 1A - Victoria Dock Entrance Bridge
- Section 1A - Victoria Dock Entrance Bridge - Trackform
- * Section 1A - Victoria Dock Entrance Bridge - E&B Design

Section 1A - OLE

ULE90130-01-DRG-00771_rev2
 ULE90130-01-DRG-00772_rev2
 ULE90130-01-DRG-00773_rev2
 ULE90130-01-DRG-00774_rev2
 ULE90130-01-DRG-00775_rev2
 ULE90130-01-DRG-00776_rev2
 ULE90130-01-DRG-00777_rev2
 ULE90130-01-DRG-00778_rev2
 ULE90130-01-DRG-00779_rev2

Section 1A - Ducting

ULE90130-01-DCT-00001_rev5 - Updated from IDR
 ULE90130-01-DCT-00002_rev5 - Updated from IDR
 ULE90130-01-DCT-00003_rev5 - Updated from IDR
 ULE90130-01-DCT-00004_rev5 - Updated from IDR
 ULE90130-01-DCT-00005_rev5 - Updated from IDR
 ULE90130-01-DCT-00006_rev5 - Updated from IDR
 ULE90130-01-DCT-00007_rev5 - Updated from IDR
 ULE90130-01-DCT-00008_rev5 - Updated from IDR
 ULE90130-01-DCT-00009_rev5 - Updated from IDR

Section 1A - Drainage

ULE90130-01-DNE-00001_rev4
 ULE90130-01-DNE-00002_rev5

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ULE90130-01-DNE-00003_rev3 - Updated from IDR
 ULE90130-01-DNE-00004_rev3 - Updated from IDR
 ULE90130-01-DNE-00005_rev6
 ULE90130-01-DNE-00006_rev7
 ULE90130-01-DNE-00007_rev6
 ULE90130-01-DNE-00008_rev6
 ULE90130-01-DNE-00009_rev6

Section 1A - Roads

ULE90130-01-HRL-00001_rev7 - Updated from IDR
 ULE90130-01-HRL-00002_rev6
 ULE90130-01-HRL-00003_rev5 - Updated from IDR
 ULE90130-01-HRL-00004_rev4 - Updated from IDR
 ULE90130-01-HRL-00005_rev9 - Updated from IDR
 ULE90130-01-HRL-00006_rev8
 ULE90130-01-HRL-00007_rev8 - Updated from IDR
 ULE90130-01-HRL-00008_rev7 - Updated from IDR
 ULE90130-01-HRL-00009_rev9 - Updated from IDR

Section 1A - Landscaping

ULE90130-01-LDS-00001_rev3
 ULE90130-01-LDS-00002_rev6
 ULE90130-01-LDS-00003_rev3 - Updated from IDR
 ULE90130-01-LDS-00004_rev3 - Updated from IDR
 ULE90130-01-LDS-00005_rev2
 ULE90130-01-LDS-00006_rev2
 ULE90130-01-LDS-00007_rev2

Section 1A - Street Lighting - NOT FOR IDC - DRAWINGS ARE IFEA ONLY

ULE90130-01-LTG-00001_rev4 - Updated from IDR
 ULE90130-01-LTG-00002_rev4 - Updated from IDR
 ULE90130-01-LTG-00003_rev4 - Updated from IDR
 ULE90130-01-LTG-00004_rev4 - Updated from IDR
 ULE90130-01-LTG-00005_rev5 - Updated from IDR
 ULE90130-01-LTG-00006_rev5 - Updated from IDR
 ULE90130-01-LTG-00007_rev5 - Updated from IDR
 ULE90130-01-LTG-00008_rev5 - Updated from IDR
 ULE90130-01-LTG-00009_rev5 - Updated from IDR

Section 1A - Geotechnical

ULE90130-01-GEO-00001_rev2
 ULE90130-01-GEO-00002_rev3
 ULE90130-01-GEO-00003_rev3

Section 1A - Track

ETN(TRW=TD&ATB#055781_revA
 ETN(TRW=TD&ATB#055782_revA
 ETN(TRW=TD&ATB#055783_revA
 ETN(TRW=TD&ATB#055791_revA
 ETN(TRW=TD&ATB#055792_revA
 ETN(TRW=TD&ATB#055793_revA
 ETN(TRW=TD&ATB#055801_revA
 ETN(TRW=TD&ATB#055811_revA
 ETN(TRW=TD&ATB#055812_revA
 ETN(TRW=TD&ATB#055813_revA

Section 1A - Lindsay Road RTW

ULE90130-01-RTW-00020_rev3 - Updated from IDR
 ULE90130-01-RTW-00021_rev3 - Updated from IDR
 ULE90130-01-RTW-00022_rev3 - Updated from IDR
 ULE90130-01-RTW-00023_rev3 - Updated from IDR
 ULE90130-01-RTW-00024_rev4 - Updated from IDR
 ULE90130-01-RTW-00025_rev3 - Updated from IDR
 ULE90130-01-RTW-00041_rev3 - Updated from IDR
 ULE90130-01-RTW-00060_rev4 - Updated from IDR
 ULE90130-01-RTW-00066_rev4 - Updated from IDR

Design Assurance Statement – Section 1A

Section 1A - Tower Place Bridge

ULE90130-01-BRG-00081_rev6
ULE90130-01-BRG-00082_rev9
ULE90130-01-BRG-00083_rev9
ULE90130-01-BRG-00085_rev6
ULE90130-01-BRG-00086_rev7
ULE90130-01-BRG-00087_rev6
ULE90130-01-BRG-00088_rev6
ULE90130-01-BRG-00091_rev6
ULE90130-01-BRG-00094_rev6
ULE90130-01-BRG-00095_rev6
ULE90130-01-BRG-00096_rev6
ULE90130-01-BRG-00100_rev6
ULE90130-01-BRG-00101_rev6
ULE90130-01-BRG-00105_rev7
ULE90130-01-BRG-00107_rev6
ULE90130-01-BRG-00114_rev6 - Updated from IDR
ULE90130-01-BRG-00115_rev8 - Updated from IDR

Section 1A - Tower Place Bridge - Trackform

ULE90130-01-DRG-00945_rev1

Section 1A - Tower Place Bridge - OLE Interface - IDR ONLY

ULE90130-01-BRG-00191_iss1_rev1

Section 1A - Tower Place Bridge - E&B Design

ULE90130-01-BRG-00187_rev1
ULE90130-01-BRG-00188_rev1

Section 1A - Victoria Dock Entrance Bridge

ULE90130-01-BRG-00013_rev4
ULE90130-01-BRG-00014_rev4
ULE90130-01-BRG-00015_rev4
ULE90130-01-BRG-00017_rev4
ULE90130-01-BRG-00018_rev4
ULE90130-01-BRG-00019_rev4
ULE90130-01-BRG-00022_rev4

Section 1A - Victoria Dock Entrance Bridge - Trackform

ULE90130-01-DRG-00946_rev1

Section 1A - Victoria Dock Entrance Bridge - E&B Design

ULE90130-01-BRG-00189_rev1