

ETN INFRACO NOTIFICATION OF THE CHANGE (INTC)
CONFIDENTIAL

Wendy/Superst/edho/col
Delay Only
Change Order Issued

Ref	Notes	Is Change Order TCO	Description	Date Notified	Date of further letters	Letter Ref	Agreed in principle	TNC?	Estimate Issued?	Change Order?	Type	Change Type	Pricing Method	Value Estimate (GBP)										Allocation of Cost	Section	Change Order Value					
														E Submitted													£ Agreed	£ Not Agreed	Psum or VE	Number	See Notes
														Sub-total	OH & P	Consumption	Other Items	Total	£	£	£	£	£								
226			Operational Design Review of Depot - changes arising	25/11/2008		200209 1140409 1001409 300709			U		U	1	1,2,3,4	U	U	U	U	U	U	U	U	U	N/A	6	U						
227			Operational Design Review of Haymarket - changes arising	25/11/2008		200209 310709			1		D	1	1,2,3,4	26,414	0	0	0	26,414	2,841	1,965	0	31,011	0	31,011	N/A	2	0				
228			Relocation of bus stop outside LOD at Princess Mall	01/12/08		251101 091208 120108 300108 030509 050509 230209 010409 160409 230409 240409 080509 080509 110409 040409 200709			1		I	1	4	5,000	0	0	0	5,000	506	374	0	5,941	0	5,941	N/A	1C	0				
229			Picardy Place design changes	01/12/08		010709 251108			U		M	1	1,2,3,4	U	U	U	U	U	U	U	U	U	U	N/A	1C	U					
230			F/C Drawing Changes - Lower bridge structure	11/12/08		050309 180309 100609 290609 280709 260809 280809 040909 240909 091009					M	1	1,2,3	0	476,668	0	0	476,668	35,273	83,417	0	595,358	-384,466	979,825	N/A	1A	0				
231			F/C Drawing Changes - Section 1 C drainage	12/12/08		130109 230109 160209 230209 050309 170409 170409 250409 040909 220909					M	1	1,2,3	0	0	0	0	0	0	0	0	0	0	0	N/A	1C	0				
232			F/C Drawing Changes - Section 1 C road design	12/12/08		130109 050309 170409					M	1	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	N/A	1C	0			
233			F/C Drawing Changes - Section 1 C lighting layout	12/12/08		130109 050309 170409					M	1	1,2,3	U	U	U	U	U	U	U	U	U	U	U	N/A	1C	U				
234		89	Leith Walk (Section 1B) Groundworks - Move THUS ducts fouling kerbline to new loading bay - Ch 345 - 365	17/11/2008		201108 010208 120208 190208 230108 260108 120209 230209 050309 160309 170409 050509 190509 120609 250609 110909 110909 170909 191009			1		I	1	4	0	4,864	0	0	4,864	486	360	651	6,562	6,562	0	VPS	2	1B	6,562			
235			Leith Walk (Section 1B) Groundworks - Move BF ducts fouling kerbline to new loading bay Ch 345 - 365	17/11/2008		201108 010208 120208 190208 230108 260108 120209 230209 050309 160309 170409 050509 190509 120609 250609 110909 110909 170909 191009			1		I	1	4	0	0	0	0	0	0	0	0	0	0	0	0	VPS	2	1B	0		
236			Options for drainage outfall consent at the Airport	16/09/08	04/12/08	150908 171108 261108 171008 250209 030309 230309 140409 160409					I	1	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	N/A	7	0			
237		10	Move site boundary fencing at Haymarket Car Park to facilitate transfer of rugby supporters on DB and 15/11/08	13/11/2008		101208 171208			1		I	1	4	0	791	0	0	791	0	69	138	938	690	138	VPS	1	2A	850			
238		67	Temporary Traffic Lights opposite Manderston Street required because MUF-A works are incomplete	12/12/08		120109 230109 300109 050209 120209 200209 310309 030409 080409 280809 040909					I	1	1	4	0	11,182	0	0	11,182	1,118	627	1,957	15,085	15,085	0	N/A	1B	15,085			
239		29	Additional Trial Hooks at CH745 - CH160 (Section 1B)	20/11/2008		091208			1		I	1	4	0	0	0	0	0	0	0	0	0	0	0	0	N/A	1B	0			

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														Sub-total	OH & P	Consentium Primes	Other Primes	Total	Sub-total	OH & P	Consentium Primes	Other Primes	Total										
254			F/C Drawing Changes- Section 1 C Track Vertical Alignment	12/12/2008		1201A09 0540A09 U/A44M 2004A09 1109A09 0510A09							1,2,3	U	U	U	U	U	U	U	U	U	U	U	N/A	1C	U						
254			F/C Drawing Changes- Section 1 C Traffic Management	12/12/2008		0540A09 2403A09 0204A09 U/A44M 2508A09 1409A09 2209A09			N/A					U	U	U	U	U	U	U	U	U	U	U	N/A	1C	U						
255			Removal by others of materials from central reserve on Pincus Street	12/12/2008		2503A09								1	3	0	0	0	0	0	0	0	0	0	0	0	N/A	1C,JD	0				
255			Additional Trial Holes at Lath Walk - Changes 145 to 160	09/12/2008		2503A09			N/A							0	0	0	0	0	0	0	0	0	0	N/A	1B	0					
257	26	44	Feasibility Study (Design Only) Forth Ports access to AC/M Milling	09/12/2008		021A09 121A09 121A09 121A09 121A09 2001A09 2901A09 0901A09 1002A09 1902A09 2702A09 0503A09 2303A09 U/A44M 0304A09 0804A09 1504A09 2004A09 2104A09 2904A09 0705A09 0305A09 U/A44M 2604A09 2505A09 2605A09			1	1	1	1	1	1	1,204	U	U	U	1,204	138	102	U	1,205	1,205	0	N/A	1A	1,205					
258	27		Accommodation Works Firths Proving on behalf of New Ingleton Limited and Highland Properties Limited (Scotland)	09/12/2008		121A09 121A09 3001A09 0402A09 2502A09 1903A09 2303A09 3003A09 0304A09 0804A09 2404A09 2904A09 0405A09 0505A09 0805A09 0605A09 0705A09 2205A09 2905A09 0106A09 1906A09 2606A09 1607A09 0508A09 2608A09 2008A09 3108A09 1709A09 1709A09			1	1	1	1	1	1	1,2,3	40,922	934,165	4,367	U	1,029,093	4,092	72,156	163,477	1,262,788	1,047,954	214,815	YPS	1	7	U			
259		72	Cycleway at Edinburgh Park Station repositioned outwith the LOD	12/12/2008		1105A09 0610A09 101A09 2010A09 2111A09 1512A09 3001A09 0603A09 2403A09 0304A09 1404A09 1604A09 2304A09 0405A09 0705A09 1305A09 1506A09 2206A09 1610A09										1	1	M	1	1,2,3	11387	59,968	U	41,824	1,137	31,591	6,263	59,243	52,095	6,748	N/A	5B	52,095
260	34	36	Relocate existing Control Box - Section 1B	12/12/2008		1201A09 2301A09 2301A09 1202A09 0503A09 2603A09 2703A09 0904A09 2904A09 0805A09 1305A09 1506A09 2206A09 1610A09			1	1	1	1	1	1	1	1,086	0	0	0	1,086	109	80	190	1,465	1,110	355	N/A	1B	1,110				
261			F/C Drawing Changes- Section 1B- Balour Street Tram Stop	12/12/2008		1610A09 0705A09								1	2,3	U	U	U	U	U	U	U	U	U	U	N/A	1B	U					
262			F/C Drawing Changes- Section 5B- Track Drainage	02/03/2009		1203A09 1504A09 1905A09 2707A09				1				1	2,3	0	1,153,260	0	0	1,153,260	ind	66,341	201,821	1,440,422	0	1,440,422	N/A	5B	0				
263			F/C Drawing Changes- Section 1A- Victoria Dock Bridge	16/12/2008		0503A09 1303A09 2703A09 0705A09 1006A09									1	2,3	0	0	0	0	0	0	0	0	0	0	N/A	1A	0				

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														Sub-total	OH & P	Consumption Materials	Other Items	Total	Sub-Total	OH & P	Consumption Materials	Other Items	Total								
264			F/C Drawing Changes- Earthworks General Arrangement- Section 1	07/05/2009		3109A9 1109A9 3009A9 1610A9			U		M	1	1,2,3	U	U	U	U	U	U	U	U	U	U	U	N/A		PA15/10/14	U			
265			Accommodation Works Section 2A-Access Retaining Wall- Verity House	18/12/2008		2302A9 1103A9 1703A9 0704A9 1404A9 2409A9 2909A9	1		1		M	4	1,2,3	0	68,016	0	0	0	68,016	0	4,293	10,153	72,462	18,039	54,423	VPS	2	0			
266		25	Undertakes Monthly Track Monitoring at Network vital Infrastructure on East Coast North Line in vicinity of Gogar Depot	16/11/2008		1912A9 1702A9 2602A9 2602A9 2702A9 0303A9 0503A9 0603A9 1103A9 2003A9 2904A9	1		1	T	I	1	3	0	3,960	0	0	3,960	398	295	697	5,369	4,673	697	N/A	6	4,673				
267			Carry out Scottish Water Diversion at Gogar Roundabout	18/12/2008		0501A9 0501A9 0901A9 0901A9 1401A9 2401A9 0502A9 0605A9 2005A9 2906A9 0408A9 1308A9 0109A9					M	1	3	0	75,738	0	0	75,738	7,574	5,605	13,254	102,170	39,537	62,633	VPS	50	0				
268			Carry out Scottish Power Diversion at Gogar Roundabout	18/12/2008		0501A9 0501A9 1201A9 1501A9 2001A9 2601A9 2901A9 3001A9 0602A9 0902A9 1902A9 2302A9 0405A9 0605A9 1605A9 2705A9 0304A9 0805A9 1805A9 1109A9 1409A9 1610A9	1		1		M	1	3	U	10,448	U	U	10,448	U	773	1,628	13,850	U	13,850	VPS	50	U				
269		20	Instructions arising from Trackroom Development Workshop	16/11/2008		0701A9 0701A9 2501A9 0602A9 1102A9 1302A9 1802A9 2702A9 2904A9 2904A9	1		1	I	1	1,2,3	316,063	0	0	0	316,063	31,606	23,389	0	371,058	371,058	0	N/A	A4	371,058					
270			RSS Tramstop - Provide an Estimate for diversion of LV Power and Water supplies crossing the train track	17/12/2008		0701A9 0901A9 0903A9 1302A9 1203A9 1703A9 0904A9 1604A9 1604A9 1804A9 2008A9 0109A9 2409A9 0210A9 0810A9	1		1	M	1	3	9,775	4,706	U	U	14,481	577	1,072	824	17,954	U	17,954	VPS	50	U					
271		19	Road Construction Details - Construction Methodology Statements for Establishing Ground Conditions Required depth of reconstruction	18/12/2008		0701A9 0701A9 2401A9 0602A9 1002A9 1002A9 1302A9 1902A9 2702A9 1903A9 2303A9 3103A9 2203A9 2404A9 1008A9 3108A9 1809A9 2909A9 1610A9	1		1	T	M	1	1,2,3	317,326	0	0	0	317,326	31,733	23,462	0	372,540	372,540	0	N/A	A4	372,540				
272		11	Create a starter layer below subsoil level at Carnknowe	18/12/2008		0901A9 2601A9 0602A9 1603A9 0304A9 0904A9 0904A9 0904A9 0904A9 1305A9	1		1	I	1	4	0	77,308	0	0	77,308	0	5,721	13,629	96,558	83,029	13,529	N/A	58	83,029					

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														Sub-total	OH & P	Consentium Primes	Other Primes	Total	Submitted	Agreed	Not Agreed	Prum or VE	Number								
224	35	65	Gegarium Retaining Wall W14 - Re-design to accommodate Water Mains and Gas Main	12/01/2009	15/01/09 26/01/09 12/02/09 19/02/09 25/02/09 11/03/09 17/03/09 27/03/09 01/04/09 02/04/09 04/04/09 08/04/09 14/04/09 04/05/09 07/05/09 08/05/09 11/05/09 15/05/09 07/07/09 11/09/09 14/09/09 15/09/09	ie INF CORR 598 25.1.201/MRH1240 25.1.201/MRH1260 ie INF CORR 731 25.1.201/MRH1971 SDS-ULE80130-07-LET-00390 ie INF CORR 948 25.1.201/MRH1967 INF CORR 1126 25.1.201/BOC2148 SDS-ULE80130-SW-LET-01492 25.1.201/MRH1214 25.1.201/MRH1213 25.1.201/MRH1220 ie INF CORR 1377/MB 25.1.201/MRH2573 ie INF CORR 1416/MP 25.1.201/MRH2589 25.1.201/MRH2659 ie INF CORR 1253/MP ie INF CORR 2348/SC 25.1.201/MRH10629 25.1.201/MRH10629	1	1	1	1	M	1	3	38U	88/2	U	U	1,042	38	///	U	1,357	1,357	U	N/A	7	1,357				
224		21	Princes Street Construction Works - closure to traffic during construction works.	12/01/2009	15/01/09 16/01/09 16/01/09 13/02/09 16/02/09 04/03/09 04/03/09 11/03/09 16/03/09 19/03/09 24/03/09 08/04/09 09/04/09 15/04/09 25/05/09	ie INF CORR 572 ETNBS01716-ABC-050302 25.1.201/MRH1292 25.1.201/MRH1293 ie INF CORR 758 25.1.201/IL1568 ie INF CORR 838 ie INF CORR 814 25.1.201/ADR1892 25.1.201/MRH1921 ie INF CORR 184 25.1.201/MRH2067 ie INF CORR 1183 ie INF CORR 1154 25.1.201/ADR2291 ie INF CORR 1699	1		1	1	I	1	3	U	5/5/6	U	U	5/5/6	ind	413	9/6	6385	6247	418	N/A	TC10	6247				
225			EAL Tramstop - BAA Interface	06/01/2009	16/01/09 19/01/09 20/01/09 01/04/09 14/04/09 14/05/09 22/05/09 26/05/09 14/06/09 17/06/09 26/08/09	ie INF CORR 658 25.1.201/MRH1294 25.1.201/MRH1297 SDS-ULE81130/1-LET-101867 25.1.201/MRH3095 25.1.201/BOC2148 ie INF CORR 1234/AS ie INF CORR 1344/AS 25.1.201/BOC2210 25.1.201/BOC2724 25.1.201/ADR3083 25.1.201/ADR3083 ie INF CORR 2170/AS	1		1		M	1	1,2,3	5,812	0	0	0	5,812	581	430	0	6,823	0	6,823	N/A	7	0				
226			Site Design changes in the area between Haymarket and Newhaven	09/01/2009	23/01/09 05/03/09 12/03/09 15/03/09	ie INF CORR 658 SDS-ULE81130-SW-LET-01410 ETNRELE176-RS1676-ABC-050338 ie INF CORR 22 ie INF CORR 1050			N/A		D	1	1	0	0	0	0	0	0	0	0	0	0	0	N/A	1,2	0				
227	38		Airport Tramstop Capacity in options.	20/01/2009	27/01/09 26/01/09 25/02/09 01/04/09 14/04/09 14/05/09 20/04/09 04/05/09 18/05/09	ie INF CORR 619 25.1.201/MRH1405 25.1.201/MRH1417 SDS-ULE80130-07-LET-00390 25.1.201/BAJ2149 SDS-ULE80130-SW-LET-01494 ie INF CORR 1234/AS 25.1.201/MRH2335 ie INF CORR 1378/DS 25.1.201/MRH2649	1	1	1		M	4	1,2,3	42,954	0	0	0	42,954	4,295	3,179	0	50,428	0	50,428	N/A	7	0				
228			Wider Area Modeling Proposals	27/01/2009	31/08/09 23/09/09 16/10/09	25.1.201/ADR8400 SDS-ULE80130-SW-LET-1208 25.1.201/MRH1407 ie INF CORR 2407/MB			0		D	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
229		84	West Hixon Tram stop	20/01/2009	29/01/09 12/02/09 27/02/09 13/03/09 18/03/09 23/03/09 25/03/09 26/03/09 30/04/09 06/05/09 23/06/09 26/06/09 29/07/09 31/07/09	25.1.201/MRH1426 ie INF CORR 738 SDS-ULE80130-05-LET-00370 25.1.201/BOC1931 SDS-ULE80130-03-LET-00270 SDS-ULE80130-SW-LET-01471 25.1.201/BOC2072 25.1.201/MRH2091 ie INF CORR 1362/DS 25.1.201/MRH2640 SDS-ULE80130-SW-LET-0176/1 25.1.201/MRH2948 ie INF CORR 1873/DC 25.1.201/BOC21692	1		1	1	D	1	3	732	0	0	0	732	73	64	0	869	869	0	0	N/A	3	0			
230			Change to demarcation requirements	26/01/09	19/02/09	19/01/09 19/02/09 26/02/09 03/03/09 10/03/09 18/03/09 18/03/09 23/03/09 24/03/09 14/04/09 29/04/09 01/05/09 26/04/09	25.1.201/BOC1421 ie INF CORR 572 25.1.201/MRH1879 25.1.201/MRH1881 SDS-ULE80130-SW-LET-01395 ie INF CORR 804 25.1.201/BAJ2149 ie INF CORR 889 25.1.201/MRH1971 SDS-ULE80130-SW-LET-01464 ULE80130-1-LET-00892 25.1.201/MRH2047 25.1.201/MRH2271 SDS-ULE80130-1-LET-01005 ie INF CORR 1866/DS ie INF CORR 1862/DS	1			D	1	1	22,897	0	0	0	22,897	2,290	1,694	0	26,881	0	26,881	N/A	A4	0				
231			Revised proposals for U-shedded Lane Sub-station	22/01/2009	27/01/09 28/01/09 03/03/09 06/03/09 12/03/09 12/03/09 18/03/09 19/03/09 08/04/09 14/04/09 21/04/09 23/04/09 23/04/09 19/05/09 22/07/09 31/07/09 04/08/09 28/08/09 03/09/09 09/10/09	ie INF CORR 626 25.1.201/MRH1404 SDS-ULE80130-1-LET-00827 ie INF CORR 803 SDS-ULE80130-1-LET-00960 25.1.201/MRH1906 ie INF CORR 876 25.1.201/MRH1972 25.1.201/BOC1975 ie INF CORR 1244/MB ie INF CORR 1269/DS SDS-ULE80130-1-LET-103586 25.1.201/MRH2300 25.1.201/MRH2371 25.1.201/MRH2381 ie INF CORR 1892/RB 25.1.201/MRH2411 ie INF CORR 1885/DS 25.1.201/MRH2505 ie INF CORR 2166/DS 25.1.201/MRH2419 25.1.201/IL3862	1		0		I	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	1C	0		

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														Sub-total	OH & P	Consentium Primes	Other Primes	Total	Sub-total	OH & P	Consentium Primes	Other Primes	Total									
282			Request for instruction to deal with Japanese Knotweed at rear of First Scot at Haymarket Depot - Retaining Wall W4	28/01/2009		1/03/09 08/04/09 12/04/09 13/06/09			1		M	1	3.4	U	18,101	U	U	U	U	18,101	1,800	1,352	3,750	24,283	U	24,283	N/A	2	U			
283			Edinburgh Park Bridge (S2) - Pier 3 Base Formation	28/01/2009		12/02/09 12/03/09 17/03/09 04/06/09			1		M	1	3.4	U	7,914	0	0	0	7,914	791	586	1,385	10,676	0	10,676	N/A	5B	0				
284			Russell Road Retaining Wall 4 - Options Report	30/01/2009		12/05/09			U		M	1	3.4	U	U	U	U	U	U	U	U	U	U	U	U	U	U	N/A	5A	U		
285			Notified Departure due to the issue of SJS Design programme (AU)	03/02/2009		02/02/09 12/03/09 17/03/09 06/07/09			N/A		M	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	A4	0		
286			Princes Street Construction Works - Change to specification - full depth reconstruction	06/02/2009	02/02/2009	06/02/09			1		M	1	1.23	U	8,158	U	U	U	U	8,158	816	804	0	9,778	U	9,778	N/A	1A	U			
287			Forth Paths Traffic Signal - Section 1A4 - Widened Crossing required	06/02/2009	02/02/2009	06/02/09			1		M	1	1.23	U	8,158	U	U	U	U	8,158	816	804	0	9,778	U	9,778	N/A	1A	U			
288		19	Deviation Road Rail vehicle payload	03/02/2009		26/11/08 23/01/09			1		I	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	A4	0		
289			Cycleway change at Hawthornvale - Section 1A4	09/02/2009		26/01/09 09/02/09 10/02/09 14/04/09 17/03/09 20/07/09 20/09/09 11/09/09 19/10/09 22/10/09			1		D	1	1	35,388	0	0	0	0	35,388	3540	2,819	0	41,557	0	41,557	N/A	1A	0				
290			CAF - Air Supply	06/02/2009		06/02/09			0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
291			CAF - Limes System	06/02/2009		06/02/09			0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
292			Additional Ramp / Steps at Lindsay Road Retaining Wall - Section 1A4	06/02/2009		09/02/09 10/02/09 12/03/09 17/03/09 19/03/09 23/03/09 30/03/09 06/05/09 17/06/09 19/06/09			1		0		M	1	1.23	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	1A	0	
293		37	Gogar Castle Road tree felling	09/02/2009		17/02/09 24/04/09 31/03/09 05/04/09 17/04/09 29/04/09 09/05/09			1		1		M	1	3.4	0	990	0	0	990	99	73	173	1,336	1,162	173	1,162	N/A	7A	1,162		
294		38	Reinstale access ramp at Gogar Depot	09/02/2009		06/03/09 11/03/09 18/03/09 30/03/09 08/04/09 29/04/09			1		1		M	1	4	7,345	U	U	U	7,345	ind	581	1,213	3,759	824	1,252	N/A	7A	824			
295		30	Carry out works to protect existing SGN gas main at Culven 2	09/02/2009		09/02/09 11/03/09 17/03/09 23/03/09 29/04/09			1		1		M	1	3.4	0	13,182	0	0	13,182	ind	941	2,307	16,430	14,123	2,307	VPB	7A	14,123			
296		38	Formation Level of Gogarburg Bridge West Abutment	11/02/2009		12/02/09 05/03/09 12/03/09 17/03/09 24/03/09 27/04/09 29/04/09			1		1		M	1	3.4	0	10,761	0	0	10,761	0	796	1,883	13,440	11,557	1,883	N/A	7A	11,557			
297		40	Formation Level of Gogarburg Bridge East Abutment	11/02/2009		12/02/09 05/03/09 12/03/09 13/03/09 17/03/09 27/04/09 29/04/09			1		1		M	1	3.4	0	6,778	0	0	6,778	0	502	1,186	8,466	7,280	1,186	N/A	7A	7,280			
298			Revised access arrangements to Depot	15/02/2009		06/03/09 16/03/09 07/04/09 29/04/09 01/05/09 11/05/09			N/A		M	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	7A	0		
299			FC Drawing changes - Edinburgh Park Bridge (Piers, bearings)	15/02/2009		06/03/09 16/03/09 07/04/09 29/04/09 01/05/09 11/05/09			1		M	1	1.23	0	81	0	0	0	81	9	7	16	123	0	123	N/A	5B	0				
300			Network Rails requirement for CAT 3 checking	10/02/2009		16/02/09 26/03/09 26/03/09 09/04/09 09/04/09 09/05/09 09/06/09 27/06/09			0		D	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	A4	0			
301			Develop and seek approval for enabling works for diver access route from Princes Street to George Street/Queen Street	26/01/2009		11/02/09 26/02/09 11/03/09 12/03/09 16/03/09 09/04/09 16/04/09 19/04/09 30/04/09 07/05/09 20/06/09			1		I	1	3	0	109,642	0	0	109,642	10,964	8,114	19,187	147,908	120,267	27,651	N/A	10	0					

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ETN INFRACO NOTIFICATION OF the CHANGE (INTC)
CONFIDENTIAL

Workshop/Suspected/edho cost
Delay Only
Change Order Issued

Ref	Intc No	Is Change Order TOO	Description	Date Notified	Date of further letters	Letter Ref	Agreed in principle	TNC?	Estimate Issued?	Change Order?	Type	Change Type	Pricing Method	Value Estimate (GBP)										Allocation of Cost	Section	Change Order Value					
														E Submitted													E Agreed	E Not Agreed	Prum or VE	Number	See Notes
														Sub-total	OH & P	Consumption Primes	Other Primes	Total	£	£	£	£	£								
221	39		Revised alignment to Picardy Place, York Place and London Road Junctions	23/02/2009	13/02/2009	lie INF CORR 757 25.1.201/ALTR81 lie INF CORR 1055 25.1.201/HE2317 lie INF CORR 1289PD 23/02/09 lie INF CORR 1073 08/04/09 lie INF CORR 1184 30/04/09 lie INF CORR 1367/G 10/07/09 SOS-ULEB130-SW-LET-01608 30/07/09 SOS-ULEB130-SW-LET-01643 31/07/09 25.1.201/042190 12/10/09 25.1.201/0469999 01/11/09 lie INF CORR 2617/DS 08/11/09 SOS-ULEB130-SW-LET-11/11/04 22/10/09 25.1.201/043962	1	1	1	M	1	3.4	254,081	0	0	0	254,081	25,408	18,802	0	298,291	0	298,291	DPS	5	1C	0				
222			Carnick Knowe Underbridge Obstructions	23/02/2009	09/04/09 12/06/09	25.1.201/SC0793 lie INF CORR 1081/MB 25.1.201/CF273		1		M	1	3.4	0	2,035	0	0	2,035	203	151	366	2,745	0	2,745	N/A	5B	0					
224			A8 Underpass Phase 1 Pile Toe Levels	23/02/2009	23/03/09 14/04/09 21/04/09 14/04/09 06/04/09 21/07/09 19/04/09	25.1.201/SC0797 25.1.201/GR944 lie INF CORR 1238/AS 25.1.201/042685 lie INF CORR 1528/SMG3 25.1.201/042682 lie INF CORR 1828/CMG lie INF CORR 752	1		M	1	3.4	27,477	0	0	27,477	0	2,035	4,809	34,319	0	34,319	N/A	5C	0							
224			A8 Underpass Phase 1 Piling Obstructions	23/02/2009	19/03/09 25/03/09 09/04/09 03/04/09 14/04/09 01/04/09 14/04/09 25/03/09	25.1.201/SC0710 lie INF CORR 1251 25.1.201/CH892074 25.1.201/SC2221 lie INF CORR 1225/AS 25.1.201/042051 lie INF CORR 1383/CS 25.1.201/0376182 lie INF CORR 2168/AS	1	1	1	M	1	3.4	3,440	0	0	3,440	342	253	589	4,314	4,015	369	N/A	5C	4,015						
225			Advertisement Consents	24/02/2009	27/02/09 05/03/09 03/04/09 05/04/09 05/05/09 17/04/09 21/07/09 22/07/09 25/03/09 09/10/09 05/10/09 08/10/09	25.1.201/GR9175 lie INF CORR 757 25.1.201/BOC1800 lie INF CORR 1170 25.1.201/042222 lie INF CORR 1378/DS SOS-ULEB130-SW-LET-01542 25.1.201/042616 lie INF CORR 1616/DS 25.1.201/042105 lie INF CORR 2415/DS 25.1.201/BOC2863 25.1.201/BOC2684 SOS-ULEB130-SW-LET-01760			N/A	U	1	1	0	0	0	0	0	0	0	0	0	0	0	N/A	A	0					
226			Expose existing gully connections at Charnage 272-326 RHS	24/02/2009	09/04/09 08/04/09 01/04/09 12/06/09	25.1.201/SC0711 lie INF CORR 1232/CS 25.1.201/042611/2511 25.1.201/042620 lie INF CORR 1263/CS 25.1.201/042611/2548			1		M	1	4	0	2,746	0	0	2,746	275	203	481	3,026	0	3,026	VPS	1B	0				
227		41	Dye test and camera survey at Charnage 170 RHS	24/02/2009	04/03/09 27/03/09 09/04/09 09/04/09 29/04/09 05/05/09 12/05/09	25.1.201/DM/PE/01/1753 INF CORR 1128 25.1.201/SC2228 lie INF CORR 1203/CS lie INF CORR 1389/MP 25.1.201/042611/2511 25.1.201/042628	1	1	1	M	1	3.4	0	545	0	0	545	55	40	95	735	619	116	N/A	1B	619					
228		42	Reinstale disabled footway following MJURA works	24/02/2009	04/03/09 06/03/09 16/03/09 27/03/09 09/04/09 23/04/09 09/05/09 12/05/09	25.1.201/SC0716 25.1.201/042611/1754 lie INF CORR 877 25.1.201/042611/1941 INF CORR 1128 25.1.201/SC2229 lie INF CORR 1389/MP lie INF CORR 1430/AS 25.1.201/042628	1	1	1	M	1	3.4	0	1,099	0	0	1,099	110	81	192	1,482	1,207	276	N/A	1B	1,207					
229			break out toamed concrete backfill	24/02/2009	08/04/09 17/04/09 09/05/09 11/05/09 17/07/09 25/03/09	25.1.201/042611 lie INF CORR 1430/CS 25.1.201/DM/PE/01/1756 lie INF CORR 1389/CS 25.1.201/SC2590 25.1.201/SC2087 lie INF CORR 2419/CS		1		M	1	3.4	0	5,431	0	0	5,431	543	402	950	7,206	0	7,206	VPS	1B	0					
231		43	install additional gully Charnage 250 RHS	24/02/2009	06/03/09 17/04/09 08/05/09	25.1.201/SC0718 lie INF CORR 875 25.1.201/042611/2282 lie INF CORR 1389/CS	1	1	1	M	1	3.4	0	1,738	0	0	1,738	0	129	304	2,171	1,386	304	N/A	1B	1,386					
231			Partial Handover of Depot Site		06/01/09 20/01/09 03/02/09 16/02/09 25/02/09 27/02/09 27/02/09 06/05/09 02/04/09 25/05/09	25.1.201/CH891241 lie INF CORR 804 lie INF CORR 869 25.1.201/CH891603 25.1.201/CH891732 lie INF CORR 752 lie INF CORR 801 25.1.201/AG2543 25.1.201/SC2612 lie INF CORR 1142 25.1.201/042611			N/A	D	1	3.4	0	0	0	0	0	0	0	0	0	0	0	N/A	6	0					
232			Change to route of footpath/cycleway adjacent to A8 and Gosburn tram stop	15/08/2009	28/08/09	25.1.201/SC2863 lie INF CORR 2164/CMG			0		M	1	1.2,3	0	0	0	0	0	0	0	0	0	0	N/A	7	0					
233			Investigate stability of and reinstate existing built-up north of Segar Depot	25/02/2009	25/02/09 09/04/09 05/05/09	25.1.201/042611 25.1.201/042611/736 lie INF CORR 1226/AS lie INF CORR 1528/CMG 25.1.201/SC2614			N/A	D	1	1.2,3,4	0	0	0	0	0	0	0	0	0	0	N/A	6	0						
234		94	Access at New Ingleton	26/02/2009	14/04/09 21/04/09 28/04/09 21/05/09 20/08/09 16/09/09	25.1.201/SC0747 25.1.201/042611/2247 lie INF CORR 1289/AS 25.1.201/042611/2248 lie INF CORR 1480/CMG lie INF CORR 2001/CS lie INF CORR 752	1	1	1	D	1	3.4	0	4,463	0	0	4,463	228	332	785	5,028	5,028	0	N/A	7	5,028					
235			F/C Drawing Changes - Track Drainage Section 5C	27/02/2009	02/06/2009	25.1.201/042611 lie INF CORR 1533/MP lie INF CORR 1533/MP lie INF CORR 1533/MP lie INF CORR 2289/CS	1		M	1	1.2,3	0	952,169	0	0	952,169	incl	70,461	166,630	1,189,269	0	1,189,269	N/A	5C	0						
235		60	Extension to Site Office for lie/GDS personnel	02/06/2009	11/05/09 17/04/09 21/04/09	25.1.201/042611 lie INF CORR 1533/MP lie INF CORR 2289/CS	1	1	1	1	1	3	0	150,000	0	0	150,000	0	0	0	150,000	150,000	0	N/A	A	150,000					
237		99	Testing to carriageway at Leth Walk	03/02/2009	12/03/09 19/03/09 11/05/09 04/09/09	25.1.201/042611 lie INF CORR 865 25.1.201/SC2025 25.1.201/DM/PE/01/2512 lie INF CORR 2289/CS	1	1	1	1	1	1.2,3,4	0	11,455	0	0	11,455	1,145	848	2,005	15,452	15,452	0	N/A	1B	15,452					
238		57	Remove ornamental iron balls from Gosbail Depot	03/02/2009	12/03/09 05/05/09 03/06/09	25.1.201/SC0717 lie INF CORR 864 25.1.201/042611/2302 lie INF CORR 1533/MP	1	1	1	1	1	1.2,3,4	0	412	0	0	412	41	30	72	556	486	149	N/A	1B	486					
239			Remove spot from Gosbail Depot	03/02/2009	19/03/09 01/04/09	25.1.201/SC2177 lie INF CORR 1029 25.1.201/SC2153			N/A	U	1	1.2,3,4	0	0	0	0	0	0	0	0	0	0	N/A	1B	0						

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ETN INFRA CO NOTIFICATION OF the CHANGE (INTC) CONFIDENTIAL

Withdrawn/Superseded/this cost Delay Only Change Order issued

Table with columns: Ref, No, No Change Order TOO, Description, Date Notified, Date of further letters, Letter Ref, Agreed in principle, TNC?, Estimate issued?, Change Order?, Type, Change Type, Pricing Method, Value Estimate (GBP), Allocation of Cost, Section, Change Order Value. Rows include items like Edinburgh Park Bridge South Abutment Base, Princes Street - Reinforced Concrete slab above Track Box, Transfer of private utility diversions from MUCFA at Edinburgh Park, Street Lighting - Height of poles, Disposal of surplus excavated material at Depot, MUCFA use of Hippo Wheel Wash, Edinburgh Park bridge Structural Fill, Traffic Flow and re-modelling at Lothian Road Junction, Additional Signs on Queen Street, Traffic Management contingency for Emergency Utility Works, Protected Species mitigation measures, Renovation of One Way System on Horse Street, Off-peak Taxi Rank at George Street, Additional Measures at George Street, Provide Cones signs and double yellow lines on George Street, Additional Signage at George Street/St Andrews square, Replace MASS barriers at George Street, Hanover Street and Frederick Street, Trial Holes in Princes Street, Incomplete MUCFA Works at the Princes Street/Mound Junction, Haymarket Junction- Underground Chamber at Clifton Terrace, Alteration of Design at Forth Ports Road, Scottish Power Utility diversion near Murrayfield Station.

CEC00775849_0191

ETN INFRACO NOTIFICATION OF the CHANGE (INTC) CONFIDENTIAL

Without Superceded or the cost Delay Only Change Order Issued

Main data table with columns: Ref No, File Change Order TCO, Description, Date Notified, Date of further letters, Letter Ref, Agreed in principle, TNC?, Estimate issued?, Change Order?, Type, Change Type, Pricing Method, Value Estimate (GBP) [Sub-total, Other Items, Total], Allocation of Cost, Section, Change Order Value.

CEC00775849_0192

ETN INFRA CO NOTIFICATION OF the CHANGE (INTC)
CONFIDENTIAL

Withhold/Supercede this cost
Delay Only
Change Order Issued

Ref	No.	No Change Order TOO	Description	Date Notified	Date of further letters	Letter Ref	Agreed in principle	TNC?	Estimate known?	Change Order?	Type	Change Type	Pricing Method	Value Estimate (GBP)										Allocation of Cost	Section	Change Order Value					
														E Submitted													E Agreed	E Not Agreed	Prum or VE	Number	See Notes
														Sub-total	OH & P	Consentium Primes	Other Primes	Total	Sub-total	OH & P	Consentium Primes	Other Primes	Total								
392			Section 10 - Bus Gate at Shandwick Place	24/04/2009	24/04/09	25.1.201/GC2383			1		D	1	3.4	0	2,619	0	0	2,619	262	186	441	3,386	0	3,386	N/A	10	0				
393			Section 10/10 - Princes Street Rhino Barrier	24/04/2009	27/05/09	25.1.201/GC2394			0		D	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	N/A	10,10	0			
394			Section 10/10 - Salam Stairs at George Street and Frederick Street	24/04/2009	24/04/09	25.1.201/GC2395			1		U	1	3.4	0	45	0	0	45	4	3	0	50	0	50	N/A	10,10	0				
395		62	Section 10/10 - Additional MASS barriers on Great Shunt Street	24/04/2009	26/05/09	25.1.201/GC2721			1		D	1	3.4	0	678	0	0	678	68	60	119	915	915	0	915	N/A	10,10	915			
396			Section 10/10 - Additional Traffic Management at Princes Street	24/04/2009	27/05/09	25.1.201/GC2397			1		U	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	10,10	0		
397			Section 10 - Bus Stairs at St Andrew Square	24/04/2009	02/06/09	25.1.201/GC2398			N/A		U	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	10	0		
398			Section 10 - VMS Signs on Princes Street Contingency Route	24/04/2009	27/05/09	25.1.201/GC2399			1		D	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	10	0		
399			Section 10/10 - Production of As-Built Drawing for Princes Street Diversion	24/04/2009	27/05/09	25.1.201/GC2390			0		D	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	10,10	0		
400		63	Carriek Knowe change 500000 to 520040 - sub-grade improvement	07/05/2009	16/05/09	25.1.201/GC2449			1		T	M	1	1.2	0	79,384	0	0	79,384	0	5,256	13,201	98,241	94,010	13,201	N/A	58	94,010			
401			Access to Leith Walk from 131/132	28/04/2009	22/05/09	25.1.201/GC2429			0		D	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	18,10	0		
402		64	Pier 1 Base Foundation - Section 5B	27/04/2009	30/04/09	25.1.201/MRH2490			1		T	M	1	1.2	0	450	0	0	450	0	35	79	561	561	0	561	N/A	58	561		
403			Edinburgh Park Station bridge - Approach ramp sub-grade	28/04/2009	18/05/09	25.1.201/GC2450			N/A		M	1	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	58	0		
404			Notified Departure due to the issue of SDS Design programme v41	28/04/2009	10/07/09	25.1.201/GC2461			N/A		M	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	58	0		
405			Notified Departure due to the issue of SDS Design programme v42	28/04/2009	10/07/09	25.1.201/GC2462			N/A		M	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	58	0		
406			Notified Departure due to the issue of SDS Design programme v43	28/04/2009	10/07/09	25.1.201/GC2463			N/A		M	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	58	0		
407			F/C Changes - Series 600 Earthworks Specification	29/04/2009	29/05/09	25.1.201/GC2464			0		M	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	58	0		
407a			Appendix B12 - Instrumentation and monitoring - Geog Landfill	29/04/2009	31/08/09	25.1.201/GC2465			0		M	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	58	0		
407b			Appendix B13 - Ground Improvement - Geog Landfill	29/04/2009	18/05/09	25.1.201/GC2466			0		M	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	58	0		
408			F/C Changes - Series 1700 Structural Concrete Specification	29/04/2009	31/08/09	25.1.201/GC2468			0		M	1	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	58	0		
409			Addition of starter and capping layers in Section 7A	20/05/2009	19/05/09	25.1.201/GC2876			1		M	1	1.2	0	1,322,010	0	0	1,322,010	ind	97,829	231,362	1,651,190	618,411	1,032,778	0	N/A	58	0			
410			Cycle provision at Haymarket Steps	28/04/2009	29/05/09	25.1.201/GC2440			0		M	1	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	2	0		
411		92	Additional earthworks to western approach embankment at Cogartham Bridge	18/07/2009	13/08/09	25.1.201/GC2473			1		I	1	1.2	0	29,316	0	0	29,316	ind	2,163	5,130	36,616	36,616	0	0	N/A	7A	36,616			
412			Addition of starter and capping layers in section 5d	28/04/2009	04/06/09	25.1.201/GC2474			1		M	1	1.2	0	1,382,367	0	0	1,382,367	ind	102,340	242,019	1,727,325	804,896	922,429	0	N/A	58	0			

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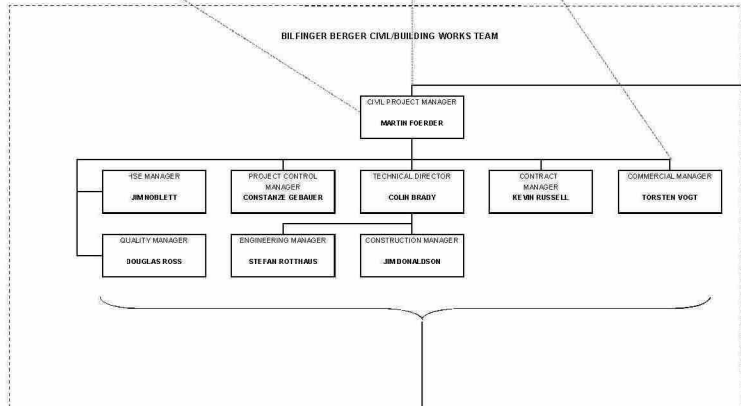
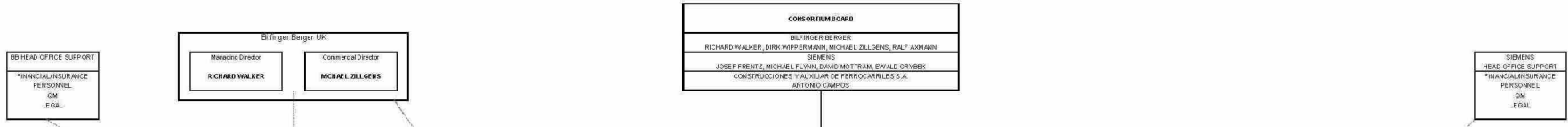
Ref		Reqs	to Change Order TOC	Description	Date Notified	Date of further letters	Letter Ref	Agreed in principle	TNC?	Estimate issued?	Change Order?	Type	Change Type	Pricing Method	Value Estimate (GBP)										Allocation of Cost		Section	Change Order Value				
															E Submitted										E Agreed		E Not Agreed		Pain or VE		See Notes	
															Sub-total	OH & P	Consentium Primes	Other Primes	Total	E Agreed	E Not Agreed	Prism or VE	Number	See Notes								
484	b/			Changes to sub-stations arising from development workshops	15/09/09	07/09/09	the INF CORR 2269/DC 25.1.01/IL/98/1 25.1.01/IL/98/5		1	0		I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		4	0	
484	72			Work 1 - Excavation below formation level	16/09/09	06/10/09	25.1.01/IL/98/13		1	0		I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		7	0	
485				Manderston Street operational track cross over	21/09/09	17/09/09	the INF CORR 2267/EM/6 ETN(BSC)SDS&CC&AB&C#053720 ETN(BSC)TR&C&AB&C#053721					I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		18	0	
486		105		TRO Changes September 2009	23/09/09 26/09/09 26/09/09 12/10/09	21/09/09	SDSULE0130-SW-LET-01125 25.1.01/BOC/5665 the INF CORR 2450/SJ 25.1.01/IL/98/17 25.1.01/IL/98/19	1		1	1	I	I	1,2,3	2,922	0	0	0	2,922	292	216	0	3,430	3,430	-0	N/A		4		3,430		
487	70			Signal Depot South embankment reinstatement and water supplies	16/09/09		the INF CORR 2271/10	1	1	0		I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		5C	0	
488				Development workshop for drainage - changes arising	26/09/09	26/09/09 14/10/09	25.1.01/IL/98/13 25.1.01/IL/98/14 25.1.01/IL/98/24			0		I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		4	0	
489				Plans distributions encountered at qualified busways	26/09/09		25.1.01/IL/98/30			0		M	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		5B	0	
491				Testing to carriageway at Leith Walk	23/10/09		25.1.01/IL/98/37			1		M	I	1,2,3	0	144,306	0	0	144,306	14,431	10,879	25,253	194,889	0	194,889	0	0	18	0			
491	69			Diversion of cables at Lower Place bridge	25/09/09	02/10/09 02/10/09 13/10/09	the INF CORR 2466/RS 25.1.01/IL/98/8 25.1.01/IL/98/7 the INF CORR 2616/ME	1	1	0		I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	VPS	2	1A	0	
492				Haymarket Car Park																												
493				Base Data Design to be issued for Construction Drawings - Mansfield Station Tram Stop	05/10/09		25.1.01/IL/98/80			0		M	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		5A	0	
494				RESERVED FOR LITTLE																												
495				RESERVED FOR LITTLE																												
496				RESERVED FOR LITTLE																												
497				Princes street arches	14/10/09	08/10/09 14/10/09	SDSULE0130-SW-LET-01148 25.1.01/IL/98/77 25.1.01/IL/98/79					M	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		10/1U	0	
498				Renforced Rheda Track																												
499				Frederick Street pedestrian crossing	09/10/09 16/10/09		SDSULE0130-LET-01016 25.1.01/IL/98/15					I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		1C	0	
500	75			Picardy Place - redesign north side to incorporate a fourth lane eastbound	14/10/09	16/10/09 22/10/09	the INF CORR 2620/DC 25.1.01/IL/98/16 25.1.01/IL/98/5	1	1	0		I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A		1C	0	
501	74			RBS Tramstop - Provide Future Proofing	14/10/09	16/10/09 23/10/09	the INF CORR 2621/AD 25.1.01/IL/98/16 25.1.01/IL/98/7	1	1	0		I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	0	VPS	9	7	0	
504				Additional excavation at Carrick Knowe North Abutment	19/10/09		25.1.01/IL/98/52			0		I	I	1,2,3	0	0	0	0	0	0	0	0	0	0	0	0	N/A		5B	0		
504				Track side signage																												
															2,957,345	44,786,522	12,038,863	863,221	80,625,401	872,808	5,659,342	8,857,847	71,775,198	16,759,842	54,861,356				7,861,356			

Part Items (6/0)

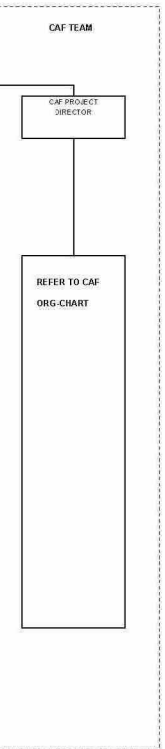
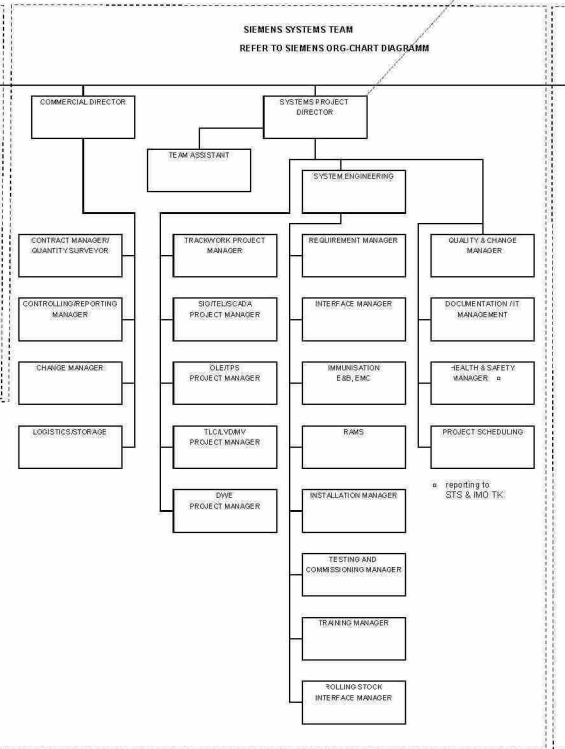
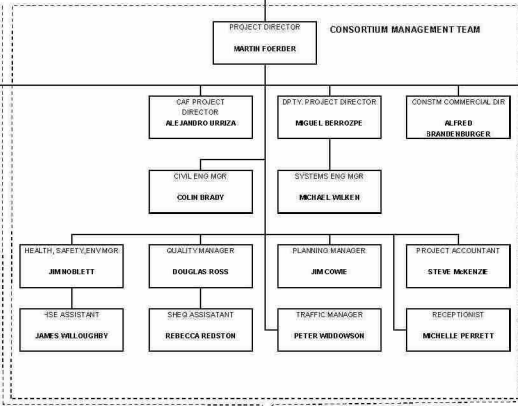
- Notes**
- Type: U = Notified Departure Deemed to Change; M = Notified Departure Mandatory to Change; I = No Instruction
 - Change type: 1 = No Change; 2 = Infra Change; 3 = Small Works Change; 4 = Accommodation Works Change; 5 = Qualifying Change in Law; 6 = Network Expansion; 7 = Labour & Landfill Tax Fluctuations
 - Pricing: 1 = Schedule of Rates; 2 = Derived Rates; 3 = Fair Rates and Prices; 4 = Actual Cost; Or any combination
 - Allocation of Cost: DPS = Defined Provisional Sum; VPS = Undefined Provisional Sum; VE = Value Engineering; FVE = Further Value Engineering; N/A = None of the above

CEC00775849_0198

10.8 Organisation Charts



REFER TO CIVIL WORKS TEAM ORGANISATION DIAGRAM

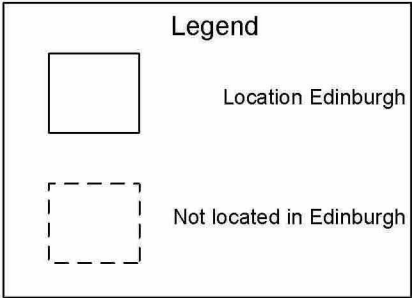
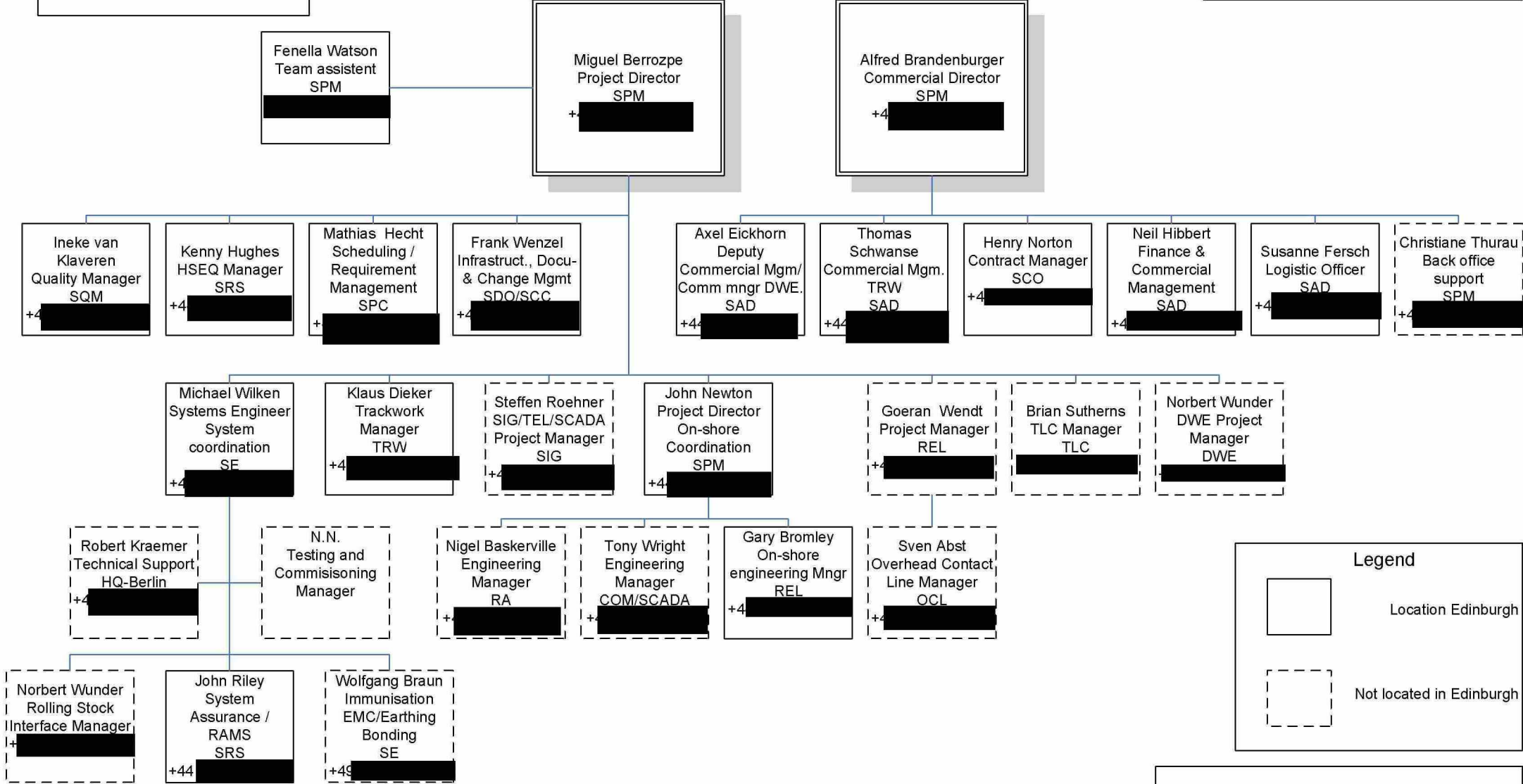


EDINBURGH TRAM NETWORK
INFRACO ORGANISATION CHART
 REV22 01/11/2009

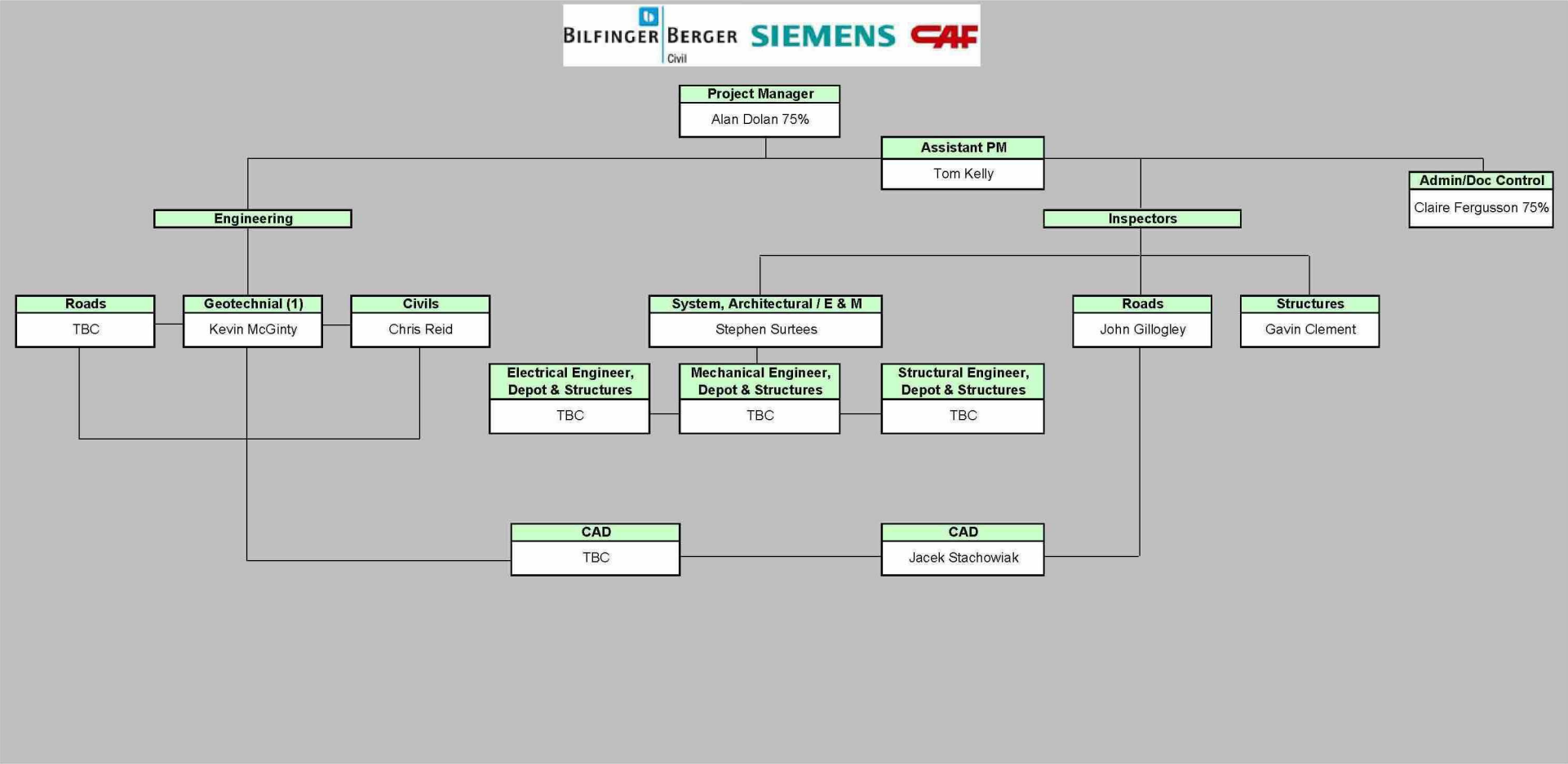
BSC Infraco Consortium Office
 9 Lochside Avenue
 Edinburgh
 EH12 9DJ

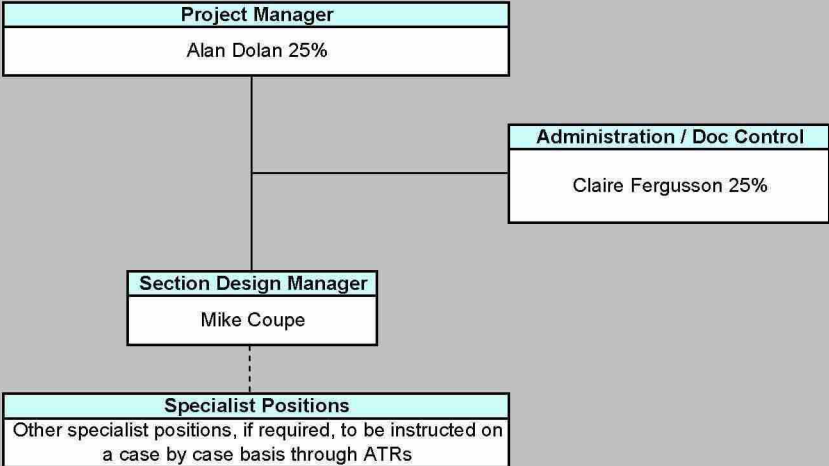
ETN – Edinburgh Tram Network

Working Chart
 Execution Phase
 SPM: Siemens Project Management
 ETN(SPM\$MG&ABB#050486
 Rev F 01.10.2009



Approved: Berrozpe
 Checked: (Brandenburger, Frentz)
 Prepared: (van Klaveren)
 File: ETN(SPM\$MG&ABB#050486_F.vsd
 Valid as of: 01.10.2009





10.9 Development Workshops

Misalignment Matrix

Version

21/10/2009

No.	Reference	Discipline	Item	Description / Scope of Work	Development Workshop	Date (scheduled)		Development Workshop Report and tie Instructions	
						BSC (SDS) Internal	confirmed date (tie)	current version issue date	completed
1	Appendix 4	Civils	Power	Power distribution equipment foundation design	Substations	11/06/2009	05/08/2009	29/09/2009	
2	Appendix 4	Civils	OLE	OLE support foundation design	OLE			11/03/2009	yes
3	Appendix 4	Civils	Bridges / Ret. Walls	Brief for any additional SI required	None at present	None known at present			
4	Appendix 4	OLE	OLE	Detailed design - catenary	OLE			11/03/2009	yes
5	Appendix 4	OLE	OLE	Detailed design - auto tensioned	OLE			11/03/2009	yes
6	Appendix 4	OLE	OLE	Building Fixing Report including design/approvals (excluding detailed wiring design and detailed building fixings locations)	OLE			11/03/2009	yes
7	Appendix 4	OLE	OLE	Pantograph interface and performance characteristics	OLE			11/03/2009	yes
8	Appendix 4	OLE	OLE	Typical cross sections and detailed cross sections	OLE			11/03/2009	yes
9	Appendix 4	OLE	OLE	Proposal for poles, wiring arrangements and the tensioning equipment	OLE			11/03/2009	yes
10	Appendix 4	OLE	OLE	Technical and performance specification for the OLE	OLE			11/03/2009	yes
11	Appendix 4	OLE	OLE	Proposal for equipment type and method of supporting the equipment along the route, including the wall fixings	OLE			11/03/2009	yes
12	Appendix 4	OLE	OLE	Detailed wiring layout design	OLE			11/03/2009	yes
13	Appendix 4	OLE	OLE	Detailed survey work including building location, height and condition; ground condition and pole location surveys	OLE			11/03/2009	yes
14	Appendix 4	OLE	OLE	Depot OLE Design	OLE			11/03/2009	yes
15	Appendix 4	OLE	OLE	Specify forces & moments for masts	OLE			11/03/2009	yes
16	Appendix 4	OLE	OLE	Mast foundations	OLE			11/03/2009	yes
17	Appendix 4	Power	Power Supplies	Substation external and Distribution design and approvals	Substations	11/06/2009	05/08/2009	29/09/2009	
18	Appendix 4	Power	Power Supplies	Substation internal and Distribution design and approvals	Substations	11/06/2009	05/08/2009	29/09/2009	
19	Appendix 4	Power	Power Supplies	Specify ducting requirements & mast to receive power supply	Radio Mast	31/03/2009	None known at present		
20	Appendix 4	Power	Power Supplies	Design ducting from substation to specified mast	Substations	11/06/2009	05/08/2009	29/09/2009	
21	Appendix 4	Power	Power Supplies	Substation Civil/Building design	Substations	11/06/2009	05/08/2009	29/09/2009	
22	Appendix 4	Power	Earthing and Bonding	Outline schematic cabling routing, earthing and bonding arrangements	Earthing + Bonding	10/06/2009	11/08/2009	14/10/2009	
23	Appendix 4	Power	Earthing and Bonding	Draft system earthing policy	Earthing + Bonding	10/06/2009	11/08/2009	14/10/2009	
24	Appendix 4	Power	Earthing and Bonding	Typical detail sketches of earthing and bonding solutions as required	Earthing + Bonding	10/06/2009	11/08/2009	14/10/2009	
25	Appendix 4	Power	Earthing and Bonding	Detail designs of earthing & bonding solutions as required	Earthing + Bonding	10/06/2009	11/08/2009	14/10/2009	
26	Appendix 4	Power	Earthing and Bonding	Selection of specific earthing & bonding components	Earthing + Bonding	10/06/2009	11/08/2009	14/10/2009	
27	Appendix 4	Power	Power Supplies	Determine traction power distribution equipment and principal component locations	TPS	Covered by Substation			
28	Appendix 4	Power	Power Supplies	Specification of traction power equipment and draft typical principal component locations	TPS	Covered by Substation			
29	Appendix 4	Power	Power Supplies	Relevant schematics and diagrams showing trackside traction equipment	OLE			11/03/2009	yes
30	Appendix 4	Power	Power Supplies	Review overhead line/cable make-up proposed	OLE			11/03/2009	yes
31	Appendix 4	Power	Power Supplies	Define overhead line/cable electrical make-up conductor and cable sections and cable materials	OLE			11/03/2009	yes
32	Appendix 4	Power	Power Supplies	Review traction supply substation positions proposed	Substations	11/06/2009	05/08/2009	29/09/2009	
33	Appendix 4	Power	Power Supplies	Define traction supply substation positions and rating	Substations	11/06/2009	05/08/2009	29/09/2009	
34	Appendix 4	Power	Power Supplies	Overhead line/cable make-up and traction supply substation positions input into Traction Power Study	TPS	Covered by OLE & Substation			
35	Appendix 4	Power	Power Supplies	Review results of traction power study. Revise make-up and traction supply substation positions and ratings as necessary	TPS	Covered by Substation			
36	Appendix 4	Power	Power Supplies	Track power feeding and sectioning diagrams for main lines and Depot	OLE			11/03/2009	yes
37	Appendix 4	Power	Power Supplies	Traction supply substation schematic drawings	Substations	11/06/2009	05/08/2009	29/09/2009	
38	Appendix 4	Power	Power Supplies	Feed track bed electrical stray current control requirements to track discipline	Earthing + Bonding	10/06/2009	11/08/2009	14/10/2009	
39	Appendix 4	Power	Power Supplies	Feed traction power distribution design information for the depot building and track system within the Depot complex, incorporating isolator interlocking with Depot plant and the items within the general scope above, to the Overhead Line Equipment and Depot disciplines	TPS	Covered by OLE, Depot & Substation			

No.	Reference	Discipline	Item	Description / Scope of Work	Development Workshop	Date (scheduled)		Development Workshop Report and tie Instructions	
						BSC (SDS) Internal	confirmed date (tie)	current version issue date	completed
40	Appendix 4	Power	Power Supplies	Work in conjunction with the Auxiliary Power discipline to specify the optimum method of supplying the Depot services power supply requirements, and feed into the appropriate Specifications	TPS	Covered by Depot & Substation			
41	Appendix 4	Power	Power Supplies	Traction power design report on overhead line/cable electrical make-up, traction supply substation positions, ratings, tram loadings, protection settings, load/fault discrimination, pantograph voltages and rail touch voltages	TPS	Covered by Substation			
42	Appendix 4	Power	Power Supplies	Draft traction supply substation equipment specification for traction supply substation procurement	Substations	11/06/2009	05/08/2009	29/09/2009	
43	Appendix 4	Power	Power Supplies	Feed overhead line/cable electrical make-up, including parallel support cabling,	OLE			11/03/2009	yes
44	Appendix 4	Power	Power Supplies	Feed traction power SCADA requirements to Systems and Communications discipline	TPS	Covered by Substation			
45	Appendix 4	Power	Power Supplies	Specify to Scottish Power the high and low voltage supply requirements as appropriate for traction, Depot services and substation building services	Substations	11/06/2009	05/08/2009	29/09/2009	
46	Appendix 4	Power	Switch heating	Switch heating specification	Points Heating	None known at present			
47	Appendix 4	Power	Permanent Way	Points heating	Points Heating	None known at present			
48	Appendix 4	Power	Power Supplies	Power distribution equipment foundation design	Substations	11/06/2009	05/08/2009	29/09/2009	
49	Appendix 4	Power	Power Supplies	Depot Substation and Distribution Design	Substations	11/06/2009	05/08/2009	29/09/2009	
50	Appendix 4	Supervisory, Control & Communications	Supervisory, Control & Communications	Define loop location	SCC		03/06/2009	24/09/2009 Draft	
51	Appendix 4	Tram Stops	Passenger Info	Provision for Passenger Information System	Tramstops	09/06/2009	04/08/2009	29/09/2009	
52	Appendix 4	Tram Stops	Passenger Info	Component selection Passenger Information System	Tramstops	09/06/2009	04/08/2009	29/09/2009	
53	Appendix 7, Part C	Accommodation Works		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC Design	None at present	None known at present			
54	Appendix 7, Part C	Building (Depot)		Liaison on steelwork design for Depot Building may be required to allow BBS to comply with BAA requirements for notice period to lower crane jibs if BAA require use of the auxiliary runway. Any re-design is unlikely or minimal	None at present	None known at present			
55	Appendix 7, Part C	Drainage		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC Design	Drainage	25/06/2009	25/08/2009	14/10/2009	
56	Appendix 7, Part C	Drainage		Requirements for maximising use of and connection to existing drainage network to be confirmed.	Drainage	25/06/2009	25/08/2009	14/10/2009	
57	Appendix 7, Part C	Earthworks		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC Design	None at present	None known at present			
58	Appendix 7, Part C	Earthworks		Requirements for excavation and filling below Earthworks Outline to be designed and specified and assessment of anticipated formation conditions	Trackform			11/03/2009	yes
59	Appendix 7, Part C	Earthworks			Trackform			11/03/2009	yes
60	Appendix 7, Part C	Earthworks		Formation requirements to be confirmed.	Trackform			11/03/2009	yes
61	Appendix 7, Part C	Earthworks		Requirements for excavation and disposal of contaminated material and refilling of void, to be designed and specified.	None at present	None known at present			
62	Appendix 7, Part C	Earthworks		Special geotechnical measures, e.g. embankment slope steepening (by selection of fill type, re-enforced earth) cut slope steepening (by slope drains, buttresses, soft nails) soft ground treatment (by surcharging/consolidation, load transfer platforms) to be designed and specified.	None at present	None known at present			
63	Appendix 7, Part C	Earthworks		Design special Geotechnical measures for Gogar Landfill Site. Solution to be developed.	None at present	None known at present			
64	Appendix 7, Part C	Geometry, Horizontal Alignment		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC design	Vertical and Horizontal Alignment	None known at present			
65	Appendix 7, Part C	Geometry, Horizontal Alignment		Confirmation required that alignment is compatible with CAF Tram DKE and LOD.	Vertical and Horizontal Alignment	None known at present			
66	Appendix 7, Part C	Landscaping		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC design	None at present	None known at present			

No.	Reference	Discipline	Item	Description / Scope of Work	Development Workshop	Date (scheduled)		Development Workshop Report and tie Instructions	
						BSC (SDS) Internal	confirmed date (tie)	current version issue date	completed
67	Appendix 7, Part C	OLE Foundations		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC Design	OLE			11/03/2009	yes
68	Appendix 7, Part C	Roads		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC Design	Roads			27/02/2008	yes
69	Appendix 7, Part C	Roads		Subject to survey, pavement design to be developed and finalised to minimise work scope	Roads			27/02/2008	yes
70	Appendix 7, Part C	Roads		Further pavement surveys and assessments are required.	Roads			27/02/2008	yes
71	Appendix 7, Part C	Site Clearance		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC design	None at present	None known at present			
72	Appendix 7, Part C	Site Clearance		Design to be completed to IFC status, all design consents and approvals obtained.	None at present	None known at present			
73	Appendix 7, Part C	Sub-station Buildings		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC Design	Substations	11/06/2009	05/08/2009	29/09/2009	
74	Appendix 7, Part C	Systems and Power Cable Ducts		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC Design	System and Power-cable ducts	24/06/2009	Covered by Substation & Tramstop		
75	Appendix 7, Part C	Trackform		Design to be completed to IFC status, all design consents and approvals obtained	Trackform			11/03/2009	yes
76	Appendix 7, Part C	Trackform		Cross sections required to reflect BBS's selected track system, including minimum track construction depths (top of rail to formation) with corresponding formation condition requirements	Trackform			11/03/2009	yes
77	Appendix 7, Part C	Trackform		Cross sections required to reflect BBS's selected track system, including minimum track construction depths (top of rail to formation) with corresponding formation condition requirements	Trackform			11/03/2009	yes
78	Appendix 7, Part C	Tramstops		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC Design	Tramstops	09/06/2009	04/08/2009	29/09/2009	
79	Appendix 7, Part C	Vertical Alignment		Design to be completed to IFC status, all design consents and approvals obtained and BBS will construct IFC Design	Vertical and Horizontal Alignment	None known at present			
80	Appendix 7, Part C	Vertical Alignment		Revise alignment, where possible and where Programme permits for on street section to minimise Roads work-scope	Roads			27/02/2009	yes
81	Appendix 7, Part C	Vertical Alignment		Revise alignment, where possible and where Programme permits to minimise Roads work-scope	Roads			27/02/2009	yes
82	Appendix 7, Part C	Vertical Alignment		Revised alignment required to facilitate direct fixing of rails to structures and guideway.	Vertical and Horizontal Alignment	None known at present			
83	Appendix 7, Part C	Vertical Alignment		Revised alignment required to facilitate direct fixing of rails to structures	Vertical and Horizontal Alignment	None known at present			
84	Appendix 7, Part C	W1 Lindsay Road		Design to be completed to IFC Status, all design consents and approvals obtained and BBS will construct IFC Design	None at present	None known at present			
85	Appendix 7, Part C	S16 Victoria Dock Entrance		Design to be completed to IFC Status, all design consents and approvals obtained and BBS will construct IFC Design	Vertical and Horizontal Alignment	None known at present			
86	Appendix 7, Part C	S17 Tower Place		Design to be completed to IFC Status, all design consents and approvals obtained and BBS will construct IFC Design	Vertical and Horizontal Alignment	None known at present			
87	Appendix 7, Part C	S18 Leith Walk Railway		Design to be completed to IFC Status, all design consents and approvals obtained and BBS will construct IFC Design	Vertical and Horizontal Alignment	None known at present			

Bilfinger Berger – Siemens – CAF Consortium

10.10 Issues and Concerns

Not Applicable