APPENDIX

TECHNICAL / ENGINEERING ELEMENTS SUPPORTING DOCUMENTATION

- SITE SUPERVISOR ROLE
- PHOTO INDICATING DOCUMENTS REQUIRED AND READY FOR AUDIT
 - CLAUSE 105 REQUEST FOR AUDIT
 - INSPECTION TEST PLAN-REQUEST FOR WITNESS OR APPROVAL FORM
- INSPECTION TESTPLAN 005 DRAINAGE AND SERVICE DUCTS
 - INSPECTION TEST PLAN 015 STRUCTURAL CONCRETE
 - INSPECTION TEST PLAN 024 TRACKWORKS
 - INSPECTION TEST PLAN 037 ROAD PAVEMENT
- SITE INSPECTION PHOTOS OF PRINCES STREET 21 MAY 2010
 - NEW SUPERVISOR QUALITY CHECKLISTS
 - QUALITY MATRICS MEETING MINUTES
 - DELIVER A SAFE TRAM INSPECTION CHECKLISTS

SITE SUPERVISIORS ROLE

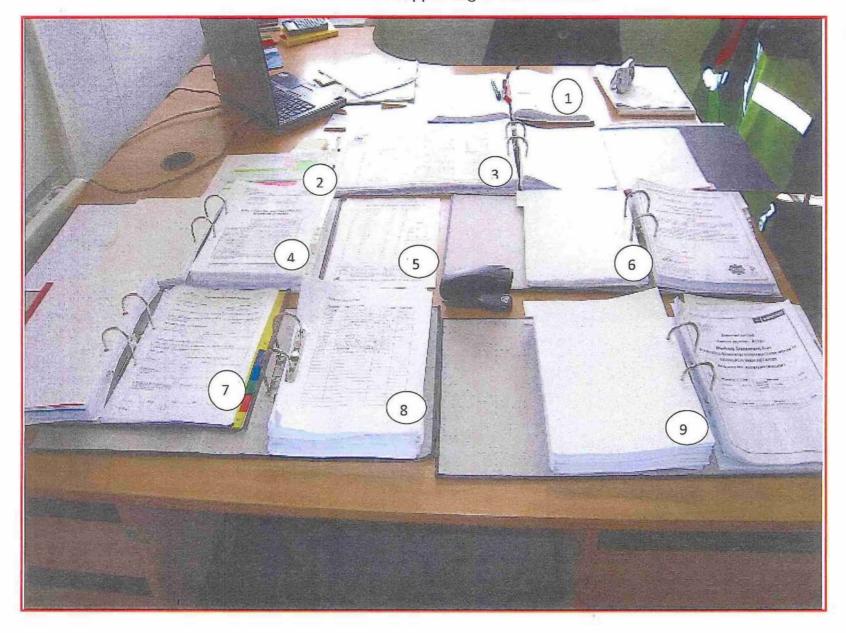
Site Supervisor Role

The requirement for TIE to have a site supervisory role is not required under the terms of the self certification contract; this role is undertaken by Bilfinger Berger. The presence of a TIE supervisors or Project Managers on site enables TIE to monitor the progress and help facilitate any needs the contractor may have in a timelier manner. There role would encompass the bullet points below.

- Daily record sheets which should include the following information
 - Day, Date and Weather conditions
 - Number of men on site this should include, management and labour from BSC and subcontractors
 - Activity being carried out
 - Plant on site both used and idle plant
 - A note of any conversations with contractor/subcontractors and ant outcomes
- Photographic evidence of work being done and issues or concerns,
- Audit of large and small plant on site,
- Ensure that work is being carried out in accordance with drawings, WPP and Method Statements,
- Monitor work against programme,
- Ensure that all relevant testing is being carried out and witnessed,
- Ensure that all relevant test and quality certification is being recorded/retained by BSC,
- Ensure that dilapidation surveys are carried out of areas prior to work commencing,
- Monitor and report and H&S and environmental issues,
- Be present at meetings with utilities and record discussions and outcomes of meetings,
- As required attend daily/weekly progress meetings with BSC/subcontractors
- Review and check allocation sheets submitted from BSC and subcontractors
- Review 2week look ahead programme issued by BSC to TIE indicating proposed work
- Weekly meetings with BSC to discuss programme and progress and any issues that need to be resolved
- Weekly meeting of all TIE Project Managers to report back to TIE Directors on site progress
- Go through the weeks allocation sheets with BSC and agree what is to be sent to the QS for payment

PHOTO INDICATING DOCUMENTS REQUIRED AND READY FOR AUDIT

ITP Supporting documentation.



- 1. Site Diary.
- 2. Site sketch.
- 3. Drawing schedule & IFC DWG pack.
- 4. Inspection and Test Plans.
- 5. Piling record form
- 6. CARES Certificates.
- 7. Witness for information and approval sheets.
- 8. Technical Queries Register.

Clause 105 Health & Safety, Quality Assurance and Environmental Management System

105. HEALTH AND SAFETY, QUALITY ASSURANCE AND ENVIRONMENTAL MANAGEMENT SYSTEM

- 105.1 The Infraco shall operate:
 - 105.1.1 a health and safety management system, the standard of which shall comply with OHSAS 18001 or HSG65;
 - 105.1.2 a quality management system, the standard of which shall comply with BS EN ISO 9001:2000; and
 - 105.1.3 an environmental management system, the standard of which shall comply with BS EN ISO 14001:2004;

which shall be known together as the "HSQE System".

- 105.2 The Infraco shall (and shall procure that the Infraco Parties) comply with the HSQE System and the Infraco shall develop appropriate management plans so as to ensure such compliance with the HSQE System.
- 105.3 If any Deliverable has not been prepared in accordance with the HSQE System, tie's Representative shall so inform the Infraco in writing giving reasons. If such non-compliance gives rise to a defect in the Infraco Works then the Infraco shall not be entitled to make any claim against tie for an extension of time or payment in respect of such defect.
- 105.4 Compliance with the HSQE System shall not relieve the Infraco from any of its other duties, obligations or liabilities under this Agreement.
- 105.5 The Infraco shall appoint (or shall procure the appointment of) an HSQE Manager as soon as reasonably practicable following the Effective Date. The identity of the HSQE Manager (and any replacement) shall be subject to the approval of tie's Representative (such approval not to be unreasonably withheld or delayed).
- 105.6 The HSQE Manager shall:
 - 105.6.1 ensure the effective operation of the HSQE System described in this Clause 105 (Health and Safety, Quality Assurance and Environmental System);
 - 105.6.2 audit the HSQE System at regular intervals and report the findings of such audit to tie's Representative;

105.6.3 review the HSQE System at intervals agreed with tie's Representative to ensure its continued suitability and effectiveness; and

105.6.4 liaise with tie's Representative on all matters relating to the HSQE System.

106. ENTIRE AGREEMENT

- 106.1 Except where expressly provided otherwise in this Agreement, this Agreement constitutes the entire agreement between the Parties in connection with its subject matter and supersedes all prior representations, communications, negotiations and understandings including the PB Agreement, Weisbaden Agreement and Rutland Square Agreement and the 9th May 2008 Agreement, concerning the subject matter of this Agreement.
- 106.2 Each of the Parties confirms to the other that it has neither been induced to enter into this Agreement in reliance on, nor has it made, any representation or warranty except those contained or referred to in this Agreement.
- 106.3 Any representations or warranties other than those contained or referred to in this Agreement are superseded and extinguished by this Agreement.
- 106.4 The Parties agree that the PB Agreement, Weisbaden Agreement and Rutland Square Agreement and the 9th May 2008 Agreement shall terminate forthwith on the Commencement Date and neither Party shall have any liability in respect thereof from the date of such termination.
- 106.5 Each Party irrevocably and unconditionally waives all rights and remedies which it might otherwise have had in relation to any representations or warranties other than those contained or referred to in this Agreement save in respect of any fraudulent misrepresentation.

107. FURTHER ASSURANCE

107.1 Each Party shall at the reasonable request and cost of the other (save where it is expressly provided that the cost of such act or execution shall be for that Party's account) do any act or execute any document that may be necessary to give full effect to this Agreement.

108. VARIATIONS TO BE IN WRITING

108.1 No variation or alteration of any of the provisions of this Agreement shall be effective unless it is in writing and signed by both Parties.

INSPECTION TEST PLAN - REQUEST FOR WITNESS OR APPROVAL

II Bilfinger	BERGER
	UXLimited

Request for Witness or Approval

Form:	F79-2
Rev:	A
Page:	1 of 1
Page:	1 of 1

Project:		30			Date:		
From:	170		To:		8.2		
We notify you of the opp	ortunity to examine	the fol	lowing:			12	
Location of Inspection:					Section No:		
				'			
Inspection Required:	- Hi		ITP No.		Activity No		
		- 51	Made on the			10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
will be ready for WITNES	SS/APPROVAL	at;	time:	date:			
Note we intend to under	take the follow-on a	ctivity o	of:				
	9						-
		at:	time:	date:			100
Received:		=	time;	date:			
Distribution 1 Site File (as raised) 2/3 Client						- E	
Result – This item has WITNESSED Cross reference any sup Reasons if not approved	NOT WITNESSED porting test results		APPROVED		NOT APE	PROVED	
121 120				12	E		1-4
	Signed:		time:	da	ate:		
Filing Site File (as raised)							
2/3 Client 3 Site file (when complet	e, replacing copy 1)	l					

INSPECTION TEST PLAN 005 – DRAINAGE AND SERVISE DUCTS

BILFINGER	BERGER
	Civil

Drainage Duct Inspection Checklist

Form: PSF79-22 Rev: A Date: 21/04/09 Page: 1 of 1

Contr	act : Edinburç	gh Tram Network				No. 25.1.20	1.00
Drain/	Service Run Fro	om:	To;		**********	ITP No	
Locati	on		Drawing] No / Rev	*************		
	-						+
		Upstream I.L.		Trench details - Sko	etch Dimens	sions and Mate	erlals
						<u>↓</u>	
			lns	spection/Test	Acc	Accepted Hand	
		Downstream I.L.		5 p 5 c c c c c c c c c c c c c c c c c	S/C Initlals, date	Bilfinger Initials, date	Handover Siemens Initials, date
				Upstream Chamber			
	landala namandian	on & Damileo Canadiana	Do	wnstream Chamber			
5	ketch connectioi	ns & Service Crossings		Duct Box(s)			1122-00
Dimon	sions / Data R	aviowad		Materials Excavated Base	-		
Dinter	Sions / Data IN	eviewed	Tren	ch Details Checked			
Notes:		.+		ne & Level Checked			intracioni -
+				Interim Pipe Tests:			
				Air Test*			
	For S/C or Bil	finger (Delete as appropriate)	1	Mandrel *			
Sign				Visual *	2.5		
Date			NCR R	Required Y/N NC	R No.		
Final In	spection / Test	£	THE STATES				
The ab	ove works have	been inspected and comply	with the	Approved Design a	nd the Emp	loyer's Requir	ements
Os	rganisation	Name (print)		Signatu	ire		Date
Su	b-Contractor					- 1	/09
Bilf	inger Berger	El				1	/09
	Siemens				4127		/09
* De	elete as appropria	te					
-							

BILFINGER BERGEF	ł
------------------	---

Inspection and Test Record

Form: F79-3 Rev: A Page: 1 of 1

Project:		1	Date:	
ITP Ref:			Test Ref:	
Location:			-	
Activity (Type of Inspection):			. 2	111
Type of Test (Niethod/spec for te	est):	Ti Ti		60
Standard Required (Acceptance	Criteria):			07000
Frequency:		138		
Tested by:				
Test Results:				
1+1				
		()		
			3.43	
91 4				
· 4				
- Fa - Sa				
Compliance check against acceptance criteria:	Acceptable / Not	Acceptable (Cross	reference any NCR)	ñ
Name:	Company:		Date:	
Name:	Company:	100	Date:	
Name:	Company:		Date:	2. 2. 117

INSPECTION TEST PLAN 015 - STRUCTURAL CONCRETE

BILFINGER BERGER

Concrete Pour Record

PSF79-31 A 1 of 1 Form: Rev: Page:

PROJECT:	Sheet No:
ITP Ref:	Pour Ref:
POUR LOCATION:	
Drawing No:	
Concrete Supplier:	Rate of Pour:
Quantity m ³ :	Time required:
Mix Spec:	Date required;
Minimum cure time to strike:	
Provisionally called off by & date:	Confirmed by & date:
PRE_CONCRETE Charked Date	Remarks (cross reference any NCR or other

	PRE-CONCRETE Description	Checked (initial)	Date	Remarks (cross reference any NCR or other records)
1	Surface Preparation	9 - 3 - 6	And the second	
2	Formwork			
3	Falsework			
4	Dimensions			
5	Reinforcement Correct			
6	Cover to Reinforcement			
7	Encast Items		3	
8	Cleanliness			
9	Temperature Checks (Ambient / Substrate)			
10	Earthing & Bonding			
11	Other:			
12	Pre-pour Checks Complete as Specified ('W'-Point)			
13	Pour can Commence	- 12	8	

	POST-CONCRETE Description	Checked (initial)	Date	Remarks (cross reference any NCR or other records)
13	Weather conditions at striking			
14	Striking-time / date	1		3
15	Curing			
16	Finish			
17	Encast Items			
18	Other:			
Rem	arks:		277	11.

The above works have been inspected and comply with the Approved Design and the Employer's Requirements

Organisation	Name (print)	Signature	Date
Sub-Contractor			/ 109
Bilfinger Berger			1 /09

Form to be used in conjunction with F79-6.

INSPECTION TEST PLAN 024 - TRACKWORKS

Document CQF006 Version 1.0 Date 13-8-200		1 1	Edinburg Tram Network Rheda open formation quality form					
Prolect	number:	- 1	28025	Project name	Edinburgh Tr	ram Network		infra
Date:				Registration by:		-		
ימומי				Registration by:		Nı		
Orawing n	umber:			Requirements:				
Track sect	fon:							
Code		Description				Remarks		Metho
Start co	nditions	+ approved, - o	disapproved, 0 s d	iot applicable		-1		
S1	1000	FPL is at corre	ct level below T	OR (tolerance 0 / -30mm)		T		Survey
SS2				ved and accepted		1		CRF001
883	1		eems compacte			1	all control	Visual
684				out holes (busway/structure:	s)			Visual
Site superv	risor				Construction ma	nager		
Pate:	/ /	Stage			Date:	1 1		
SL.	+ - 0	Sleepers				5,11		
SL1	000	Sieepers recta	ngular to rails			1		Visual
L2	000	Sleeper distant	:e 750 mm (+15	i mm/-15 mm)				Check
L3	000	Sleeper distance	ce on structures	as in drawing				Visua1
	2 2 2		amaged around					Visual
L4 L5	2 2 2			fastenings stenings) is used				Visual Visual
LS Velding	O O O	Right type of si	eepers (incl. fas		on forms)			_
L5 Velding W	Stage + - o	Right type of si	eepers (incl. fas	stenings) is used	on forms)			
L5 Velding W W1	Stage + - 0	Right type of si Aluminio the Welds are mad	eepers (incl. fas	stenings) is used check of weld registrati	ion forms)			Visual
LS Velding W W1	\$tage + - 0	Right type of si Aluminio the Welds are mad Welds are visu	eepers (incl. fas irmic welds (i e according to r	stenings) is used check of weld registrative operations disproved	on forms)			Visual CRF004
Velding W W1 W2 W3	Stage + - 0	Right type of si Aluminio the Welds are mad Welds are visu	eepers (incl. fas armic welds (i e according to r at inspected and	stenings) is used check of weld registrative operations disproved	on forms)			Visual CRF004 Visual
Velding W W1 W2 W3	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visu Geometry of we Welds are uitra All material (sa	eepers (incl. fas ermic welds (in electring to real at inspected and electric approved and, moulds, steep	check of weld registrative egulations deproved eances	on forms)			Visual CRF004 Visual CRF005
	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visu Geometry of we Welds are uitra All material (sa	eepers (incl. fas armic welds (o a according to r al inspected and alds within tolers sonic approved	check of weld registrative egulations deproved eances	on forms)			CRF004 Visual CRF005 CRF006
Veiding W W1 W2 W3 W4 W5	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Afuminio the Welds are mad Welds are visus Geometry of we Welds are uitra All material (san	eepers (incl. fas ermic welds (i e according to r at inspected and elds within tolers sonic approved nd, moulds, stee fyed on welds a	check of weld registrative egulations deproved eances	on forms)			CRF004 Visual CRF005 CRF006 Visual
Velding W W1 W2 W3 W4 W5 W6 W7	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visus Geometry of we Wolds are ultra All material (sa All reports receistressing welds ge	eepers (incl. fas rmic welds (i e according to r al inspected and elds within tolera sonic approved and, moulds, stee fred on welds at a re left open at	check of weld registrations deproved ances order removed and weld testing				CRF004 Visual CRF005 CRF006 Visual Check
Velding W W1 W2 W3 W4 W5 W6 W7	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visus Geometry of we Wolds are ultra All material (sa All reports receistressing welds ge	eepers (incl. fas ermic welds (i e according to r al inspected and elds within tolera sonic approved and, moulds, stee fived on welds and ere left open and gs	check of weld registrations deproved ances all are removed and weld testing and temporary fixed				CRF004 Visual CRF005 CRF008 Visual Check Check
Velding W W1 W2 W3 W4 W5 W6 W7	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visu Geometry of we Wolds are ultra All material (sa All reports recei Stressing welds	eepers (incl. fas rmic welds (i e according to r at inspected and elds within tolera sonic approved nd, moulds, stee fived on welds and are left open and gs at right torck (ci	check of weld registrations deproved ances all are removed and weld testing and temporary fixed	n			CRF004 Visual CRF005 CRF008 Visual Check Check
Jeiding W W1 W2 W3 W4 W5 W6 W7	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visu Geometry of we Welds are uitra All material (sa Alf reports recei Stressing welds ge Rail fastening Fastenings are Track alignm Horizontal Align	eepers (incl. fas rmic welds (i e according to r at inspected and elds within tolera sonic approved and, moulds, stee fived on welds an are left open an are left open an are right torck (ci ent ment, check ev	check of weld registrative guitations deproved ances by are removed and temporary fixed	n			CRF004 Visual CRF005 CRF006 Visual Check Check
/elding // // // // // // // // // // // // //	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visu Geometry of we Welds are vitra All material (sa All reports recel Stressing welds ge Rall fastening Fastenings are Track alignm Horizontal Align Vertical Alignm	eepers (incl. fas rmic welds (i e according to r at inspected and elds within tolera sonic approved and, moulds, stee fived on welds an are left open an are left open an are right torck (ci ent ment, check ev	check of weld registrative equiations of approved ances by are removed and temporary fixed media to every 24) 100-120 Noter the street of th	n			CRF004 Visual CRF005 CRF006 Visual Check Check Check
/elding w W1 N2 N3 V4 V5 V6 V7	Stage + - 0 O O O O O O O O O O O O O O O O O O	Aluminio the Welds are mad Welds are visu Geometry of we Welds are visu Geometry of we Welds are uitra All material (sa All reports recel Stressing welds ge Rail fastening Fastenings are Track alignm Horizontal Align Vertical Alignms Straight track le	eepers (incl. fas armic welds (i a according to r al inspected and elds within tolera sonic approved and, moulds, stee fived on welds a are left open a are left open a ment, check every vel (tolerance +	check of weld registrative equiations of approved ances by are removed and temporary fixed media to every 24) 100-120 Noter the street of th	n			CRF004 Visual CRF005 CRF008 Visual Check Check Check CRF002 CRF002
/elding ww W1 N2 N3 V4 V5 V6 V7 Ine Alig	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visus Geometry of we Wolds are uitra All material (sal All reports recei Stressing welds ge Rail fastening Fastenings are Track alignm Horizontal Align Vertical Alignme Straight track le Cant in curved t	eepers (incl. fas rmic welds (i e according to r at inspected and elds within tolers sonic approved and, moulds, stee fived on welds ar are left open ar are left open ar gs at right torck (ci ent ment, check every vel (tolerance +, rack as in drawi	check of weld registrative guitations of approved ances by are removed and temporary fixed medical every 24) 100-120 Note that the strength of the strength	n			CRF004 Visual CRF005 CRF006 Visual Check Check Check CRF002 CRF002 CRF002
Veiding W W1 W2 W3 W4 W5 W6 W7 Ine Alig	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visus Geometry of we Wolds are uitra All material (sa All reports recel Stressing welds ge Rail fastening Fastenings are Track alignme Straight track le Cant in curved t Cant in straight	eepers (incl. fas rmic welds (i e according to r al inspected and elds within tolers sonic approved and, moulds, stee fred on welds ar are left open ar are left open ar right torck (ci ent ment, check every vel (tolerance + rack as in drawi track as in drawi	check of weld registrations deproved ances and the removed and the registrations deproved ances and the removed and the remo	n			CRF004 Visual CRF005 CRF008 Visual Check Check Check CRF002 CRF002 CRF002 CRF002
Veiding W W1 W2 W3 W4 W5 W6 W7 ine Alig F F1 A M1 M2 M3 M4 M4 M4 M5	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visus Geometry of we Wolds are uitra All material (sa All reports recel Stressing welds ge Rail fastening Fastenings are Track alignme Straight track le Cant in curved t Cant in straight	eepers (incl. fas rmic welds (i e according to r al inspected and elds within tolera sonic approved and, moulds, stee fixed on welds ar are left open ar are left open ar gs at right torck (ci ent ment, check every vel (tolerance + rack as in drawing (to	check of weld registrative guilations of approved ances of weld testing on temporary fixed one of the testing o	n			CRF004 Visual CRF005 CRF006 Visual Check Check CRF002 CRF002 CRF002 CRF002 CRF002 CRF002
Velding W W1 W2 W3 W4 W5 W6 W7	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visus Geometry of we Wolds are uitra All material (sa All reports recel Stressing welds ge Rail fasteming Fastenings are Track alignme Horizontal Alignme Straight track is Cant in curved to Cant in straight Cant transition a	eepers (incl. fas rmic welds (i e according to r al inspected and elds within tolera sonic approved and, moulds, stee fixed on welds ar are left open ar are left open ar gs at right torck (ci ent ment, check every vel (tolerance + rack as in drawing (to	check of weld registrative guilations of approved ances of weld testing on temporary fixed one of the testing o	n			CRF004 Visual CRF005 CRF008 Visual Check Check Check CRF002 CRF002 CRF002 CRF002 CRF002 CRF002 CRF002 CRF002
Velding W W1 W2 W3 W4 W5 W6 W7 ine Alig F F1 A A1 A2 A3 A4 A4 A5 A5	Stage + - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aluminio the Welds are mad Welds are visu Geometry of we Wolds are ultra All material (sa All reports rece Stressing welds ge Rait fastenting Fastenings are Track alignm Horizontal Alignm Vertical Alignme Straight track le Cant in curved t Cant in straight Cant transition a Radius curves a	eepers (incl. fas rmic welds (i e according to r al inspected and elds within tolera sonic approved and, moulds, stee fived on welds a e are left open al er are left open al ment, check every vel (tolerance + rack as in drawling track as in drawling is in drawling	check of weld registrative guilations of approved ances of weld testing on temporary fixed one of the testing o	1			CRF004 Visual CRF005 CRF008 Visual Check Check Check CRF002 CRF002 CRF002 CRF002 CRF002 CRF002 CRF002 CRF002

Concreting stage

CQF006-Rheda Open

Print date:17-8-2009

Document		CQF006	E	dinburg Tram No		47 bam		
Version Date		1.0 13-8-2009	Rheda	a open formation o	uality form		infra	
Project	กบmber:	19	28025	Project name	Edinburgh Ti	ram Networ		
Date:	1-1-			Registration by:		117	Nr	
Drawing n	umber:			Requirements:			-000	
Track sect	ion:							
Code		Description		37 112	34.34	Remarks		Method
	-	+ өрргахед, -	disapproved, 0	not applicable				
CS	+-0	Concreting (t	hird party acti	vity)				
CS5	000	Struts applied	and secured by	BAM?	illis .		_	Visual
CS1	000	Proposed BAN	A procedure fol	owed?				Visuaf
CS2	000	Photographs t	aken				-75	Visuat
CS3	1000	Track not distu	ubed? (concret	e hose/labour)				Visual
Ç\$4	1000	Rails free of co	oncrete?			1		Visual
Bonding TO	+-07	frack bondi						
TO2			correct mounte					Visual
TO3	10001	Track bonding	approved by S	lemens		1		Visuef
Finishin TO	-	Temporary f	īxtures					
TO2	1000	Spindles all rer						Visual
тоз	1000				115.20		5	Visual
Site supervi	isor				Construction ma	nager		
Date:	1 1				Date:	1 1		

Document	NCR001	Edinburgh Tra	ım Ne	etwork	
Version	1.0	NCR001-Rep	oort		17 bam
Date	17-8-2009				
					infra
Project number:	28025	Project name	- 3	Edinburg	h Tram Network
Date:		Composed by			
Supplier		NCR number			
Batch nr:	100				
Location Details					
Location	[Chaina	ae		
Street name		Other	54		
Dai GGE HAMIG	12] • ((1.0)			
Track type		In / Out	bound	track	
Curve Radius		Left leg			
	L	Right le			
		•			
Rail markings					
Left	Profile	Rig	he	Profile	
	Brand			Brand	
	Month			Month	
	Year	2014 purple		Year	-
	Hardness			Hardness	
Problem analysis					
rioblem analysis	Weld	Alignme	ont (V/A	\	Drainage box
i –	Rail	Alignme			Chamber elements
F	Rallhead	Can't	ane fritzi	′ . ⊢	Joint Sealing
-	Sleeper spa			<u></u>	Concrete
-	Other/	chig Gauge	_		Jooncrete
_	remark				
	remark				
			-		
		·			
				_	1457
				1	Name:
					Date: / /
					Dato: I

Document	NCR001	Edinburgh Tran	n Network	-57.
Version	1.0	NCR001-Report		n bam
Date	17-8-2009			
				infra
Project number:	28025	Project name	Edinburgh T	ram Network
Dale:		Composed by		
Supplier		NCR number		
Balch nr: Situation sketch				
				The second secon
	Insert Pict	ire./ or make sketch		
Situation details	7			
	1 50			

NCR001-Report

Page: 2 of 3

Document	NCR001	Edinburgh Tram	Network	
Version	1.0	NCR001-Repo	ort	Ty Dam
Date	17-8-2009	,	1	
				infra
Project number:	28025	Project name	Edinburgh	Tram Network
Date:		Composed by		
Supplier		NCR number	Section 1985	article annihilation are
Batch nr:				
Corrective action				
	Ц			
m. s. 14	<u>r</u>	1		
Priority	Ļ.	High (24 hours)	Notify to	∐ TIE
	Ĺ	Medium (1-7 days)		☐ BSC
	<u>_</u>	Low (>7 days)		SAG
		No action needed		BAM (internal)
M] M-4/5-W L174		
Discovered by	l	Notification by client Maintenance	Name Ī	
	<u> </u>			
	<u></u>	Incidental	Function	
	L	Construction		
Date discovered				
	77.5			
Temporary measure			50	
Planned measure				
Remarks				
			0	
			V 2.2.00 %2	
		Carrier Comp.	-52	
		.01 (8)		
		Construction manager		Site Supervisor Siemens
		Date: / /	TO THE PARTY OF TH	Date: / /

NCR001-Report Page: 3 of 3

<u>INSPECTION TEST PLAN 037 – ROAD PAVEMENTS</u>

BILFINGER BERGER

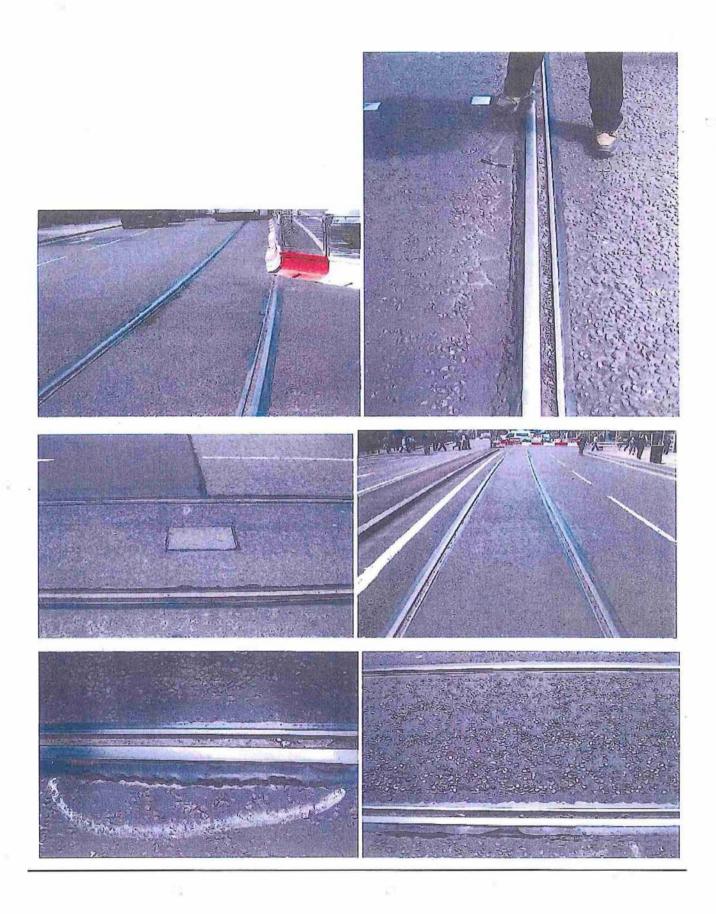
Inspection of Formation Checklist

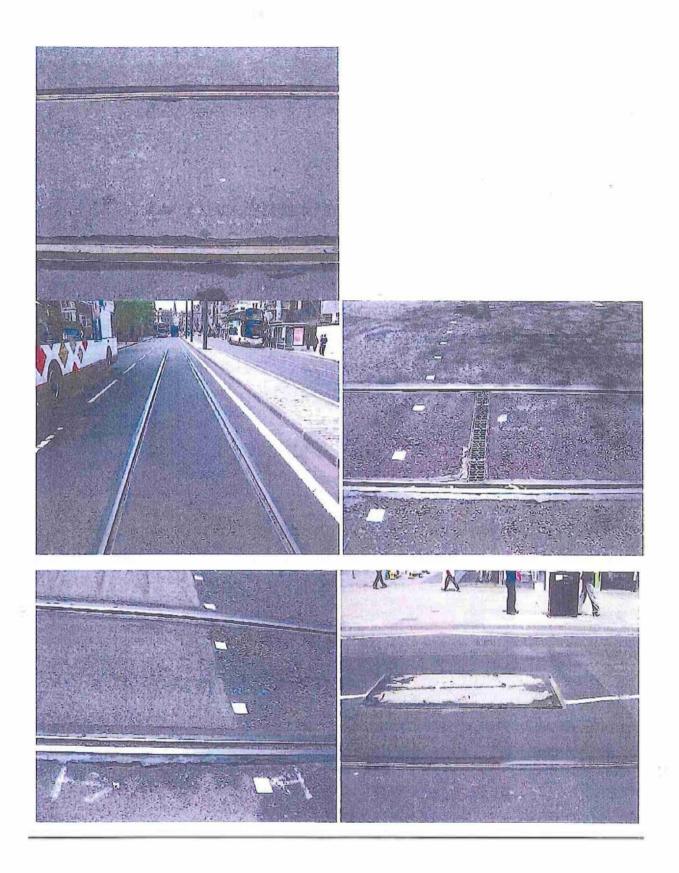
Form: Rev: Date: Page: PSF79-23 A 21/04/09

No. 25.1.201.00 Contract: Edinburgh Tram Network Formation Level/Type (indicate √) Top of Sub-Base Sub-Formation Formation Top of Basecourse Top of Wearing Course Top of Binder Location & description of works to be inspected: General Arrangement: ITP No: Reference Drawing Nos.: Details: Are Compaction Tests Required? YES / NO * Record Sheet No.: Are Settlement Tests Required? YES / NO * Record Sheet No.: Dips Required? YES / NO * Record Sheet No: Designed Batter Slope: Any other Checks or Tests Required? YES / NO * Record Sheet No .: Checks Sub-Contractor Bilfinger Berger Siemens Items Checked* Signature/date Signature/Date Signature/date Visual Inspection Setting Out & Levels Cleanliness & Dryness Compaction Tests Settlement Tests Soft Spots Membrane Coverage & Laps **Cutting Slope** Batters ITP No. 37** Items Checked NCR Required? Yes / No NCR No. General Comments (including any need for counterfort drains, starter layer etc.): Final Inspection / Test The above works have been inspected and comply with the Approved Design and the Employer's Requirements Organisation Name (print) Signature Sub-Contractor /09 /09 Bilfinger Berger /09 Siemens ** Denotes 'Road Pavements' ITP * Delete as appropriate

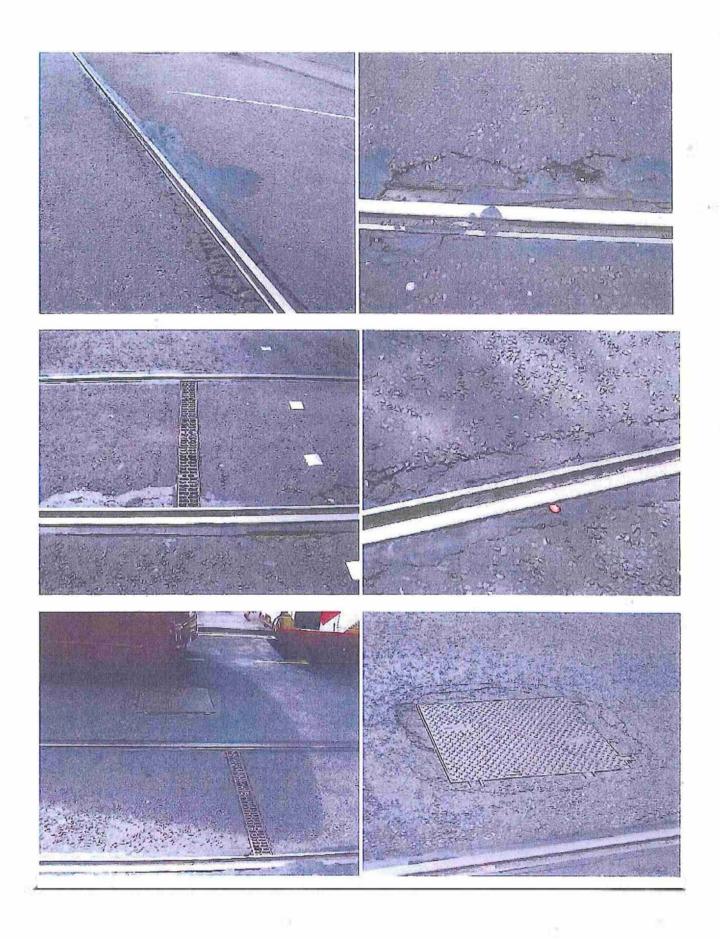
BILFINGER	BERGER Klimijed	Dip Sheet						F79-8 A of
Project:				-111111111	Date:		Page:	
ocation (inc. c/way)	8 ************************************			Block-up	•		
Chainage:			**************		Theoretic	al dip:	**********	
Surface ch	ecked:	· · · · · · · · · · · · · · · · · · ·			. Tolerance	* *	.mm/	mm
Note: Tra	nsverse gr	id to be maxi	mum 2m s	pacing.	Acceptab	le dips:	to	
			GRID (Right cha	nel to be en	tered)		
CHAINAGE	Left channel		T		,			
					1.0			A
								-
-							+-	-1-
							+	-
			ं			-	-	
						1.		
		- 31						
								1
								1000
			-	Alfred C			1	
		-	-	-	- 1/2 - 1		-	1
			-				-	1
							1	
===1								2) 1
lips agree		BBUK; Client's Engli Subcontracto	пеет:					

SITE INSPECTION PHOTOS OF PRINCES STREET 21 MAY 2010











NEW SUPERVISORS QUALITY CHECKLIST



1. Inspection Location	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Location/ Street Name:			Secti	on:	
Activity:	Utility Installation.	-			
Individual:			Trade	e:	Foreman / Ganger
Individual:			Trade	9:	Site Agent / Engineer
2. Competency		YES	NO	N/A	COMMENTS
City and guilds / NVQ					
Experience					
CSCS Card available					
3. Specifications / Sta	ndards	YES	NO	N/A	COMMENTS
Specification detailed?					
Specification available on	site?				
Specification details adher	ed to on site?				
4. Drawings / Design	1000	YES	NC	N/A	GOMMENTS
Drawing schedule available	e?			- an sechestral designation	
Correct revision on site and	d in use?				
Signed as approved by de	signer?				
5. Contractor Supervis	ion	YES	NO	N/A	COMMENTS
ls the contractors Supervis	sor present				
Is the Supervisor using the	checklist				
Is the Supervisor checklist	signed off				
6. Contractor Permits		YES	NO	N/A	COMMENTS
Is permit to dig in place					
ls evidence of Track inspe	ction				
ls trench support adequate	e?				
7. Inspection & Test P	lans (ITP's)	YES	NO	N/A	COMMENTS
Latest revision of ITP on-s	ite?				
Can operative demonstrat	e knowledge of ITP?				
Witness forms sent to tie/S	SDS.				
8, tie Supervisor:	他們們說說				
General Comments:					
Name:	Si	gnature	e:		Date:



1. Inspection Location				
Location/ Street Name:		Secti	on:	
Activity: Structural Concr	ete			
Individual:		Trade	e:	Concrete Foreman / Ganger
Individual:		Trade	ə:	Site Agent / Engineer
2. Competency	YES	NO	N/A	COMMENTS
City and guilds / NVQ				
Experience				
CSCS Card available				25 04
3. Specifications / Standards	YES	NO	N/A	COMMENTS
Specification detailed?				
Specification available on site?				
Specification details adhered to on site?				8
4. Drawings / Design	YES	NG	N/A	COMMENTS
Drawing schedule available?				
Correct revision on site and in use?				
Signed as approved by designer?				
5. Contractor Supervision	YES	NO	N/A	COMMENTS
Is the contractors Supervisor present				
Is the Supervisor using the checklist				
Is the Supervisor checklist signed off				
6. Contractor NCR's	YES	NO	N/A	COMMENTS
NCR register in place				
Agreed action in place				
NCR's Close in time				
7. Inspection & Test Plans (ITP's)	YES	NO	· N/A	COMMENTS
Latest revision of ITP on-site?				
Can operative demonstrate knowledge of ITI	P? 🗆			
Witness forms sent to tie/SDS.				
8. tie Supervisor:				
General Comments:				
Name:	Signature	e:		Date:

Record: CR8232.11



1. Inspection Location					
Location/ Street Name:		Sec	ction:		
Activity:	Earthing Requirement	nts:	V/		
Individual:			Trade	9:	Operator / Foremen / Ganger
Individual:			Trade	: :	Site Agent / Engineer
2. Competency	for the spin	YES	Ю	MA	COMMENTS
City and guilds / NVQ related Earthing	ting to Electriclal				
Experience					
CSCS Card available					
3. Specifications / Star	Porto suppression a Sycretic extension	YES	NO	MIA	COMMENTS
Is the Siemens"Earthing an railways Report 19/09/0"8 i	efered to on site?				
Has 24 hour notice been gi structure.					
Does the CVI refer to the s structure?	tandard for each				
4. Inspection and testi	igT.	YES	NO	N/A	COMMENTS
Are digital photos of conne	ctions available?				
Has pre-concreting witness & SDS?	forms been sent to ti	е			
Has the forms been signed	off?				
5. Contractor Supervis	ion and the same	YES	NC	M/A	COMMENTS
Is the contractors Supervis	or present?				
Is the Supervisor using the	checklist? Appendix	1 📗			
Is the Supervisor checklist	signed off?				
7. Reinforcement Bar		YES	NO	N/A	COMMENTS
ls Checklist PSF79-31 con	nplete?				
ls the checklist accompani	ed by a CARES cert?				
Is the re-bar visual free fro rust?	m damage caused by				
8, tie Supervisor:				1	
General Comments:					
Náme:	Sig	nature:			Date:



GUIDANCE NOTES* APPENDIX 1

Inspection of Foundation	Edinburgh Tram Network		
Test according to drawing no.	Check date:		
Test location (chainage)	Document Code		
No. of digital photos			

No.	Check items	satisfa	ictory	Remark
MO.	Check Items	Yes	No	испиятк
	Pile foundation:			
1	min. 4 piles have earth rod of min 5 m (item 7 in sketch)			Y 17
2	earth rods are connected to each other (item 6 in sketch)		-#1	
3	2 rods will be accessible after pouring of concrete for connection to pile cap (item 5 of sketch)	==		常
	Base Slab/Pile Cap/Block foundation:			
4	Lowest rebar layer connected to a grid (item 6 in sketch)			
5	Grid connected to starter bars of column/pier (item 5 of sketch)			
	Column/Pier			п=
6	Continuous rebars from bottom to top (item 5 in sketch)			
7	vertical rods have cross connection on top			
8	If bearing: 2 Earthing terminals at top		100	
9	If no bearing: 2 rods will be accessible after pouring of concrete for connection to deck slab			
	General		22	
10	all earthing material has min 16 mm diameter (or other shape min 200 mm²)			
11	Earthing terminals are M16 stainless steel			
12	if connections are welded, all weldings have min 100mm (single side) or 2x 50mm (double side) length			
13	Connections are clamped			

Approval for pouring of concrete		

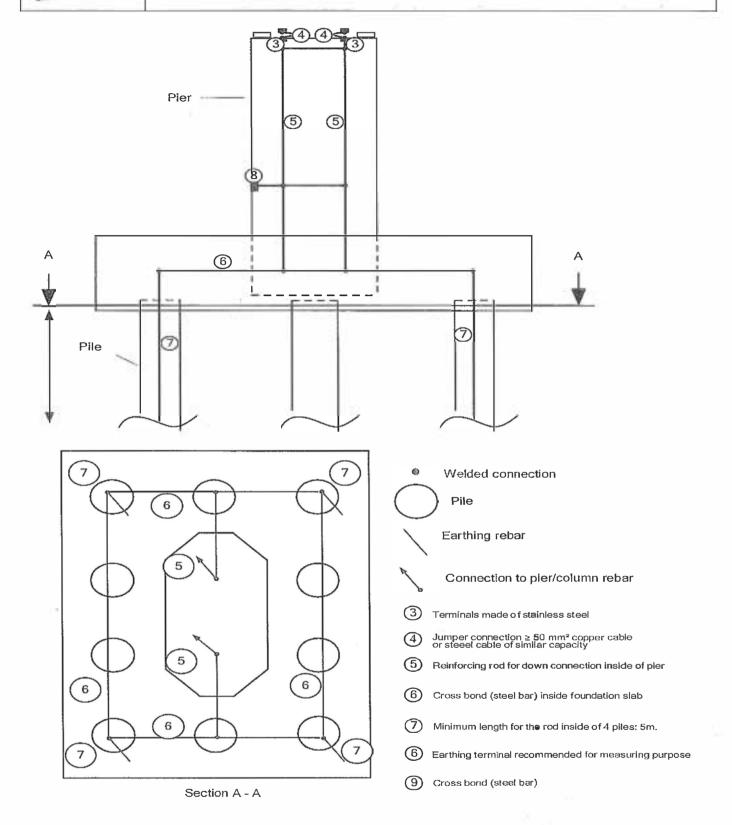
Comment.	1	Com	dition

Record: CR8232.11

Revision No.: 1/0
ELECTRONIC COPY - UNCONTROLLED IF PRINTED
tie Ltd

Page 2 of 3





QUALITY MATRICS MEETING MINUTES



Edinburgh Tram Network Meeting Minutes

Subj ect	Quality Metrics Meeting		Location	Consor	tium Office	
Date	01 Februar	01 February 2010		10h00	Filling FMF In Mr 4 (millings as a propriate reason recommend and a state of the second and a state of the st	
Attendees		Representing	Attendees	на наого Того описание и	Representing	
lan Brazenall (IBr)		BSC	Jim Ritchie (J	Ri)	tie	
lain Crawford (ICr)		BSC	Karl Ivanov (K	(lv)	tie	
Arran Haynes (Aha)		BSC	transfer and the second		is alles of	
Distribution Attendees + S Rottha			aus (BSC), J Donal	dson (BSC), R Bell (tie).	

fhameman ammir en abshar esess	The second secon	Action	Date
1	Guided Busway	MENNENNENNENNENNENNENNENNENNEN	
1.1	(JRi) No AFC's available – When will these become available? IBr, These will be available when all designs are complete – Section 5 is expected mid February.	Note	
1.2	(JRi) requested minutes for previous IDR meetings. IBr to provide.	lBr	22-02-10
1.3	(JRi) – There are no close-out dates on the IDR/IDC minutes IBr – Dates are difficult to introduce into the meetings due to the nature of the review, but would try and enforce for future meetings.	Br	22-02-10
1.4	(JRi) – Still no updates on the Hazard log. This was supposed to be Monthly BB to chase.	lCr ·	22-02-10
1.5	(JRi) noted that Aha has the ITP's in place and was happy with the progress.	Note	
1.6	(JRi) Noted that the track welds were not stamped at certain locations. No Siemens/Bam Present at the meeting.	Note	
1.7	(JRi) enquired about the status of the as-built information. ICr noted that the as-built information is still ongoing and would confirm status.	lCr	22-02-10
1.8	(JRi) enquired about the status of the asset register. BB to chase	lCr	22-02-10
2.0	CarrickKnowe	**************************************	The second secon
2.1	(JRi) requested documentation for current earthing and bonding measures. ICr commented that a CVI was in place and would forward information.	lCr	22-02-10
2.2	(JRi) commented that there was no evidence of checks/certifications and would like to see progress.	Note	defectively personal
2.3	(JRi) requested that an "IDR Tracker" be made available. IBr to action.	Note	

2.4	(Klv) requested ETN H&S pass, that he has had the induction but has not received his pass to date.	ic r	22-02-10
-	ICr to action		
2.5	(JRi) to check Russel Road ITP	Note	
3.0	AOB	**h	
	Next Meeting		Committee of the late of the l
	Friday 19 February 2010 12h00 Consortium Office	Note	
			1



Edinburgh Tram Network Meeting Minutes

Subject	Quality Metrics Meeting 22 February 2010		Location	Consortiu	ım Office
Date			Time 10h00		THE RESERVE THE PROPERTY OF TH
Attendees		Representing	Attendees		Representing
lan Brazenall (IBr)		BSC	Oliver McLoughlin (OMc)		BSC
lain Crawford (ICr)		BSC	Sheena Smith (SSm)		tie
Arran Haynes (AHa)		BSC	Karl Ivanov (KIv)		tie
Originator:		lain Crawford (BSC)	1	a - punch secretaris mangapan da Promit yin alikularat	The state of the s
Distribution		Attendees + S Rotthau	s (BSC), John R	iley (BSC), J	Ritchie (tie), Holger
		Platte (BSC), J Chandl	er (SDS), E Ingli	s (BSC), Inek	e Van-Klaveren (BSC).

Item Nr.	ltem	Action	Date
.0	Guided Busway		11.838.0
1.1	(JRi) No AFC's available – When will these become available? (IBr, 01-02-2010), These will be available when all designs are complete – Section 5 is expected mid February. IBr – (Update) All Civils completed designs are anticipated for the end of March as per the current program.	Note	
.2	(JRi) requested minutes for previous IDR meetings. Br to provide.	lBr ,	08-03-10
1,3	(JRi) – There are no close-out dates on the IDR/IDC minutes. IBr – Dates are difficult to introduce into the meetings due to the nature of the review, but would try and enforce for future meetings.	lBr	08-03-10
1.4	 (JRi) – Still no updates on the Hazard log. This was supposed to be Monthly. Post Meeting Note: – JRi received an email from John Riley (JRy)-19th February 2010. Email highlights: Work on the hazard log is well underway and a fair amount of work has already been referenced within. It is available for viewing anytime. The current program for the Hazard Log Manager is to ensure that all hazard log owners to have all evidence available for review by the end of March 2010. A 4-day review is planned for the 2nd/3rd weeks of April 2010. If the PSCC Sub-Committee are satisfied with the responses/reviews and hazards have been mitigated they will recommend that the hazards are closed for that phase of the project. Currently no hazards are closed. 	Note	
1.5	(JRi) noted that AHa has the ITP's in place and was happy with the progress.	Note	
1.6	(JRi) Noted that the track welds were not stamped at certain locations. AHa – Noted that Siemens have inspected the welds and no further action is required. SSm noted that the weld stamps were not in their regular locations.	Note	

1.7	(JRi) enquired about the status of the as-built information.	illin semenan as tilan ¹¹⁸ Aramit am s ^{2 o}	rapermus karlmanskihir it konzen i i i i i i i
0.000	ICr noted that the as-built information is still ongoing and would confirm status. Email sent and await response.	ICr	08-03-10
1.8	(JRi) enquired about the status of the asset register.		
	BSC to chase	lCr	08-03-10
6.	ICr – Email has been sent, still awaiting confirmation.		
1.9	Planned inspections		
	SSm – noted that this is with Siemens and JRi would go direct to Ineke Van-Klaveren (Siemens)	Note	
2.0	CarrickKnowe Unde rbridge		
2.1	(JRi) requested documentation for current earthing and bonding measures.	riffiant generate en bereen 18 fra ma en em la seas l	gg p = \$\frac{1}{2} \sqrt{1} \sqrt{2}
	ICr commented that a CVI was in place and would forward information.	Note	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
	ICr – CVI-0124 sent (Item can be closed out)		
2.2	(JRi) commented that there was no evidence of checks/certifications and would like to see progress.	Note	
	JRi to clarify.	. Minute som e	<u> </u>
2.3	(JRi) requested that an "IDR Tracker" be made available.	l8r	08-03-10
	Br to action. (Kiv) requested ETN H&S pass, that he has had the induction but has		
2.4	not received his pass to date.	Note	
	Kiv – Issue has not been resolved (Item can be closed out)		
2.5	(JRi) to check Russell Road ITP	Note	
2.6	Planned Inspections	Note	
	Aha – Inspections are ongoing.		
3.0	Haymarket Viaduct		
3.1	Haymarket Viaduct - Graham AHa –Paperwork complete.	Note	1
	Post meeting note: - Site visit in two weeks time. Tower Place Bridge	ang Ale Mana, source	
4.0	Tower Place Bridge –	 	
4	Aha Meeting held with McKeans 12.02.10. No issues to report.	Note	economical development
	Paperwork and drawings made available and up to date. Section 7 Airport Earthworks		
5.0	SSm Asset Register- Still no evidence.		
5.1	Same as Item 1.8	Note	14, 14
5.2	SSm - Inspections		
0.6	Aha – From the previous inspection, Farrans (19.02.10) were required to provide calibration certificates. Drawing discrepancies were also noted although JRi appeared to have been given a drawing list from	JRi	08-03-10

	SDS which did not match IFC drawings available on BIW.		
	JRi to confirm the source of the drawings he had received.	eri dicida Haristina	
6.0	Gogarburn Bridge		and the second
6.1	Gogarburn Bridge – Structures Aha – Planned Inspection (26.02.10) ready to go ahead.	Note	
7.0	Depot	ĺ	
7.1	Depot – Post Meeting Note:-Meeting planned for 05.03.10 to assess the depot structure.	Note	
8.0	System Integration Plan (Employers requirements)	1	
	Not Discussed	d Myndian Manual	
9.0	System Integration (Infraco Contract) SSm – Draft has been issued and is available.	Note	ah sa marandamasanan
10.0	AOB .		
10.0	(SSm) - Check-sheet	<u></u>	
	SSm – Rev 2.3 of the check-sheet is now available and will be forwarded via email. The only changes are to the wording which should help to close out a few outstanding issues.	Note	
10.2	(SSm) – Period Reports SSm - Reports will be revised from period 12 to include more information	Note	
11.0	Naxt Meeting	Note	
ور وواد المراجع	Monday 08 March 2010 10h00 Consortium Office	Note	There is no have an one first fidely
, _{—po} rque négli p á m e, pje néj me me me pje ne		eueus suem milwiddish na tarr	MODEL SHOW I



Edinburgh Tram Network Meeting Minutes

Subject	Quality Me	Quality Metrics Meeting		Consort	tium Office
Date	08 March 2	2010	Time	10h00	
Attendees	70.0	Representing	Attendees		Representing
Holger Platt	te (HPI)	BSC	Sheena Smith	ı (SSm)	tie
lain Crawford (ICr)		BSC	Kari Ivanov (KIv)		tie
Arran Hayn	es (AHa)	BSC			
Originator:		lain Crawford (BSC)			
Distribution		Attendees + S Rotthaus (BSC), John Riley (BSC), J Ritchie (JRi) (tie),			
		Holger Platte (BSC), J (BSC).	Chandler (SDS),	E Inglis (B	SC), Ineke Van-Klaveren

Item Nr.	ltem	Action	Date
1.0	Guided Busway		
1.1	(JRi) No AFC's available – When will these become available? (IBr, 01-02-2010), These will be available when all designs are complete – Section 5 is expected mid February.	Note	
	IBr (Update) All Civils Civils completed designs are anticipated for the end of March as per the current program	l8r	05-04-10
1.2	(JRi) – There are no close-out dates on the IDR/IDC minutes. IBr – Dates are difficult to introduce into the meetings due to the		
	nature of the review, but would try and enforce for future meetings.	Note	
	ICr – (Update) Close out dates for each item are anticipated to be before the end of the IDR/IDC review process which will be the end of May 2010	Note	
1.3	 (JRi) – Still no updates on the Hazard log. This was supposed to be Monthly. Post Meeting Note: – JRi received an email from John Riley (JRy)-19th February 2010. Email highlights: Work on the hazard log is well underway and a fair amount of work has already been referenced within. It is available for viewing anytime. The current program for the Hazard Log Manager is to ensure that all hazard log owners to have all evidence available for review by the end of March 2010. A 4-day review is planned for the 2nd/3rd weeks of April 2010. If the PSCC Sub-Committee are satisfied with the responses/reviews and hazards have been mitigated they will recommend that the hazards are closed for that phase of the project. Currently no hazards are closed. 	Note	
1.4	(JRi) enquired about the status of the as-built information. ICr noted that the as-built information is still ongoing. HPI to confirm as-built status	HP1	22-03-10
1.5	(JRi) enquired about the status of the asset register.		

	ICr – Email has been sent, still awaiting confirmation.		
	Post Meeting Update: email received from Eddie Inglis 09/03/10: - At the moment each of the lots is responsible for recording what assets if any have been put in place, we are still some way off having a full Asset/Maintenance management system in place. However I am working with both Sinaid & Alastair in trying to realise this sooner rather than later, please find attached the following documents which give assurance that the assets are being recorded, sorry for delay in reply but have been away on business over the last 2 weeks.	Note	
1.6	Planned inspections		
110	SSm – noted that this is with Siemens and JRi would go direct to Ineke Van-Klaveren (Siemens) – No BB input is required for this.	Note	
2.0	CarrickKnowe Underbridge		
2.1	(JRi) commented that there was no evidence of checks/certifications and would like to see progress.		1.5
	JRi to clarify.	JRi	22-03-10
2.2	(JRi) requested that an "IDR Tracker" be made available.		
	ICr – (Post meeting Update) IDR/IDC Action register forwarded to SSm and JRi 08 th March 2010.	Note	18
2.3	Planned Inspections		
	Aha – Inspections planned for 19/03/2010	Note	
3.0	Haymarket Viaduct Haymarket Viaduct - Grahams		
3.1	AHa –Paperwork complete. AHa- Site visit planned for the 12/03/2010 Earthing and bonding to be inspected.	Note Note	
4.0	Tower Place Bridge		-
P4.0			1
5.0	Section 7 Airport Earthworks		
5.1	SSm Asset Register- Still no evidence.	Note	
e 2	Same as Item 1.8 ongoing SSm – Inspections		
5.2	Aha – From the previous inspection, Farrans (19.02.10) were required to provide calibration certificates. Drawing discrepancies were also noted although JRi appeared to have been given a drawing list from SDS which did not match IFC drawings available on BIW.		
	JRi to confirm the source of the drawings he had received.	JRi	08-03-10
	Aha – to monitor and provide update.	AHa	22-03-10
6.0	Gogarburn Bridge		
6.1	Gogarburn Bridge – Structures		
	Aha – Planned Inspection (26.02.10) ready to go ahead.	Note	
	Aha – This inspection has been carried out. Aha to provide update	AHa	22-03-10

7.0	Depot		-
7.1	Depot	Note	
	SSm to issue an updated report. New inspection date to be confirmed.		
8.0	System Integration (Infraco Contract)		
3.1	System Integration (Infraco Contract)		25.774
	SSm – Draft has been issued and is available,	Note	
9.0	AOB		
9.1	(SSm) - Check-sheet		
	SSm – Rev 2.3 of the check-sheet is now available and will be orwarded via email. The only changes are to the wording which should help to close out a few outstanding issues.	Note	
10.0	Next Weeting		
	Monday 22 March 2010 10h00 Consortium Office	Note	
			-
		157	-
			7
			1

DELIVER A SAFE TRAM INSPECTION - CHECKLISTS



Site PIVI: Alistair Scott		tie	PM: Andy Scott	Inspector: Jim Ritchie
Section: Gogar Depot		Date	e: 14/05/2010	Period: 02 Week 03
Current Activity: ITP 05 Drainage	and Service	ce Ducts.	1	
Data to be Checked	Site/ Office	Evidence Available Y/N/P/NA	Data Sources	Evidence (Note evidence found)
	S/O	Υ	AFC drawing, available for current work?	No, but PAFC via Site Instructions: SI-0096.
Inter-Disciplinary Design Check	S/O	Υ	Evidence of IDR workshop - minutes of meeting, Bilfinger; Siemens and CAF Integration	IDR workshop minutes issued via e-mail, 04/03/2010. Reference: IDR/IDC Meeting Minutes RefDepot Ducting/Drainage Review, dated 13/01/2010. IDR/IDC Meeting Minutes RefNo. 005, dated 08/10/2009. IDR/IDC Meeting Minutes RefNo. 007, dated 05/11/2009. IDR/IDC Meeting Minutes RefNo. 013, dated 03/12/2009. IDR/IDC Meeting Minutes RefNo. 014, dated 10/12/2009.
	S/O	Υ	Initial design only - consortium review evident?	
Hazards	S/O	This will	ho longer be checked during weekly	Inspections (RYC 11/01/10)
	S/O ·	Υ	ITP in place for current works	ITP 005 Drainage is being collate
	S/O	Υ	Are there relevant RAMS and drawings in place to match up with the ITP?	by Barr with evidence of BSC review. ITP for service ducts will be
Inspection & Test Plan System.	S/O	1 3	Content of ITP adequate?	prepared on commencement of this phase of works.
	S/O	Y	Supplementary records being compiled i.e. concrete checks?	Drainage records are available fo Surface, Foul & Rain Water with sign off from Building control.
	S/O	Y	Evidence in place for any design changes?	Yes
	S/O	Υ	Are appropriate CVI's or TQ's in place giving permission to make these changes?	CVI's are in place such as: CVI-131.
Design Variation/Change	S/O	Y	Evidence these changes have been through the IDC/IDR process (office check)?	Drawings are updated and changes incorporated – office check through review process.
Design variation/Change	S/O	Y	Is there evidence that residual risk has been reviewed as a result of changes? If risk has increased, has an appropriate risk assessment been carried out?	Residual Risk Registers are updated on drawing. Appropriate Risk Assessments have been carried out and are incorporated WPP – 0059, WPP – 0094, WPP – 0109 & WPP – 0109 Addendum 001.



As Built Asset Register		S/0 Y		Evidence that As built are being produced as work progresses?	IFC Drawings updated with information received via the TQ	
		S/O	Y	Is the information being recorded? Is it adequate?	and CVI Process example of changes to IFC attached.	
		S/O N		Are new assets being logged on the asset register?	No Procedure to date tie to discuss with Eddie Ingles.	
		\$/0	N	Refer to site drawings to determine new assets		
Inspector 9	Summary,	construct	ed and lai It inspecti	isfied ties representatives that the dr d in line with the Design and ITP rec on: Arran Haynes BSC, Campbell St	quirements.	
Inspec	tion Summary	and Acc	eptance.			
Print: Jim Ritchie		Sign:	Date: 14.05/2010			



Site PW: Alistair Scott Section: Gogarburn Bridge			tie PM: Andy Scott	Inspector: Jim Ritchie	
			Date: 21/05/2010	Period: 02 Week 04	
Current Activity: ITP 015 St	ructural C	Concrete			
Data to be Checked	Site/ Office	Evidence Available Y/N/P/NA	Dafa Sources	Evidence (Note evidence found)	
	S/O	Y	AFC drawing, available for current work?	No, but PAFC via Site Instructions: SI-0008, SI-0080, SI-0091 & SI-0095.	
Inter-Disciplinary Design Check	SIO	Y	Evidence of IDR workshop - minutes of meeting, Bilfinger, Stemens and CAF integration	IDR workshop minutes issued via e-mail, 25/02/2010. Reference: IDC-Meeting No.006-Minutes - 29/10/09. IDC-Meeting No.009-010-Minutes - 12/11/09.	
	S/O	Y	Initial design only - consortium review evident?	IDC-Meeting No.013-Minutes - 03/12/09. IDC-Meeting No.014-Minutes - 10/12/09. IDC-Meeting No.021-Minutes - 09/02/10.	
Hazards	S/0	This will	no longer be checked during weekly inspec	ilons (RYC 11/01/10)	
	\$/0	Υ	ITP in place for current works	Evidence of ITP 015 with various versions up to Issue 07.	
	S/O	Y	Are there relevant RAMS and drawings in place to match up with the ITP?	Appendix 17/1 specification in linwith EN208 and BS8500.	
Inspection & Test Plan System	\$/0	Y	Content of ITP adequate?	TQ139 Responded to by SDS.	
	S/O	Υ	Supplementary records being compiled i.e. concrete checks?	Temp check in line with F79.5	
	S/O	Υ	Evidence in place for any design changes?	Yes	
	\$/0	Y	Are appropriate CVI's or TQ's in place giving permission to make these changes?	CVI's are in place such as: CVI- 126, CVI-125, CVI-117, CVI-133 CVI-149.	
Design Variation/Change	S/O	Y	Evidence these changes have been through the IDC/IDR process (office check)?	Drawings are updated and changes incorporated — office check through review process.	
	\$/0	Y	Is there evidence that residual risk has been reviewed as a result of changes? If risk has increased, has an appropriate risk assessment been carried out?	Residual Risk Registers are updated on drawing. Appropriate Risk Assessments have been carried out and are incorporated WPP -0068 + Addendum 1 to 7	
	S/O	Y	Evidence that As built are being produced as work progresses?	IFC Drawings are amended wit applicable TQ's and signed off, order that as built records can produced	
As Built	S/O	Υ	Is the information being recorded? Is it adequate?		
	S/O	Р	Are new assets being logged on the asset register?	No New asset installed to date. BSC have now prepared a	
Asset Register	S/0 P		Refer to site drawings to determine new assets	register for Ol.E poles and other various assets ready for tie acceptance and populating.	

Record; CR8232.5

Revision No.: 2/3
ELECTRONIC COPY - UNCONTROLLED IF PRINTED tie Ltd

Page 1 of 1



Inspector Sumr	Farrans the, package control Tram Project Interface Endominate safety relappropriate pedestrian v	ontractor, produce evidence of Director, Alistair Sim carried of ated issue found. AS stated wehlcle segregation on site.	QA/QC Senior Engineer Arran Is of ITP 015 and collation of as buout a Safety tour of the site durin that the site appeared to be well	ilt records. g this inspection. managed with
Inspe	ction Summary and Accept	ance		
Prepared By Inspector:	Priot: Jim Ritchie	Sign:	Date: 21/05/10	22.
Notes and ph	otos:			

Record: CR8232.5

NAME OF TAXABLE

Revision No.: 2/3
ELECTRONIC COPY - UNCONTROLLED IF PRINTED
tle Ltd

Page 2 of 1



Site PM: Brian Walker tie				PM: Tom Cotter	Inspector: Jim Ritchie	
Section: Russell Road			Dat	te: 28/05/2010	Period: 03 Week 01	
Current Activity:	ITP 015 Structura	al Concret	e. Fixing F	Pile Caps.		
Data to be 0		Site! Office	Evidence Available Y/N/P/NA	Data Sources	Evidence (Note evidence found)	
Inter-Disciplinary Design Check		S/O		AFC drawing, available for current work?	No, but PAFC via Site Instructions: SI- 0090.	
		S/O		Evidence of IDR workshop - minutes of meeting, Bilfinger, Siemens and CAF integration	IDR workshop minutes issued via e- mail, 25/05/2010. Reference: IDC-Meeting No.006-Minutes - 29/10/09.	
		S/O		Initial design only - consortium review evident?	L	
Hazar	ds	S/O	This will i	no longer be checked during weekly insp	ections (RYC 11/01/10)	
		\$/0		ITP in place for current we rks	Issue No 07 Available onsite and E- mails sent to all parties described in	
Inspection & Test Plan System	t Plan System	s/o	-	Are there relevant RAMS and crawings in place to match up with the ITP?	the witness process. Drawing on site latest rev available.	
		S/O		Content of ITP adequate?		
		S/O		Supplementary records being compiled i.e. concrete checks?		
.Design Variation/Change		S/O	1.	Evidence in place for any design changes?	Yes	
		S/O S/O		Are appropriate CVI's or TQ's in place giving permission to make these changes?	CVI's are in place such as: CVI-0126, CVI-0125, TQ1151 & TQ1306	
				Evidence these changes have been through the IDC/IDR process (office check)?	Drawings are updated and changes incorporated – office check through review process.	
				Is there evidence that residual risk has been reviewed as a result of changes? If risk has increased, has an appropriate risk assessment been carried out?	Residual Risk Registers are updated on drawing. Appropriate Risk Assessments have been carried out and are incorporated in WPP - 0011 8 WPP - 0080.	
As Built		S/O		Evidence that As built are being produced as work progresses?	As-built meeting held with EXPANDED on 19/04/2010. Records are being	
		S/O		Is the information being recorded? Is it adequate?	developed as works progresses.	
Asset Register		S/O		Are new assets being logged on the asset register?	No New asset installed to date. BSC have now prepared a register for	
		s/o		Refer to site drawings to determine new assets	OLE poles and other various assets ready for the acceptance and populating.	
Inspector S	Summary	Expanded Lindsay N	t the, packa Jurphy of the	as accompanied on site by BSC QA/QC s age contractor, produce evidence of ITP e accompanied during this inspection. y available for inspections and no issues	015 and collation of as built records.	
Inspec	tion Summary					
Prepared By Print: Jim Ritchie				Sign:	Date: 28/05/2010	

Record: CR8232.5

Revision No.; 2/3 ELEÇTRONIC COPY – UNCONTROLLED IT PRINTED tie Ltd

Page 1 of 1



Notes and photos:

