

**Edinburgh Trams**  
**City of Edinburgh Council**



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**Infraco Cost Report Section 6 - Credits & Contributions**

Ref No	Description	Included in Contract Sum	Approved Changes	Changes in Progress	Anticipated Changes	Total Forecast	Previous Period	Change from Previous	Contribution Received	Notes	Section Code	Change Code
01	Edinburgh Gateway Feasibility	861,943	82,944	0		944,887	944,887	0	944,887	£1.2m in total. Remainder of the costs included in CEC sections of the project budget.	05	01
02	New Ingliston Future Proof measures	540,000	0	0		540,000	540,000	0	540,000	Construction works element of overall settlement with NIL. Remaining amount contained in Land budget	07	01
03	Henderson Global - Cathedral Lane substation	-44,596	417,721	440,875	-344,000	470,000	470,000	0		Full extent of agreement with Henderson Global to be established. Allowance assumes all design costs and proportion of construction costs associated with future substation will be borne by Henderson Global. Cost of £470k has been submitted to Henderson Global	01	01
04	RBS Tramstop	560,000	0	0		560,000	560,000	0	448,000	Agreement reached with RBS 11/06/2012	07	01
05	St Andrew Square Public Realm design		135,143	0		135,143	135,143	0	135,143	As per agreed change value. Assumed to be recovered from separate budget	01	01
06	Forth Ports		0	0		0	0	0		Forth Ports work removed from scope - no further contribution from Forth Ports assumed	01	01
07	CEC Miscellaneous. Mainly George Street CEC costs (£298k)	318,213	0	0		318,213	318,213	0	318,213	CEC finance have confirmed that a credit has been received in the amount shown. The extent of the workscope associated with this credit is not clear.	01	01
08	Network Rail - Haymarket station refurbishment	0	12,698	0		12,698	12,698	0		Majority of this work now being carried out by Network Rail. Remaining allowance for wall to crew relief facilities	02	01
09	Contribution from CEC for public realm work (granite setts) at St Andrews Square	788,600	0	0		788,600	788,600	0		Setts funded by CEC. Saving based on spreadsheet issued to CEC (MM to AC 20/11/12).	01	01
10	Network Rail - Scottish Power Cable diversion - Haymarket Station (TNC 591)		19,842	0		19,842	19,842	0			05	01
11	Edinburgh Gateway Construction		3,416,010	0		3,416,010	3,416,010	0		Cost based on agreed TCO. No contingency included (TS carrying their own contingency)	05	01
12	St Andrew Square Public Realm Footways (Scoutmoor)	237,000	0	0		237,000	237,000	0		Offset by risk on basis that this may be claimed by Bilfinger as an extra	01	01
13	Hope Street Junction	23,000	0	0		23,000	23,000	0	23,000	Actual cost will be incurred in Utilities contract	01	01
14	RBS Tramstop: additional contribution for handrail to ramp		1,511	0		1,511	5,250	-3,739			07	01
15	Traffic Management costs incurred at York Place and during Christmas 2012 shutdown (tNC 639 Rev F and 728)	14,000	0	0		14,000	14,000	0	14,000		01	01
16	Additional crossing points at Shandwick Place as per tNC 756	25,000	0	0		25,000	25,000	0	25,000		01	01

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Ref No	Description	Included in Contract Sum	Approved Changes	Changes in Progress	Anticipated Changes	Total Forecast	Previous Period	Change from Previous	Contribution Received	Notes	Section Code	Change Code
17	Network Rail contribution for additional retaining measures resulting from changes to accepted Form B designs		0	0	250,000	250,000	250,000	0		Refer to Anticipated change items 51 and 52. Final contribution value subject to negotiations between CEC/Network Rail	05	01
18			0	0		0	0	0				
19		0	0	0		0	0	0				
<b>Total</b>		3,323,160	4,085,869	440,875	-94,000	7,755,904	7,759,643	-3,739	2,448,243			

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**Infraco Cost Report Section 7 - Change Summary**

Change Code	Description	Approved Change	Change in Progress	Anticipated Change	Contributions	Total
01	Scope Change	7,225,930	3,143,663	685,278		11,054,871
02	PAVs (Utilities, etc)	-439,902	-136,663	80,000		-496,565
03	Miscellaneous Client Risk Items	285,728	0	0		285,728
04	Time Delay	2,364,718	2,176,443	0		4,541,161
05	Project Contributions	0	0	0	-7,755,904	-7,755,904
<b>Total</b>		<b>9,436,474</b>	<b>5,183,443</b>	<b>765,278</b>	<b>-7,755,904</b>	<b>7,629,291</b>

**Notes:**

Some CE's have costs which relate to more than one change code. In such instances they have been allocated to the predominant reason.

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**Infraco Cost Report Section 8 - Period Movement**

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
539	System Wide - Delay in signing - impact on commencement and completion - costs incurred at front end of programme	241,827		0	0	241,827
539.1	System Wide - Delay in signing - impact on commencement and completion - prolongation costs at end of programme	0		-241,827	0	-241,827
553	SDS to provide the services of Matt Fell until August 2012	-11,269		0	0	-11,269
560	St. Andrew Square - Omit work North South & West St Andrew Square and St David Street	-2,156,490		2,070,000	0	-86,490
562	On Street Generally - OLE Design Changes for On Street Section (PMC 045) - SIEMENS DESIGN WORKS	-8,325		0	0	-8,325
571	Hope Street Junction Design	-8,422		0	0	-8,422
600	Shandwick place - OLE bases affecting utilities (Piling)	0		0	-481	-481
605	Depot - Sub-Station Switching	49,250		0	0	49,250
637	St Andrew Square Pedestrian Crossing	0		0	1,193	1,193
652	Maintenance of The Depot Workshop Equipment	15,367		0	0	15,367
678	Temporary traffic management design at York Place to keep bus station access open	0		0	12,880	12,880
682	Desclope work associated with street lighting, road signage & traffic signals	0		0	50,000	50,000
691	Cathedral Lane re-design	-1,431		0	0	-1,431
700	Hope Street Junction Works	0		0	171	171
701	Reinstatement works at the Airport	61,500		0	0	61,500

**Infraco Cost Report Section 8 - Period Movement**

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
704	Redesign of St Andrew Square - East	-5,793		0	0	-5,793
712	New fence and ramp at Murrayfield Wanderers FC	3,000		0	0	3,000
717	Cost Engineering in respect of the Programme (22 week saving)	269,159		0	0	269,159
717.1	Cost Engineering in respect of the Programme (22 week saving)	0		-269,159	0	-269,159
725	Provision of DWG drainage drawings for handover to Scottish Water	295		0	0	295
734	West Maitland Street / Manor Place traffic signals	0		0	-4,000	-4,000
736	Road Markings for Bus Stops and Loading Bays on Shandwick Place	2,500		-2,500	0	0
740	Haymarket Island - amend levels	0		0	-603	-603
741	Street Lighting poles - clarification of scope	0		0	3,439	3,439
751	Gogarburn Hoarding - remove off site (hoarding originally installed by MUDFA)	-32		0	0	-32
752	Gogarburn Tramstop - New handrail to ramp	-3,739		0	0	-3,739
755	Relocate signage at Gogarburn tram stop	-617		0	0	-617
756	Walkways at Shandwick Place for next two international rugby matches	0		0	-2,803	-2,803
762	Omit junctions 22 and 26 from scope (Siemens cost only)	-198,998		0	0	-198,998
763	SPRUCE traffic control system	198,995		0	0	198,995

**Infraco Cost Report Section 8 - Period Movement**

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
765	Additional fencing along the railway corridor	0		27,000	0	27,000
766	Change to lantern specification for wall mounted floodlights.	0		0	20,000	20,000
<b>Total</b>		<b>-1,553,224</b>	<b>0</b>	<b>1,583,514</b>	<b>79,797</b>	<b>110,087</b>
Anticipated Change				-80,000	-20,000	-100,000
Opportunities				0	0	0
Change to Anticipated Final Cost		-1,553,224	0	1,503,514	59,797	10,087
Contributions				-3,739	0	-3,739
Change to Anticipated Final Project Cost		-1,553,224	0	1,507,253	59,797	13,826

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**Utilities Cost Report: Section 1 - Utilities Summary**

	Budget Information			Committed			Forecast					Third Party Contributions		Variance		Actuals	
	A	B	C = A + B	D	E	F = D + E	G	H	I	J	K = F + G + H + I + J	L	M = K-L	N = M - C	O = M / C - 1	P	Q
	Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	Changes in Progress	Anticipated Change	Opportunities	Risk / Provision	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)	Cost of Work Done	Outstanding Amount
Post Settlement Utilities	2,912	16,049	18,961	2,912	16,049	18,961	0	1,393	0	0	20,354	0	20,354	1,393	7.3%	19,748	-787
McNicholas	1,812	14,151	15,963	1,812	14,151	15,963	0	1,178	0	0	17,141	0	17,141	1,178	7.4%	16,676	-713
01 Conflicts	1,812	4,274	6,086	1,812	4,274	6,086		120			6,206	0	6,206	120	2.0%	6,143	-57
01A Drainage		2,481	2,481		2,481	2,481		0			2,481	0	2,481	0	0.0%	2,456	25
01B Grosvenor St / Haymarket Sewer Collapse		-10	-10		-10	-10		188			178	0	178	188	-1880.0%	178	-188
01C Tower Place Bridge		71	71		71	71		0			71	0	71	0	0.0%	71	0
01D Princes Street Outstanding Works		108	108		108	108		0			108	0	108	0	0.0%	108	0
01E Priority 2 Works		2,911	2,911		2,911	2,911		356			3,267	0	3,267	356	12.2%	3,156	-245
01F Public Realm Works		67	67		67	67		15			82	0	82	15	22.4%	82	-15
02 Legacy Works		1,411	1,411		1,411	1,411		361			1,772	0	1,772	361	25.6%	1,683	-272
03 Standby Team		0	0		0	0		0			0	0	0	0		0	0
04 Management Team		1,455	1,455		1,455	1,455		45			1,500	0	1,500	45	3.1%	1,410	45
05 Design Team		1,316	1,316		1,316	1,316		91			1,407	0	1,407	91	6.9%	1,323	-7
06 Accomodation		67	67		67	67		2			69	0	69	2	3.0%	66	1
Statutory Utility Companies	0	2,525	2,525	0	2,525	2,525	0	215	0	0	2,740	0	2,740	215	8.5%	2,662	-137
01 Scottish Power		115	115		115	115		5			120		120	5	4.3%	120	-5
02 Scottish Gas Networks		20	20		20	20		0			20		20	0	0.0%	20	0
03 Scottish Water		1,380	1,380		1,380	1,380		190			1,570		1,570	190	13.8%	1,502	-122
04 Virgin Media		306	306		306	306		14			320		320	14	4.6%	314	-8
05 Verizon		4	4		4	4		1			5		5	1	25.0%	4	0
06 Cable & Wireless		54	54		54	54		3			57		57	3	5.6%	55	-1
07 Fibrenet		188	188		188	188		0			188		188	0	0.0%	188	0
08 BT		449	449		449	449		1			450		450	1	0.2%	450	-1
09 Siemens		9	9		9	9		1			10		10	1	11.1%	9	0
12 Contributions (all companies)		0	0		0	0		0			0		0	0		0	0
00 Legacy Works	1,100	-627	473	1,100	-627	473		0			473		473	0	0.0%	410	63

Comments:  
All values are in £k.

Risk  
Refer to Risk register for risks identified against McNicholas

Actions

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**Tramco Cost Report Section 1 - Tramco Commercial Summary**

	Budget Information			Committed			Forecast					Third Party Contributions		Variance		Actuals	
	A	B	C = A + B	D	E	F = D + E	G	H	I	J	K = F + G + H + I + J	L	M = K - L	N = M - C	N = M / C - 1	O	P
	Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	Changes in Progress	Anticipated Change	Opportunities	Risk / Provision	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)	COWD to Date	Outstanding Amount
Trams	62,400	5	62,405	63,645	5	63,650	35	300	0	0	63,985	-300	63,685	1,280	2.53%	62,038	1,612
CAF	62,400	5	62,405	63,581	5	63,586	35	300	0	0	63,921	-300	63,621	1,216	2.43%	61,974	1,612
01 Trams	55,042	0	55,042	55,042	0	55,042	0	0			55,042	0	55,042	0	0.00%	53,390	1,652
02 Tram Maintenance Mobilisation	2,276	0	2,276	2,276	0	2,276	0	0			2,276	0	2,276	0	0.00%	2,116	160
03 Depot Equipment	740	0	740	740	0	740	0	0			740	0	740	0	0.00%	740	0
04 Miscellaneous	73	0	73	73	0	73	0	0			73	0	73	0	0.00%	73	0
05 Modification 1 - Interior Layout	300	0	300	300	0	300	0	0			300	0	300	0	0.00%	300	0
06 Modification 2 - Delivery First Tram	38	0	38	38	0	38	0	0			38	0	38	0	0.00%	38	0
07 Phoenix and Prioritised Works	3,931	0	3,931	5,112	0	5,112	0	0			5,112	0	5,112	1,181	30.04%	5,112	0
10 Post Mediation Change		5	5		5	5	35	300			340	-300	40	35	6700.00%	205	-200
Non CAF	0	0	0	64	0	64	0	0	0	0	64	0	64	64	#DIV/0!	64	0
01 Miscellaneous Costs		0	0	64		64					64		64	64	#DIV/0!	64	0

Comments:  
Miscellaneous costs were expended prior to mediation and have been allocated to this budget

Risk  
Refer to Risk register for risks identified against infraco programme  
All risk is held at programme level. This section of the cost report makes no allowance for risk.  
Refer to the outputs of the QCRA/QSRA for further information

Actions

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**Tramco Cost Report Section 3 - Change in Progress**

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Group	Change Code
004	Bus Tracker - Termination of Wiring	35,000	35,000	0		10	01
Total		35,000	35,000	0			

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**Tramco Cost Report Section 4 - Anticipated Change**

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Change Code
1	Tram Integration Manager	300,000	300,000	0	Based on requirement for one year. Additional cost if requirement extends beyond 2 years. Offset by contribution	10
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
Total		300,000	300,000	0		

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**Tramco Cost Report Section 5 - Credits & Contributions**

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Change Code
1	Tram Integration Manager	-300,000	-300,000	0	Assumed contribution from Transport Scotland	10
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
Total		-300,000	-300,000	0		

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## Appendix 3 – Change Log



TMC No.	ICD No.	Location	Description	Reason for Change	On Street / Off Street	Change Category	Change Owner	Class / Sched 45 / Instruction	Letter Ref	Date Issued	Estimate Returned NY	Date Received	Estimate Value (Design)	Estimate Value (Construction)	Time Implications	Date Issued by CEC	Approved by CEC/TET	Date Approved or Rejected	Approved Change	Date CO Issued	TO Letter Ref	Date Draft TNC sent to BBS	Date Draft TO sent to BBS	Date Draft NY/COSED OUT	Comments
549	38.45	510/512	Private Street	To avoid conflict with a tree	On Street	U/C	SL	Clear 80		15/01/2021	N/A	N/A	N/A	N/A	T&T	27/11/2021		27/11/2021	27/11/2021	NF COR 7984				COSE NOW COLLATED AGAINST TCO 521.1 BY TIME CHANGE TCO	
550	045	514/513.1	Sharnock Place	A number of utility conflicts to be relocated in relation to proposed bus stop relocation	On Street	U/C	SL	Clear 80		19/07/2021	N/A	N/A	N/A	N/A	T&T	23/11/2021		23/11/2021	23/11/2021	NF COR 8025				N	
551	043	N/A	Private Street	2021 Christmas Embargo - Temporary surfacing of track infills	On Street	PAV	MM	N/A					N/A	N/A	T&T	23/11/2021		23/11/2021	23/11/2021	N/A	Schedule 45			N	Priority Assumption Variation
552	044	N/A	Private Street	RT diversion at junction of Princes Street and South St. David Street	On Street	PAV	MM	N/A					N/A	N/A	T&T	23/11/2021		23/11/2021	23/11/2021	N/A	Schedule 45			N	Priority Assumption Variation
553	048	51E	Str Wide	SDS to provide the services of Asset Full until end March 2022	On Street	U/C	SL	Clear 80		26/12/2021			SEE TCO 51E REV			02/02/2022		02/02/2022	02/02/2022	NF COR 7988				Y	
554	048	51E	Str Wide	SDS to provide the services of Asset Full until end July 2022	On Street	U/C	SL	Clear 80		30/12/2021			SEE TCO 51E REV			28/02/2022		28/02/2022	28/02/2022	NF COR 8081				Y	
555	048	51F	Str Wide	SDS to provide the services of Asset Full until end September 2022	On Street	U/C	SL	Clear 80		30/12/2021			SEE TCO 51E REV			28/02/2022		28/02/2022	28/02/2022	NF COR 8084				Y	
556	048	51G	Str Wide	SDS to provide the services of Asset Full until end November 2022	On Street	U/C	SL	Clear 80		30/12/2021			SEE TCO 51E REV			28/02/2022		28/02/2022	28/02/2022	NF COR 8087				Y	
557.1	048	51H.4	Str Wide	To assist in the utility design	On Street	U/C	SL	Clear 80		30/12/2021			SEE TCO 51H.4 REV			07/09/2022		07/09/2022	07/09/2022	NF COR 8091				Y	TCD BARRIED UNDER CAUSE 80.15, THE DARK TIME CHANGE TCO
557.2	048	51H.5	Str Wide	To assist in the utility design	On Street	U/C	SL	Clear 80		30/12/2021			SEE TCO 51H.5 REV			07/09/2022		07/09/2022	07/09/2022	NF COR 8092				Y	TCD BARRIED UNDER CAUSE 80.15, THE DARK TIME CHANGE TCO
558	048	51I	Str Wide	To assist in the utility design	On Street	U/C	SL	Clear 80		30/12/2021			SEE TCO 51I REV			07/09/2022		07/09/2022	07/09/2022	NF COR 8093				Y	TCD BARRIED UNDER CAUSE 80.15, THE DARK TIME CHANGE TCO
559	052	N/A	Str Andrew Square & Str Andrew's Place	Traffic Management Requirements	On Street	D/C	RL	Schedule 45		12/12/2021			N/A	N/A	CEC	09/12/2021		09/12/2021	09/12/2021	N/A	Schedule 45			N	N/A - Schedule 45
559.1	052	N/A	Str Andrew Square & Str Andrew's Place	Traffic Management Requirements	On Street	D/C	RL	Schedule 45		12/12/2021			N/A	N/A	CEC	09/12/2021		09/12/2021	09/12/2021	N/A	Schedule 45			N	N/A - Schedule 45
560	048	52J	Haymarket	ULE 1586 design revision to avoid main sewer	On Street	U/C	SL	Clear 80		13/12/2021			N/A	N/A	CEC	14/12/2021		14/12/2021	14/12/2021	NF COR 8097				Y	TNC NOT ISSUED
561	048	52K	Haymarket	Track Work Materials Van Park to Newark - Price Fixing for Ruble's City Card D	On Street	C/R	MM	Clear 80		13/12/2021			SEE 52J.2					13/12/2021	13/12/2021	NF COR 8016				Y	Confirmation of instruction given by Colin Smith and issued by letter to BBS
562	045	52L.1	Haymarket	OLE Base Relocation (Revised TCO to increase N/E Value) on the ETN	On Street	U/C	RL	Clear 80		N/A			SEE 52L.2			27/02/2022		27/02/2022	NF COR 8417				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
562.1	045	52L.2	Haymarket	OLE Base Relocation (Revised TCO to increase N/E Value)	On Street	U/C	RL	Clear 80		N/A			SEE 52L.2			27/02/2022		27/02/2022	NF COR 8417				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
562.2	045	52L.3	Haymarket	OLE Base Relocation (Revised TCO to increase N/E Value)	On Street	U/C	RL	Clear 80		N/A			SEE 52L.2			27/02/2022		27/02/2022	NF COR 8417				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
562.3	045	52L.4	Haymarket	OLE Base Relocation (Revised TCO to increase N/E Value)	On Street	U/C	RL	Clear 80		N/A			SEE 52L.2			27/02/2022		27/02/2022	NF COR 8417				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
562.4	045	52L.5	Haymarket	OLE Base Relocation (Revised TCO to increase N/E Value)	On Street	U/C	RL	Clear 80		N/A			SEE 52L.2			27/02/2022		27/02/2022	NF COR 8417				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
563	045	530/531.2	On Street Generally	Provision of a CAD technician	On Street	D/C	GE	Clear 80		13/12/2021			£1,893.00			13/12/2021		13/12/2021	13/12/2021	NF COR 8013				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2
564	055	644	On Street Generally	Provision of a CAD technician	On Street	D/C	GE	Clear 80		13/12/2021			£1,893.00			13/12/2021		13/12/2021	13/12/2021	NF COR 8013				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2
565	044	533	Edinburgh Gateway	Detailed Design of /over Pass Terminal	On Street	C/R	RL	Clear 80		15/12/2021			£56,438.11			03/01/2022		03/01/2022	NF COR 8019				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
565.1	054	533.1	Edinburgh Gateway	Detailed Design of /over Pass Terminal	On Street	C/R	RL	Clear 80		15/12/2021			£56,438.11			03/01/2022		03/01/2022	NF COR 8019				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
565.2	054	533.2	Edinburgh Gateway	Detailed Design of /over Pass Terminal	On Street	C/R	RL	Clear 80		15/12/2021			£56,438.11			03/01/2022		03/01/2022	NF COR 8019				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
565.3	054	533.3	Edinburgh Gateway	Detailed Design of /over Pass Terminal	On Street	C/R	RL	Clear 80		15/12/2021			£56,438.11			03/01/2022		03/01/2022	NF COR 8019				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
566	046	535	On Street Generally	Ducting Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
566.1	046	535.1	On Street Generally	Ducting Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
566.2	046	535.2	On Street Generally	Ducting Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
566.3	046	535.3	On Street Generally	Ducting Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
566.4	046	535.4	On Street Generally	Ducting Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
567	046	536	On Street Generally	Drainage Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
567.1	046	536.1	On Street Generally	Drainage Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
567.2	046	536.2	On Street Generally	Drainage Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
567.3	046	536.3	On Street Generally	Drainage Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
567.4	046	536.4	On Street Generally	Drainage Design Change Due to Utilities Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£300,000.00			09/02/2022		09/02/2022	NF COR 8021				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
568	047	537	On Street Generally	Design Change Due to Traffic Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£100,000.00			11/01/2022		11/01/2022	NF COR 8061				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
568.1	047	537.1	On Street Generally	Design Change Due to Traffic Conflicts	On Street	D/C	RL	Clear 80		13/02/2021			£100,000.00			11/01/2022		11/01/2022	NF COR 8061				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
569	047	538	Edinburgh Park	Additional Bunting Code associated with the extension to the Edinburgh Park offices	On Street	C/R	CS	Clear 80		13/02/2021			£79,700.00			11/01/2021		11/01/2021	NF COR 8064				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
570	5A.133	N/A	Sharnock Place	On the Removal of Trees in Sharnock Place	On Street	D/C	RL	Schedule 45		13/02/2021			N/A	N/A	T&T	13/02/2021		13/02/2021	NF COR 8065				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
571	064	571	Hopie Street	Hopie Street Junction Design	On Street	C/R	SL	Clear 80		13/02/2021			SEE TCO 573 REV A			07/09/2022		07/09/2022	NF COR 8070				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
571.1	064	571.1	Hopie Street	Hopie Street Junction Design	On Street	C/R	SL	Clear 80		13/02/2021			SEE TCO 573 REV A			07/09/2022		07/09/2022	NF COR 8070				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
571.2	064	571.2	Hopie Street	Hopie Street Junction Design	On Street	C/R	SL	Clear 80		13/02/2021			SEE TCO 573 REV A			07/09/2022		07/09/2022	NF COR 8070				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
571.3	064	571.3	Hopie Street	Hopie Street Junction Design	On Street	C/R	SL	Clear 80		13/02/2021			SEE TCO 573 REV A			07/09/2022		07/09/2022	NF COR 8070				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
571.4	064	571.4	Hopie Street	Hopie Street Junction Design	On Street	C/R	SL	Clear 80		13/02/2021			SEE TCO 573 REV A			07/09/2022		07/09/2022	NF COR 8070				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
572	062	540	Cathedral Lane Station	Retaining Wall Design	On Street	C/R	RL	Clear 80		19/07/2021			£34,458.86			19/07/2021		19/07/2021	NF COR 8086				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
572.1	062	540.1	Cathedral Lane Station	Retaining Wall Design	On Street	C/R	RL	Clear 80		19/07/2021			£34,458.86			19/07/2021		19/07/2021	NF COR 8086				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	
573	065	543	Robertson	Non SDA Compliant Footpath (ROSEBURN DELTA)	Off Street	C/R	SM	Clear 80		19/07/2021			£55,238.40			26/07/2022		26/07/2022	NF COR 8073				Y	COSE 521.1 under Clause 80.15 and updated with COSE 521.2	





TNC No.	PWC No.	TCO No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	TSY Change Owner	Change Category DC/UC/CR/SR	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate Returned N/Y	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved by CEC/TSY	Date Approved or Rejected	Agreed Cost for Approved Contract Change	Date TCO Issued	TCO Letter Ref	Date DRAFT TNC sent to BBS	Date DRAFT TNC returned by BBS	Date DRAFT TCO sent to BBS	Date DRAFT TCO returned by BBS	TCO RETURNED N/Y/CLOSED OUT	Comments		
609	91	574	Off Street - Section 1A	Traffic Management For Section 1A	Confirmation of Requirements and update.	Off Street	Clause 80	RL	C/R	05/04/2012	INF CORR 8238	02/05/2012	Y	26/05/2012	N/A	£133,140.45	None	04/04/2012	CEC	04/04/2012	£133,140.45	12/06/2012	INF CORR 8239					CO	TCO APPROVED CHANGE MEETING 11.6.12		
610	168	564	Edinburgh Gateway	Siemens Long Lead Items	Order For OLE Poles and Turnout	Off Street	Clause 80	SM	DC	12/07/2012	INF CORR 8449	07/08/2012	N	Clause 80	N/A	None	09/07/2012	CEC	09/07/2012		12/07/2012	INF CORR 8449						Y			
611	114		On Street - Generally	Excavation for Track Slab now by Utilities Contractor	Address utilities clashes as they occur, and avoid disruption to Infraco work	On Street	Schedule 45	RL	UC	10/05/2012	INF CORR 8308	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	08/05/2012	CEC	08/05/2012		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
612	102		On Street - Generally	Tram Stops, Branding Changes - ON STREET	Accommodate branding changes being finalised by Operator	On Street	Schedule 45	RL	C/R	26/04/2012	INF CORR 8381	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	24/04/2012	CEC	24/04/2012		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
612.1	102		On Street - Generally	Tram Stops, Branding Changes - ON STREET	Accommodate branding changes being finalised by Operator	On Street	Schedule 45	RL	C/R	10/05/2012	INF CORR 8302	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	08/05/2012	CEC	08/05/2012		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
613	103		On Street - SAS/Waterloo Place	Temporary Bus Station at St Andrew Square/Waterloo Place - DESIGN	Required for the York Place phase of TM when full closure adopted October 2012.	On Street	Schedule 45	RL	C/R	26/04/2012	INF CORR 8281	18/05/2012					24/04/2012	CEC	24/04/2012		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45	ACRFPD AS TM RELATED NOW UNDER SCHEDULE 45		
614	104		On Street - Rothsay Place	Rothsay Place Traffic Management Amendment	Safety issues at Palmerston Place end of Rothsay Place following implementation of traffic switch	On Street	Schedule 45	RL	C/R	26/04/2012	INF CORR 8282	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	24/04/2012	CEC	24/04/2012		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
615	92	568	Off Street - Section 2A	Design wall for blocking off of the wall under the Haymarket viaduct as a result of the 'crow relief' facility being omitted	Request by NW to block off void	Off Street	Clause 80	SM	DC	26/04/2012	INF CORR 8276	N/A	N/A	N/A	N/A	N/A	TBA	24/04/2012	CEC	24/04/2012	EE TCO 568 REV A	08/05/2012	INF CORR 8300						Y	80.15 TCO	
615.1	92	568.1	Off Street - Section 2A	Design wall for blocking off of the wall under the Haymarket viaduct as a result of the 'crow relief' facility being omitted	Request by NW to block off void	Off Street	Clause 80	SM	DC	SEE TNC 615	SEE TNC 615	N/A	Y	07/08/2012	£1,900.12	N/A	TBA	24/09/2012	CEC	24/09/2012	£1,900.12	09/10/2012	INF CORR 8669						CO	TCO REFERENCE SHOULD BE REV A, OTHERWISE OK TO CLOSE OUT.	
616	92	567	Off Street - Section 2A	Construct wall for blocking off of the wall under the Haymarket viaduct as a result of the 'crow relief' facility being omitted	Request by NW to block off void	Off Street	Clause 80	SM	DC	26/04/2012	INF CORR 8277	N/A	N/A	N/A	N/A	£10,797.88	TBA	24/04/2012	CEC	24/04/2012	£10,797.88	08/05/2012	INF CORR 8301						CO		
617	105		Off Street - Generally	Tram Stops, Branding Changes - OFF STREET	Accommodate branding changes being finalised by Operator	Off Street	Clause 80	SM	C/R	26/04/2012	INF CORR 8281	18/05/2012	N				24/04/2012	CEC	24/04/2012										N	See 617.1	
617.1	105		Off Street - Generally	Tram Stops, Branding Changes - OFF STREET	Accommodate branding changes being finalised by Operator	Off Street	Clause 80	SM	C/R	10/05/2012	INF CORR 8304	01/06/2012	N				08/05/2012	CEC	08/05/2012											N	Chase up BBS on why estimate still outstanding
618	112	576	Off Street - Depot	Gigar Depot 1800mm Diameter Manhole - TQ736	Requirement by Scottish Water	Off Street	Clause 80	SM	UC	02/05/2012	INF CORR 8292	25/05/2012	Y	24/05/2012	N/A	£6,176.31	None	30/04/2012	CEC	30/04/2012		TCO FOR CEC APPROVAL 18.6.12	19/06/2012	INF CORR 8386						CO	
619	106	575	Off Street - Depot	Ornit Track Welding Equipment	As track welding is specialist activity the main tinner will not have the capabilities in house	Off Street	Clause 80	SM	DC	01/05/2012	INF CORR 8290	25/05/2012	Y	21/05/2012	N/A	-£14,420.00	None	30/04/2012	CEC	30/04/2012	-£14,420.00	12/06/2012	INF CORR 8381						CO		
620	115	569	Off Street - Airport Tram Stop	Airport Tram Stop Design	Progress with Design for Airport Tram Stop	Off Street	Clause 80	SM	DC	10/05/2012	INF CORR 8305	01/06/2012	Y	SEE TCO 569 Rev A	SEE TCO 569 Rev A	N/A	TBA	08/05/2012	CEC	08/05/2012	SEE TCO 569 REV A	10/05/2012	INF CORR 8305						Y		
620.1	115	569.1	Off Street - Airport Tram Stop	Airport Tram Stop Design	Progress with Design for Airport Tram Stop	Off Street	Clause 80	SM	DC	ISSUED AS TCO	ISSUED AS TCO	ISSUED AS TCO	Y	07/08/2012	£17,783.97	N/A	TBA	03/08/2012	CEC	03/08/2012	£17,783.97	27/08/2012	INF CORR 8650	N/A	N/A	N/A	N/A		CO		
621	111	587	Site Wide - Deferred HV Energisation	Amend the dates of the HV meter installation at Ingliston, Bankhead, Jamnara, Haymarket and Cathedral Lane substations to align more closely with the dates the power supply is required for Testing and Commissioning	Saving to CEC Electricity charge paid direct to avoid Scottish Power Capacity Charge until power needed for Testing and Commissioning. Will incur additional payment as a result second visit by SP	Site Wide	Clause 80	CL	UC	16/05/2012	INF CORR 8319	9/05/2012	Y	09/05/2012	N/A	£12,507.00	None	08/05/2012	CEC	08/05/2012	TCO FOR CEC APPROVAL 1.7.12	10/07/2012	INF CORR 8441						CO	Potential saving of £.134 k on Electricity Charges, although will incur £.12 k addition on Infraco as result separate visit by Scottish Power.	
622	117	589	Site Wide - LV Power Requirements for ETN	Agreement on Method of Recovery for LV power for sub-station and Tramstop.	Agree method of recovery as CEC paying power direct.	Site Wide	Clause 80	CL	UC	16/05/2012	INF CORR 8320	12/06/2012	Y	21/05/2012	N/A	CONFIRMATION OF AGREEMENT	None	08/05/2012	CEC	08/05/2012	N/A	16/07/2012	INF CORR 8457						Y		
623	120	596	Depot - Damage Repairs	Repair minor damage to Depot.	Repairs	Off Street	Clause 80	CL	UC	16/05/2012	INF CORR 8322	08/06/2012	Y	31/08/2012	N/A	£1,867.15	None	08/05/2012	CEC	14/05/2012		28/08/2012	INF CORR 8535						N		
624	116	584	Depot - Compressed Air Supply to Depot Gantry Road and Workshop	Supply and fit additional pipes and fittings to provide a compressed air supply to the Depot gantry roads and the workshop	Request from CAF	Off Street	Clause 80	CL	UC	16/05/2012	INF CORR 8318	12/06/2012	Y	12/06/2012	N/A	£5,576.00	None	08/05/2012	CEC	16/05/2012		13/07/2012	INF CORR 8450						CO	Value agreed, check work done - 14.9.12	
625	113		On Street - Cathedral Lane	<del>On Street - Cathedral Lane - TNC withdrawn now covered under TNC 566 and TCO 535 Rev A</del>	<del>On Street - Cathedral Lane - TNC withdrawn now covered under TNC 566 and TCO 535 Rev A</del>	Off Street	Clause 80	RL	UC	<del>10/05/2012</del>	<del>INF CORR 8303</del>																			N/A	
626	141		Off Street - Edinburgh Gateway Tramstop	Advanced procurement of Edinburgh Gateway Materials and Equipment. REQUIREMENT NOW TRANSFERRED TO TNC 643	Ensure Gateway Tramstop materials are identified and stored separately from other Tramstops on Project.	Off Street	Clause 80	SM	CR	10/05/2012	INF CORR 8306		N				TBA	08/05/2012	CEC	08/05/2012									N	TNC 626 NOW WITHDRAWN REQUIREMENTS TRANSFERRED TO TNC 643	
626.1	141		Off Street - Edinburgh Gateway Tramstop	Advanced procurement of Edinburgh Gateway Materials and Equipment. Rev A gives clarification on sourcing of materials. REQUIREMENT NOW TRANSFERRED TO TNC 643	Ensure Gateway Tramstop materials are identified and stored separately from other Tramstops on Project.	Off Street	Clause 80	SM	CR	01/06/2012	INF CORR 8361	25/06/2012	N				TBA	01/06/2012	CEC	01/06/2012									N	TNC 626 NOW WITHDRAWN REQUIREMENTS TRANSFERRED TO TNC 643	
626.2	141		Off Street - Edinburgh Gateway Tramstop	Advanced procurement of Edinburgh Gateway Materials and Equipment. Rev B takes out Platform Lighting. REQUIREMENT NOW TRANSFERRED TO TNC 643	Ensure Gateway Tramstop materials are identified and stored separately from other Tramstops on Project.	Off Street	Clause 80	SM	CR								03/07/2012	CEC	03/07/2012										N	TNC 626 NOW WITHDRAWN REQUIREMENTS TRANSFERRED TO TNC 643	
627	119	589	On Street - Pedestrian Guardrail	Delete pedestrian guardrail in the area outside St John's Church - DESIGN	Guardrail no longer required.	On Street	Clause 80	RL	DC	16/05/2012	INF CORR 8323	12.06.2012	Y	11/07/2012	£0.00	N/A	None	21/05/2012	CEC	21/05/2012	£0.00	21/08/2012	INF CORR 8530						CO		
628	186		MUDFA As Built	Bring As Built up to date as result Utility diversions.	CDM requirements	Site Wide	Clause 80	RL	CR	15/08/2012	INF CORR 8516	08/09/2012	N				13/08/2012	CEC	13/08/2012												
629	99,126, 158, 159	N/A	On Street - Section 1D East End of Shandwick S1 (Lothian Road Junction)	Utilities affecting Track Excavation at S1	Utilities encountered whilst excavating the Track Box.	On Street	Schedule 45	RL	PAV			N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	PAV	PAV	PAV		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
630	100,127	N/A	On Street - Section 1D Shandwick S2 (Atholl Place)	Utilities affecting Track Excavation at S2	Utilities encountered whilst excavating the Track Box.	On Street	Schedule 45	RL	PAV			N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	PAV	PAV	PAV		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
631	101	N/A	On Street - Section 1D Shandwick S2 (Atholl Place)	Third parties affecting ability to progress excavating Track Box.	Third Parties	On Street	Schedule 45	RL	PAV			N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	PAV	PAV	PAV		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
632	118	570	Off Street - Depot	Depot Building water Ingression resolution	Resolve water Ingression around the building floor and inspection pits.	Off Street	Clause 80	SM	UC	16/05/2012	INF CORR 8317	12/06/2012					21/05/2012	CEC	21/05/2012		16/05/2012								N	URGENT ISSUE - INSTRUCTED TO ISSUE BY CEC	
632.1	118	570.1	Off Street - Depot	Depot Building water Ingression resolution. Rev A Delete requirement to provide Wet Vac.	Delete requirement to provide Wet Vac, now to be provided by Lothian Bus	Off Street	Clause 80	SM	UC	06/09/2012	INF CORR 8566	N/A - Deletion					03/09/2012	CEC	03/09/2012		06/09/2012	INF CORR 8566							Y		
633	138	N/A	On Street - Princes St	Princes St Ponding at junction Frederick St/Castle St	Ponding on Princes St	On Street	Schedule 45	RL	UC	22/05/2012	INF CORR 8329	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	21/05/2012	CEC	21/05/2012		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
634	123	N/A	On Street - Cathedral Lane	Excavation and duct installation York Place to Cathedral Lane now by Utilities Contractor	Address utilities clashes as they occur, and avoid disruption to Infraco work	On Street	Schedule 45	RL	UC	22/05/2012	INF CORR 8331	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	21/05/2012	CEC	21/05/2012		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
635	135,142	N/A	On Street - Drainage	On Street Drainage Scope	Identified Drainage now being carried out by Utilities Contractor and that remaining with Infraco	On Street	Schedule 45	RL	UC	30/05/2012	INF CORR 8340	N/A	SCHEDULE 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	28/05/2012	CEC	28/05/2012		N/A - Schedule 45	N/A - Schedule 45						N/A - Schedule 45		
636	124	644	Off Street - Lockside Place	Twin Crossing at Lockside Avenue	Proximity of red blaes to existing pipes and valves are within DXE - 2m envelope	Off Street	Clause 80	SM	UC	22/05/2012	INF CORR 8332	15/06/2012	N	see TNC 636 Rev A	see TNC 636 Rev A	see TNC 636 Rev A	TBA	21/05/2012	CEC	21/05/2012	see TNC 636 Rev A	21/05/2012	INF CORR 8332						Y	80.15 TCO	
636.1	124	644.1	Off Street - Lockside Place	Twin Crossing at Lockside Avenue. Rev A includes signed TQ from Scottish Water. NOTE - TCO 571 and TCO 571 Rev A now withdrawn	Proximity of red blaes to existing pipes and valves are within DXE - 2m envelope	Off Street	Clause 80	SM	UC	25/06/2012	INF CORR 8359	25/06/2012	Y	5.11.2012	Included under Construction Total	80.15 TCO	TBA	01/06/2012	CEC	01/06/2012		01/06/2012	INF CORR 8359						CO	80.15 TCO	
636.2	124	571.2	Off Street - Lockside Place	Twin Crossing at Lockside Avenue. Rev A includes signed TQ from Scottish Water. NOTE - TCO 571 and TCO 571 Rev A now withdrawn	Proximity of red blaes to existing pipes and valves are within DXE - 2m envelope	Off Street	Clause 80	SM	UC	25/06/2012	INF CORR 8359	25/06/2012	Y	5.11.2012	Included under Construction Total	£37,151.60	TBA	01/06/2012	CEC	01/06/2012	£37,151.60	05/02/2013	INF CORR 8820		30/01/2013	05/02/2013			CO		
637	137		On Street	SAS Pedestrian Crossing	Client Instruction	On Street	Schedule 45	RL	CR - Client Request	24/05/2012	INF CORR 8336	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	28/05/2012	CEC	28/05/2012		N/A - Schedule 45	N/A -								

TMC No.	CO No.	Location	Description	Reason for Change	On Street / Off Street	Class / Instruction	EST Change	Change Category	Date TMC Issued	Letter Ref	Estimate	Returned NY	Date Estimate	Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved by CEC/TET	Approved 3rd Party	Agreed Cost for Contract Change	Date CO Issued	Date DRAFT TMC sent to BBS	Date DRAFT TMC returned by BBS	Date DRAFT TMC returned by BBS	TOO RETURNED NY/COSED OUT	Comments	
639.3	144	On Street	York Place - New C&D to complete traffic signalization design	TMC Design to allow construction to proceed.	On Street	Schedule 45	RL	GR	14/06/2012	NF COR 8835	N/A - Schedule 45	N/A - Schedule 45	13/06/2012	13/06/2012	N/A - Schedule 45	N/A - Schedule 45	TBA	13/06/2012	CEC							N/A - Schedule 45		
639.4	144	On Street	Progress with Brighton St Albany Street Traffic Signalization implementation of York Place	York Place - Rev D TMC implementation	On Street	Schedule 45	RL	GR	04/05/2012	NF COR 8835	N/A - Schedule 45	N/A - Schedule 45	03/05/2012	03/05/2012	N/A - Schedule 45	N/A - Schedule 45	TBA	03/05/2012	CEC							N/A - Schedule 45		
639.5	144	On Street	York Place - Change from Mass Barrier to Asat Variable	TMC requirements	On Street	Schedule 45	RL	UC	19/03/2012	NF COR 8835	N/A - Schedule 45	N/A - Schedule 45	19/03/2012	19/03/2012	N/A - Schedule 45	N/A - Schedule 45	TBA	19/03/2012	CEC							N/A - Schedule 45		
639.6	144	On Street	York Place TMC - Additional Signage	TMC requirements	On Street	Schedule 45	RL	GR	12/12/2011	NF COR 8831	N/A - Schedule 45	N/A - Schedule 45	10/12/2011	10/12/2011	N/A - Schedule 45	N/A - Schedule 45	TBA	10/12/2011	CEC							N/A - Schedule 45		
639.7	144	On Street	York Place TMC - Removal Signalized Junction at Albany St through St	TMC requirements	On Street	Schedule 45	RL	GR	07/02/2012	NF COR 8832	N/A - Schedule 45	N/A - Schedule 45	04/02/2012	04/02/2012	N/A - Schedule 45	N/A - Schedule 45	TBA	04/02/2012	CEC							N/A - Schedule 45		
640	140	Site Wide	Sign contract on Method of Recovery for Utility Materials	Method of Recovery for Insulation Premium	Site Wide	Class 80	SE	UC	30/05/2012	NF COR 8842	N/A	N	30/05/2012	30/05/2012	N/A	N/A	None	28/05/2012	CEC							CO	COST TRANSFER BETWEEN EEC AND BBS. EEC APPROVED TO CO	
641	147.204	On Street	On St - Reinforcement Change of Use to Train Stop station of York Place	Construction TMC	On Street	Schedule 45	RL	DC	12/06/2012	NF COR 8838	N/A	N	11/06/2012	11/06/2012	N/A	N/A	TBA	11/06/2012	CEC							Y		
641.1	147.224	On Street	On St - Following demolition of Old Exit of Existing Toilets at Cathedral LBS - New Build of Temporary	Construction TMC	On Street	Schedule 45	RL	DC	See TMC 641	See TMC 641	N/A	N	03/12/2012	03/12/2012	N/A	N/A	TBA	03/12/2012	CEC							Y		
642	178	On Street	On St - Approx 86m of outboard Track and associated temporary construction, drainage, road markings, Traffic Signs to provide space for Temporary Train Stop	Change of Scope for York Place	On Street	Schedule 45	RL	DC	14/06/2012	NF COR 8836	N/A - Schedule 45	N/A - Schedule 45	11/06/2012	11/06/2012	N/A - Schedule 45	N/A - Schedule 45	TBA	11/06/2012	CEC							N/A - Schedule 45		
643	148	Off Street	Edinburgh Gateway	Construction TMC	Off Street	Class 80	SL	DC	13/06/2012	NF COR 8848	N/A	N	13/06/2012	13/06/2012	N/A	N/A	TBA	13/06/2012	CEC							Y	Close 80.15 TO Usual	
643.1	148	Off Street	Edinburgh Gateway	Construction TMC	Off Street	Class 80	SL	DC	ISSUED AS TCO	ISSUED AS TCO	N/A	N	25/06/2012	25/06/2012	N/A	N/A	TBA	25/06/2012	CEC							Y	Close 80.15 TO Usual	
643.2	148	Off Street	Edinburgh Gateway	Progress with Edinburgh Gateway works	Off Street	Class 80	SL	DC	ISSUED AS TCO	ISSUED AS TCO	Y	Y	10/06/2012	10/06/2012	£3,288,814.46	£3,288,814.46	None	27/06/2012	CEC							CO	Now includes Design Code from previous TMCs	
644	150	On Street	On Street - On Street OLE poles	Construction TMC - Finalise part of Schedule E Exclusions	On Street	Class 80	RL	DC	27/06/2012	NF COR 8842	N/A - already provided	Y	26/06/2012	26/06/2012	N/A	N/A	TBA	25/06/2012	CEC							CO	AGREED PRIOR TO ISSUE. ANTICIPATE NO ISSUES. ALTHOUGH WILL NEED TO UP REV BECAUSE OF PROBLEMS ON CLASH WITH VERRY HOUSE ROOF.	
645	155, 161, 162, 163, 165, 166, 220	N/A	Outstanding Works	Client Instruction to meet 20th June deadline	On Street	Schedule 45	RL	GR	06/05/2012	NF COR 8846	N/A - Schedule 45	N/A - Schedule 45	11/05/2012	11/05/2012	N/A - Schedule 45	N/A - Schedule 45	TBA	11/05/2012	CEC								CO	URGENT ISSUE TMC. EMAIL ISSUED 7/6/12. UNDER COVER LETTER 6/06/2012.
646	149	On Street	On Street - Pricas St	Cabinet location for Street Lighting - Construction	On Street	Schedule 45	RL	DC	11/06/2012	NF COR 8842	N/A - Schedule 45	N/A - Schedule 45	11/06/2012	11/06/2012	N/A - Schedule 45	N/A - Schedule 45	TBA	11/06/2012	CEC							N/A - Schedule 45		
647	150	On Street	On Street	Design Change	On Street	Class 80	RL	DC	11/06/2012	NF COR 8838	N/A	Y	11/06/2012	11/06/2012	N/A	N/A	TBA	11/06/2012	CEC							Y	Close 80.15 TO Usual	
647.1	150	On Street	On Street	Design Change	On Street	Class 80	RL	DC	10/07/2012	NF COR 8848	N/A	Y	09/07/2012	09/07/2012	N/A	N/A	TBA	09/07/2012	CEC							Y	Close 80.15 TO Usual	
647.2	150	On Street	On Street	Design Change	On Street	Class 80	RL	DC	06/06/2012	NF COR 8848	N/A	Y	30/07/2012	30/07/2012	N/A	N/A	TBA	30/07/2012	CEC							Y	Close 80.15 TO Usual	
647.3	150	On Street	On Street	Design Change	On Street	Class 80	RL	DC	14/06/2012	NF COR 8850	N/A	Y	06/06/2012	06/06/2012	N/A	N/A	TBA	06/06/2012	CEC							Y	Close 80.15 TO Usual	
647.4	150	On Street	On Street	Design Change	On Street	Class 80	RL	DC	14/06/2012	NF COR 8850	N/A	Y	24/06/2012	24/06/2012	£2,888.24	£2,888.24	TBA	08/06/2012	CEC							CO	AGREED PRIOR TO ISSUE. ANTICIPATE NO ISSUES. ALTHOUGH WILL NEED TO UP REV BECAUSE OF PROBLEMS ON CLASH WITH VERRY HOUSE ROOF.	
647.5	150	On Street	On Street	Design Change	On Street	Class 80	RL	DC	14/07/2012	NF COR 8851	N/A	Y	05/07/2012	05/07/2012	N/A	N/A	TBA	05/07/2012	CEC							CO	URGENT ISSUE TMC. EMAIL ISSUED 7/6/12. UNDER COVER LETTER 6/06/2012.	
647.6	150	On Street	On Street	Design Change	On Street	Class 80	RL	DC	14/07/2012	NF COR 8851	N/A	Y	07/07/2012	07/07/2012	N/A	N/A	TBA	07/07/2012	CEC							CO	URGENT ISSUE TMC. EMAIL ISSUED 7/6/12. UNDER COVER LETTER 6/06/2012.	
648	151	On Street	On Street - Pricas St	Cabinet location for Street Lighting - Design	On Street	Class 80	RL	DC	14/06/2012	NF COR 8848	N/A	N	11/06/2012	11/06/2012	N/A	N/A	TBA	11/06/2012	CEC							Y	Close 80.15 TO Usual	
648	152	On Street	On Street - Pricas St Blister	Construction	On Street	Schedule 45	RL	GR	13/06/2012	NF COR 8848	N/A - Schedule 45	N/A - Schedule 45	13/06/2012	13/06/2012	N/A - Schedule 45	N/A - Schedule 45	TBA	13/06/2012	CEC							N/A - Schedule 45		
651	153	Off Street	Transpobox Installation and Floor element	Reduce Risk of Damage	Off Street	Class 80	SM	GR	22/06/2012	NF COR 8838	N/A	N	19/06/2012	19/06/2012	N/A	N/A	TBA	19/06/2012	CEC							SEE TCO 825		
651.1	153	On and Off Street	Transpobox Installation and Floor element - Provision of same	Reduce Risk of Damage	On and Off Street	Class 80	SM	GR	15/07/2012	NF COR 8850	N/A	Y	22/06/2012	22/06/2012	£13,021.75	£13,021.75	TBA	22/06/2012	CEC							CO	URGENT ISSUE TMC. EMAIL ISSUED 7/6/12. UNDER COVER LETTER 6/06/2012.	
651.2	153	On and Off Street	Transpobox Installation and Floor element - Provision of same	Reduce Risk of Damage	On and Off Street	Class 80	AS	GR	N/A - See TMC 651.1	N/A - See TMC 651.1	N/A	Y	22/06/2012	22/06/2012	£3,341.80	£3,341.80	TBA	25/06/2012	CEC							CO	URGENT ISSUE TMC. EMAIL ISSUED 7/6/12. UNDER COVER LETTER 6/06/2012.	
652	152	Off Street	Depot	Maintenance of the Depot Working Equipment	Off Street	Class 80	CL	GR	26/06/2012	NF COR 8828	N/A	Y	N/A	N/A	N/A	N/A	None	25/06/2012	CEC							CO	URGENT ISSUE TMC. EMAIL ISSUED 7/6/12. UNDER COVER LETTER 6/06/2012.	
653	156	On Street	On Street - York Place	Provide PFC Panels in DMV CAB format	On Street	Class 80	RL	DC	12/06/2012	NF COR 8846	N/A	N	09/06/2012	09/06/2012	£4,933.56	£4,933.56	N/A	18/06/2012	CEC							Y	TMC - TOC with frame, no length 7 requirement.	
654		On Street	On Street - York Place	Construction of the Depot Working Equipment	On Street	Class 80	RL	DC	26/06/2012	NF COR 8828	N/A	N/A	18/06/2012	18/06/2012	£4,933.56	£4,933.56	N/A	18/06/2012	CEC							N/A	URGENT ISSUE TMC. EMAIL ISSUED 7/6/12. UNDER COVER LETTER 6/06/2012.	

TMC No.	CD No.	Location	Description	Reason for Change	On Street / Off Street	Change Category	Change Owner	DC/UC/CR	Date TMC Issued	Letter Ref	Date	Date Estimate Returned NY	Date Estimate Returned NY	Estimate Value (Design)	Estimate Value (Construction)	Time Implications (Construction)	CE/ET/ET	Date Issued or Revised	Agreed Cost for Changes	Date Draft TMC sent to BBS	Date Draft TMC returned by BBS	Date Draft TCO returned by BBS	Comments		
655	135	Off Street - Murrayfield Train Stop	Additional CCTV for coverage - Installation. Call Only	Following installation of TMC, relocated from train stop platform to the ground floor requiring another CCTV to be placed to cover TMC.	Off Street	DC	DC	DC	19/07/2022	INF CD88 8458	08/08/2022	Y	08/08/2022	N/A	£1,158.00	TBA	CEC	08/07/2022	23/07/2022	INF CD88 8466	24/07/2022	CO			
656	134	On Street - Tramstop	Tramstop Signage Installation and Front Elevation - REFER TO TMC 661	Reduce Risk of Damage	On Street	CR	CR	CR	22/06/2022	INF CD88 8459	17/07/2022	N	25/06/2022	N/A	£6,135.80	SEE TMC 651	CEC	25/06/2022	SEE TMC 651	SEE TMC 651	SEE TMC 651	SEE TMC 651	SEE TO TMC 651. NEED MORE FOR OFF AND ON STREET TRAM STOP NOW UNSETTLED.		
657	135	On Street - Princess St	Scottish Water As Built Drawings	Client instruction to meet 20th June deadline	On Street	CR	CR	CR	22.6.12	INF CD88 8460	17/07/2022	Y	25/06/2022	N/A	N/A	TBA	CEC	25/06/2022	SEE TMC 651	22/07/2022	INF CD88 8460	23/07/2022	CO		
657.1	135	On Street - Princess St	Scottish Water As Built Drawings. TCO 592 Rev A, related to agree estimate submitted under TMC	Client instruction to meet 20th June deadline	On Street	CR	CR	CR	22.6.12	INF CD88 8460	17/07/2022	Y	29/06/2022	£1,271.18	N/A	TBA	CEC	08/07/2022	£1,271.18	N/A	08/07/2022	INF CD88 8460	08/07/2022	CO	
658	135	On Street - Shankwell Place	Shankwell Place Wall - De scope	Transfer Works to other	On Street	UC	UC	UC	15/08/2022	INF CD88 8461	N/A - Schedule 45	N/A - Schedule 45	13/08/2022	N/A - Schedule 45	N/A - Schedule 45	TBA	CEC	13/08/2022	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45			
659	175	On Street - Shankwell	Road Signage - Junction Major Phase/Manlius St	Road Signage - Junction Major Phase/Manlius St	On Street	CR	CR	CR	26/12/2022	INF CD88 8462	N/A - Schedule 45	N/A - Schedule 45	25/06/2022	N/A - Schedule 45	N/A - Schedule 45	None	CEC	25/06/2022	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45			
660	176	On Street - Princess St	Princess St - Traffic Management	Traffic Management/UPD4E	On Street	CR	CR	CR	28/12/2022	INF CD88 8412	N/A - Schedule 45	N/A - Schedule 45	03/07/2022	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	CEC	03/07/2022	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45			
660.1	176	On Street - Princess St	Princess St - Traffic Management. Rev A. maintenance of temporary CAT posts at Princess St tramstop	Maintenance Requirements for Temporary CAT posts.	On Street	CR	CR	CR	14/08/2022	INF CD88 8453	N/A - Schedule 45	N/A - Schedule 45	06/08/2022	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	CEC	06/08/2022	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45			
660.2	176	On Street - Princess St	Princess St - Traffic Management. Rev B removal of Princess St Warning Signs for Eyes	Maintenance Requirements for Temporary CAT posts.	On Street	CR	CR	CR	02/10/2022	INF CD88 8457	N/A - Schedule 45	N/A - Schedule 45	07/10/2022	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	CEC	07/10/2022	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45			
661		Off Street - Gogar round about Signage	Blank off this Tram Depot to on all signage associated with the Gogar Roundabout A88/89 through bypass interchange		Off Street	SM	SM	SM					03/07/2022				CEC	03/07/2022					ON HOLD. NEED FURTHER INFORMATION ON REASON		
662	169	Off Street - Section 7A	Eastfield Avenue - Topographical Survey	Carry out check on levels.	Off Street	CR	CR	CR	11/07/2022	INF CD88 8447	03/08/2022	Y	09/07/2022	N/A	N/A	TBA	CEC	09/07/2022	£2,386.35	£1,107,002	INF CD88 842	11/07/2022	CO	N/A	
662.1	169	Off Street - Section 7A	Eastfield Avenue - Topographical Survey	Carry out check on levels.	Off Street	CR	CR	CR	11/07/2022	INF CD88 8447	03/08/2022	Y	09/07/2022	£2,386.35	N/A	TBA	CEC	10/12/2022	£2,386.35	N/A	10/12/2022	INF CD88 840	10/12/2022	CO	N/A
663	121	Off Street - Depot	Precheck of Areas Fencing surrounding Mini Truck at Gogar Depot.	Prevent access to mini truck track during Train Testing and Commissioning.	Off Street	UC	UC	UC	16/07/2022	INF CD88 8454	N/A	Y	31.7.2022	N/A	£6,423.88	None	CEC	03/07/2022							
664	203	Off Street - Gogar Gate Access Road	Additional Area of High Friction Surfacing	Construction Works following Road Safety Audit	Off Street	DC	DC	DC	06/09/2022	INF CD88 8452	07/10/2022	Y	09/10/2022	N/A	£1,191 Rev A		CEC	03/09/2022	£1,191 Rev A	06/09/2022	INF CD88 852	06/09/2022	N		
664.1	203	Off Street - Gogar Gate Access Road	Additional Area of High Friction Surfacing. TCO 591 Rev A raised to agree change.	Construction Works following Road Safety Audit	Off Street	DC	DC	DC	08/07/2022	INF CD88 8454	08/10/2022	Y	09/10/2022	N/A	£3,186.34		CEC	22/10/2022	£3,186.34	08/11/2022	INF CD88 875	08/11/2022	CO		
665	184	On Street - Princess St	Removal of Princess Street Sign	Additional works required to decommission equipment required to facilitate the plug	On Street	UC	UC	UC	14/08/2022	INF CD88 8456	N/A - Schedule 45	N/A - Schedule 45	13/08/2022	N/A - Schedule 45	N/A - Schedule 45	TBA	CEC	13/08/2022	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45			
665.1	184	On Street - Princess St	Removal of Princess Street Sign - Rev A Advisory diversion signage for the closure of Gogar Gate. Signage to be replaced with appropriate sign and arrow pointing to Gogar St via the temporary bypass to West Road and Princess St.	Additional works required to decommission equipment required to facilitate the plug	On Street	UC	UC	UC	21/08/2022	INF CD88 8458	N/A - Schedule 45	N/A - Schedule 45	20/08/2022	N/A - Schedule 45	N/A - Schedule 45	TBA	CEC	20/08/2022							
665.2	184	On Street - Princess St	Removal of Princess Street Sign - Rev B Further works required east of plug.	Additional works required to decommission equipment required to facilitate the plug	On Street	UC	UC	UC	26/09/2022	INF CD88 8458	N/A - Schedule 45	N/A - Schedule 45	30/09/2022	N/A - Schedule 45	N/A - Schedule 45	TBA	CEC	30/09/2022							
666	173	Off Street - Section 5A	Provide a Pedestrian Gate next to the Vehicle access gate at the Scottal Depot.	Request to Provide Pedestrian Access.	Off Street	UC	UC	UC	19/07/2022	INF CD88 8468	14/08/2022	Y	09/10/2022	N/A	£4,925.64		CEC	16/07/2022	£4,925.64	19/07/2022	INF CD88 8468	19/07/2022	CO	N/A	
666.1	173	Off Street - Section 5A	Provide a Pedestrian Gate next to the Vehicle access gate at the Scottal Depot.	Request to Provide Pedestrian Access.	Off Street	UC	UC	UC	19/07/2022	INF CD88 8468	14/08/2022	Y	09/10/2022	N/A	£4,925.64		CEC	17/12/2022	£4,925.64	17/12/2022	INF CD88 842	17/12/2022	CO		
667	170	Off Street - S65 Wire	Call off S65 wire to be replaced to Network Rail Technical Queries and Interface Issues on the ETH.	Site work to start with design and interface issues on the ETH.	Off Street	UC	UC	UC	11/07/2022	INF CD88 8446	TIME CHARGE TMC	Y	07/08/2022	£3,456.99	N/A	TBA	CEC	09/07/2022							
667.1	170	Off Street - S65 Wire	Call off S65 wire to be replaced to Network Rail Technical Queries and Interface Issues on the ETH. Rev A - Update / agreed value to £1.5k.	Site work to start with design and interface issues on the ETH.	Off Street	UC	UC	UC	06/09/2022	INF CD88 8463	TIME CHARGE TMC	N		N/A	N/A	TBA	CEC	03/09/2022							
667.2	170	Off Street - S65 Wire	Call off S65 wire to be replaced to Network Rail Technical Queries and Interface Issues on the ETH. Rev B - Additional scope items to make traffic light.	Site work to start with design and interface issues on the ETH.	Off Street	UC	UC	UC	06/11/2022	INF CD88 8463	TIME CHARGE TMC	Y		£3,985.07	N/A	TBA	CEC	25/08/2022							
668	171	On Street - York Place	The scaling of infill works for Transfer to ScotRail.	Programme Migration and Code Engineering Proposed.	On Street	CR	CR	CR	11/07/2022	INF CD88 8449	10/08/2022	Y	09/09/2022	N/A - ABBEED	N/A	TBA	CEC	16/07/2022	£3,015,155.90	£1,107,002	INF CD88 849	11/07/2022	CO		
669	139	Off Street - Section 6	SDN Remedial Works - Roadcut at New Ingleton Lane	Baselid Following S65 diversion works	Off Street	UC	UC	UC	17/07/2022	INF CD88 8455	10/08/2022	Y	10/10/2022	N/A	£15,063.95	TBA	CEC	16/07/2022	16,063.95	18/11/2022	INF CD88 8497	18/11/2022	CO		
670	177	On Street - Princess Street Safety Buffer	SDS Response to S6A for Princess St	Response to enable EEC to undertake Road Safety Audit.	On Street	CR	CR	CR	06/08/2022	INF CD88 8448	04/09/2022	Y	04/09/2022	N/A	N/A	TBA	CEC	23/07/2022							
670.1	177	On Street - Princess Street Safety Buffer	SDS Response to S6A for Princess St. TCO 592 Rev A to agree estimate amount submitted under TMC	Response to enable EEC to undertake Road Safety Audit.	On Street	CR	CR	CR	06/08/2022	INF CD88 8448	04/09/2022	Y	04/09/2022	£1,030.71	N/A	TBA	CEC	08/07/2022	£1,030.71	N/A	08/07/2022	INF CD88 848	08/07/2022	CO	
671	197	Off Street - Soodial	Scottal Inward Car Park Security Fence	Prevent unauthorised access to car park.	Off Street	UC	UC	UC	23/07/2022			N	23/07/2022	N/A	N/A	TBA	CEC	23/07/2022							
672	207	On Street - Dramage Design	Review and revise Drage Design 00016, 17, 18, 22, 23 and 24 to show the impact of the proposed design on the current proposed design to allow the impact to be assessed and agreed.	Significant redesign needed within this area to allow the impact to be assessed and agreed.	On Street	UC	UC	UC	06/09/2022	INF CD88 8557	02/10/2022	N	27/08/2022	N/A	N/A	TBA	CEC	27/08/2022							
672.1	207	On Street - Dramage Design	Review and revise Drage Design 00016, 17, 18, 22, 23 and 24 to show the impact of the proposed design on the current proposed design to allow the impact to be assessed and agreed.	Significant redesign needed within this area to allow the impact to be assessed and agreed.	On Street	UC	UC	UC	06/09/2022	INF CD88 8557	02/10/2022	N	27/08/2022	N/A	N/A	TBA	CEC	27/08/2022							

TNC No.	PMC No.	TCO No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	TST Change Owner	Change Category DC/LG/CR/SR	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate Returned N/Y	Date Estimate Received	Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved By CEC/TST	Date Approved or Rejected	Agreed Cost for Approved Contract Change	Date TCO Issued	TCO Letter Ref	Date DRAFT TNC sent to BBS	Date DRAFT TNC returned by BBS	Date DRAFT TCO sent to BBS	Date DRAFT TCO returned by BBS	TCO RETURNED N/Y/CLOSED	Comments			
672.2	207	608.2	On Street - Drainage Design	Review and revise Dig's ULES0130-03-DNE 00016, 17, 18, 22, 23 and 24 to show the layout required to avoid utilities. Rev B TCO with n/exceed value of £ 18k, to take to Phase 2.	Significant utilities located within this area impacting the current proposed design.	On Street	Clause 80	RL	UC	See TNC 672 - TCO 608	See TNC 672 - TCO 608	See TNC 672 - TCO 608	N			N/A	TBA	12/11/2012	CEC	12/11/2012		14/11/2012	INF CORR 8768									
673	76	598	She Wilde	Cancel Order for OLE poles required for section Secondary Phase 1a	Track no longer goes beyond York Place	Off Street	Clause 80	GE	CR	13/08/2012	INF CORR 8502	N/A - Estimate already provided	N/A	25.7.2012	N/A	-£41,788.00	None	13/07/2012	CEC	23/07/2012	-£41,788.00	13/08/2012	INF CORR 8502						CO			
674	169	590 Rev A	Off street	Topographical survey at Eastfield avenue - DESIGN	Provide CAD and pdf drawings	Off Street	Clause 80	SL	UC- Unforeseen Circumstances	06/09/2012	INF CORR 8490	30/09/2012	Y	09/10/2012	SEE TNC 662	N/A	TBA	30/07/2012	CEC	30/07/2012	SEE TNC 662	SEE TNC 662	22/02/2013	INF CORR 8956			19/02/2013	22/02/2013	CO	TCO issued with agreed value, also covers TNC 662		
675	192	648	Scotrail Depot.	Remove the concrete around the water meter at the Scotrail Depot.	Obtain Scottish Water approval and sign off the asset	Off Street	Clause 80	SL	UC	14/08/2012	INF CORR 8513	07/09/2012	Y	12/10/2012	N/A	£12,507.35	n/a	06/08/2012	CEC	06/08/2012	£12,507.35	22/02/2013	INF CORR 8956			19/02/2013	22/02/2013	CO				
676	194		On Street - York Place	Provide Drawing to accommodate works at Lord Bodoss Bar	CEC agreed remedial /improvement works to Lord Bodoss Bar	On Street	Clause 80	RL	CR	17/08/2012	INF CORR 8527	13/09/2012			N/A		06/08/2012	CEC	06/08/2012													
677	183		On Street - Lansdowne Crescent	Place arrange to have 20mph roundels placed on Lansdowne Crescent	Advisory 20 mph speed restriction	On Street	Schedule 45	RL	CR	14/08/2012	INF CORR 8503	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	06/08/2012	CEC	06/08/2012		N/A - Schedule 45	N/A - Schedule 45							N/A - Schedule 45		
678	182		York Place TM	Temporary Traffic Management Design to keep Bus Station Access Open	Assessing impact on Tram Project of keeping access to the Bus Station open.	On Street	Schedule 45	RL	CR	14/08/2012	INF CORR 8505	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	13/08/2012	CEC	13/08/2012		N/A - Schedule 45	N/A - Schedule 45								N/A - Schedule 45	
678.1	182		York Place TM	Temporary Traffic Management Design to keep Bus Station Access Open. Rev A Two-way access for peak Christmas shopping period	Assessing impact on Tram Project of keeping access to the Bus Station open.	On Street	Schedule 45	RL	CR	21/08/2012	INF CORR 8528	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	20/08/2012	CEC	20/08/2012		N/A - Schedule 45	N/A - Schedule 45								N/A - Schedule 45	
678.2	182		York Place TM	Temporary Traffic Management Design to keep Bus Station Access Open. Rev B Commence with any traffic management enabling and implementation works	Clarify traffic modelling requirement	On Street	Schedule 45	RL	CR	04/09/2012	INF CORR 8552	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	03/09/2012	CEC	03/09/2012		N/A - Schedule 45	N/A - Schedule 45								N/A - Schedule 45	
678.3	182		York Place TM	Temporary Traffic Management Design to keep Bus Station Access Open. Rev C relates to suggestions received from Bus Station Manager	Suggestions from Bus Station Manager	On Street	Schedule 45	RL	CR	13/09/2012	INF CORR 8576	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	10/09/2012	CEC	10/09/2012		N/A - Schedule 45	N/A - Schedule 45								N/A - Schedule 45	
679	181	601	Depot	UK Non- Compliance	Prevent Water Stagnating	Off Street	Clause 80	SM	UC	14/08/2012	INF CORR 8508	07/09/2012	Y	29/10/2012	0	£0.00	None	13/08/2012	CEC	13/08/2012	TCO issued INF CORR 8779	14/08/2012	INF CORR 8508	n/a	N/A	N/A	N/A	N/A	Y	revised TCO with zero value for CEC approval 05/11/2012		
679.1	181	601 Rev A	Depot	UK Non- Compliance	Prevent Water Stagnating	Off Street	Clause 80	SM	UC	14/08/2012	INF CORR 8508	07/09/2012	Y	29/10/2012	0	£0.00	None	13/08/2012	CEC	13/08/2012	£0.00	14/08/2012	INF CORR 8508	n/a	N/A	N/A	N/A	N/A	CO			
680	180		On Street - Coates Crescent	Bus running single lane	Stakeholder management	On Street	Schedule 45	RL	CR	13/08/2012	INF CORR 8510	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	13/08/2012	CEC	13/08/2012		N/A - Schedule 45	N/A - Schedule 45								N/A - Schedule 45	
681	600		On Street - Hoarding Design	Provide Hoarding Design for York Place	Design for Crumwell to Cranstree													13/08/2012	CEC	13/08/2012											TNC TO BE WITHDRAWN COVERED UNDER TNC 630 REV B	
682	179		On Street	Type 2 Diversions - Street Lighting, Road Signage & Traffic Signals Scope	Avoid disruption to Infraco as a result of Utilities conflicts associated with the above scope.	On Street	Schedule 45	RL	UC	14/08/2012	INF CORR 8507	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	13/08/2012	CEC	13/08/2012		N/A - Schedule 45	N/A - Schedule 45								N/A - Schedule 45	
683	604		Off - Street	Trial holes to locate 125mm diameter pipe at Depot	To confirm to SW the pipe is within DKE 2 and not in the route of track / OLE foundations	Off Street	Clause 80	SM	UC	18/09/2012	INF CORR 8582	12/10/2012	N		N/A			13/08/2012	CEC	13/08/2012	TCO FOR CEC APPROVAL 20.8.12	18/09/2012	INF CORR 8582					Y	80.15 tCO			
683.1	214	604.1	Off - Street	Trial holes to locate 125mm diameter pipe at Depot	To confirm to SW the pipe is within DKE 2 and not in the route of track / OLE foundations	Off Street	Clause 80	SM	UC	18/09/2012	INF CORR 8582	12/10/2012	Y	11/01/2013	£0.00	£3,348.06	None	21/01/2013	CEC	21/01/2013	£3,348.06	22/01/2013	INF CORR 8880			22/01/2013	22/01/2013	CO				
684	195	621	Off - Street	Damaged utility trough cover slabs	Replace the damaged slabs caused by CAF delivery wagon	Off Street	Clause 80	CL	UC	20/08/2012	INF CORR 8524	13/09/2012	Y	09/10/2012	N/A	£938.27	None	13/08/2012	CEC	13/08/2012	£938.27	23/10/2012	INF CORR 8701	N/A	N/A	22/10/2012	22/10/2012	CO				
685	197	603	Lindsay Road	Provide information on Lindsay Road	Enable completion of Lindsay Road by CEC	Off Street	Clause 80	MA	CR	21/08/2012	INF CORR 8531	14/09/2012	Y	05/10/2012	£7,090.34	N/A	None	13/08/2012	CEC	13/08/2012	SEE TCO 603 REV	21/08/2012	INF CORR 8531					Y				
685.1	197	603.1	Lindsay Road	Provide information on Lindsay Road. TCO 603 Rev A to agree Change	Enable completion of Lindsay Road by CEC	Off Street	Clause 80	MA	CR	see TNC 685	see TNC 685										£7,090.34	20/11/2012	INF CORR 8781						CO			
686	200		On Street	Alter kerbs next CEC Connection Manhole	Manhole Cover and frame impact the kerblines	On Street	Schedule 45	RL	UC	04/09/2012	INF CORR 8544	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	13/08/2012	CEC	13/08/2012		N/A - Schedule 45	N/A - Schedule 45								N/A - Schedule 45	
687	202		On Street	Revision to Appendix 11/1 for Kerb Type	Introduction of new Scottish Whinstone Kerb	On Street	Schedule 45	RL	UC	06/09/2012	INF CORR 8558	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	27/08/2012	CEC	27/08/2012		N/A - Schedule 45	N/A - Schedule 45								N/A - Schedule 45	
688	204		On Street	De-scope of footways outside Atholl & Coates Crescent	Value engineering - de scoping work	On Street	Schedule 45	RL	CR	06/09/2012	INF CORR 8561	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	03/09/2012	CEC	03/09/2012		N/A - Schedule 45	N/A - Schedule 45								N/A - Schedule 45	
689	213	609	On street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Ducting and Chambers to avoid utilities. TCO with n/exceed value of £ 23k.	Significant utilities located within this area impacting the current IFC design.	On Street	Clause 80	RL	UC	13/09/2012	INF CORR 8583	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A	TBA	27/08/2012	CEC	27/08/2012	TCO for CEC approval on 10.9.12	13/09/2012	INF CORR 8583					Y			
689.1	213	609.1	On street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Ducting and Chambers to avoid utilities. TCO with n/exceed value of £ 23k.	Significant utilities located within this area impacting the current IFC design.	On Street	Clause 80	RL	UC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A	TBA				TCO for CEC approval on 8.10.12	11/10/2012	INF CORR 8674	N/A	N/A	08/10/2012		Y				
689.2	213	609.2	On street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Ducting and Chambers to avoid utilities. Rev B n/exceed value of £ 56k, to take to Phase 2.	Significant utilities located within this area impacting the current IFC design.	On Street	Clause 80	RL	UC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A	TBA	12/11/2012	CEC	12/11/2012	TCO for CEC approval on 8.10.12	14/11/2012	INF CORR 8769					Y				
689.3	213	609.3	On street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Ducting and Chambers to avoid utilities. Rev C n/exceed value of £ 66k, to deal with volume of TCO's	Significant utilities located within this area impacting the current IFC design.	On Street	Clause 80	RL	UC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A	TBA	21/01/2013	CEC	21/01/2013	TCO for CEC approval on 21.1.13	24/01/2013	INF CORR 8896					Y				
689.4	213	609.4	On street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Ducting and Chambers to avoid utilities. Rev D n/exceed value of £ 96k, to deal with volume of TCO's	Significant utilities located within this area impacting the current IFC design.	On Street	Clause 80	RL	UC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A - Time Charge TNC	N/A	TBA	11/02/2013	CEC	11/02/2013	TCO for CEC approval on 11.2.13	12/02/2013	INF CORR 8940					Y				



TNC No.	PMC No.	SCO No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	TST Change Owner	Change Category DC/UC/CR/SR	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate Returned N/Y	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved By CEC/TST	Date Approved or Rejected	Agreed Cost for Approved Contract Change	Date TCO Issued	TCO Letter Ref	Date DRAFT TNC sent to BBS	Date DRAFT TNC returned by BBS	Date DRAFT TCO sent to BBS	Date DRAFT TCO returned by BBS	TCO RETURNED N/Y/CLOSED OUT	Comments			
721	234	628	Depot to Airport	Installation of section isolators on the MTT.	Ensure that training and other operational requirements of both CAF and Edinburgh Trams (ET) can be integrated with BBS Test & Commissioning requirements.	Off Street	Clause 80	CL	UC	19/11/2012	INF CORR 8790	13/12/2012	N				TBA	19/11/2012	CEC	19/11/2012	80.15 TCO Issued	19/11/2012	INF CORR 8790						Y	80.15 TCO		
721.1	234	628.1	Depot to Airport	Installation of section isolators on the MTT.	Ensure that training and other operational requirements of both CAF and Edinburgh Trams (ET) can be integrated with BBS Test & Commissioning requirements.	Off Street	Clause 80	CL	UC	19/11/2012	INF CORR 8790	13/12/2012	Y				TBA	07/01/2013	CEC		£25,919.00	21/01/2013	INF CORR 8860						CO			
722	248		On Street	De-scope Bus Shelters, Bus Trainers and associated power supplies	De-scope as work now by others	On Street	Schedule 45	RL	UC	18/12/2012	INF CORR 8838	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	17/12/2012	CEC	17/12/2012		N/A - Schedule 45	N/A - Schedule 45	22/10/2012					N/A - Schedule 45			
723	236	641	On Street	Traffic Management, Princes St. Road Safety Audit for release of full Princes St plug.	Road Safety Audit to enable Princes St to fully re-open	On Street	Clause 80	RL	CR	19/11/2012	INF CORR 8776	N/A	Y	10/01/2013	£674.50	N/A	TBA	19/11/2012	CEC	19/11/2012	TCO for CEC approval 28/1/13	18/02/2013	INF CORR 8949						CO			
724	235	629	Off Street	Murrayfield SW pipe - provide design calculations	SW have rejected the pipe which currently sits under the embankment	Off Street	Clause 80	SM	UC	21/11/2012	INF CORR 8794	17/12/2012	N	TCO 629 Rev A	TCO 629 Rev A	TCO 629 Rev A	TBA	19/11/2012	CEC	19/11/2012	see TCO 629 Rev A	21/11/2012	INF CORR 8794						CO			
724.1	235	629.1	Off Street	Murrayfield SW pipe - provide design calculations	SW have rejected the pipe which currently sits under the embankment	Off Street	Clause 80	SM	UC	20/11/2012	INF CORR 8794	N/A	Y	25/01/2013	£3,265.93	N/A	N/A	11/02/2013	CEC	11/02/2013	£3,265.93	12/02/2013	INF CORR 8937			11/02/2013			CO			
<del>724.2</del>	<del>235</del>	<del>629.2</del>	<del>Off Street</del>	<del>Murrayfield SW pipe - provide over-pump facilities - TNC withdrawn 20.11.12</del>	<del>SW have rejected the pipe which currently sits under the embankment</del>	<del>Off Street</del>	<del>Clause 80</del>	<del>SM</del>	<del>UC</del>	<del>20/11/2012</del>	<del>INF CORR 8794</del>	<del>N/A</del>	<del>N</del>	<del>25/01/2013</del>	<del>£3,265.93</del>	<del>N/A</del>	<del>N/A</del>	<del>11/02/2013</del>	<del>CEC</del>	<del>11/02/2013</del>	<del>£3,265.93</del>	<del>12/02/2013</del>	<del>INF CORR 8937</del>			<del>11/02/2013</del>			<del>CO</del>	<del>TNC withdrawn - agreement made that pump no longer required</del>		
725	196	631	On Street	Provision of DWG drawings - Drainage	As Built for handover to Scottish Water	On Street	Clause 80	RL	UC	27/11/2012	INF CORR 8798	20/12/2012	Y	09/12/2012	£590.86	N/A	None	26/11/2012	CEC	26/11/2012	see TCO 631 Rev A	26/11/2012	INF CORR 8798						CO			
725.1	196	631.1	On Street	Provision of DWG drawings - Drainage. Rev A to agree TCO.	As Built for handover to Scottish Water	On Street	Clause 80	RL	UC	see TNC 725	see TNC 725	see TNC 725	Y	see TNC 725	see TNC 725	N/A	None	see TNC 725	CEC	see TNC 725	£590.86	18/02/2013	INF CORR 8948						CO			
726	249	637	Off Street	Murrayfield thistle	Removal of thistle for commercial saving	Off Street	Clause 80	SM	CR	07/12/2012	INF CORR 8806	14/01/2013	Y	10/01/2013	N/A	-£6,120.10	None	03/12/2012	CEC	04/12/2012	-£6,120.10	22/01/2013	INF CORR 8888	04/12/2012	05/12/2012	22/01/2013	22/01/2013	CO	TNC issued			
727			Off Street	Roseburn staircase	Removal of staircase which was to be used for wheelchair access	Off Street	Clause 80	SM	CR	N/A	N/A	N/A	N	N/A	N/A	N/A	N/A	04/12/2012	CEC	04/12/2012		04/12/2012	04/12/2012							Following BBS comments on the DRAFT TNC - this TNC will not be issued as there isn't a saving due to fabrication of staircase almost complete.		
728	245		On Street	Pedestrian Management Update	Pedestrian Management Update	On Street	Schedule 45	RL	CR	13/12/2012	INF CORR 8614	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	10/12/2012	CEC	10/12/2012		N/A - Schedule 45	N/A - Schedule 45	04/12/2012						N/A - Schedule 45		
729	246		On Street	Princes St/South St Andrew St - Traffic Light Alterations (now transferred to Clause 80, see TNC 729 Rev A)	Traffic Light Conflict with Pedestrian Crossing	On Street	Schedule 45	RL	CR	13/12/2012	INF CORR 8815	18/01/2013	N	Changed from Clause 80 to	N/A - Schedule 45	N/A - Schedule 45	N/A	10/12/2012	CEC	10/12/2012		N/A - Schedule 45	N/A - Schedule 45	04/12/2012								
729.1	246		On Street	Princes St/South St Andrew St - Traffic Light Alterations	Up Rev to progress to construction as Design now complete.	On Street	Schedule 45	AS	CR	23/01/2013	INF CORR 8883	N/A - Schedule 45	N/A	Changed from Clause 80 to	N/A - Schedule 45	N/A - Schedule 45	N/A	21/01/2013	CEC	21/01/2013		N/A - Schedule 45	N/A - Schedule 45	04/12/2012								
730	247		On Street	De-scope Tram Duict Crossing at Haymarket	Works over live carriageway with high risk of conflict with utilities	On Street	Schedule 45	RL	CR	12/12/2012	INF CORR 8812	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	10/12/2012	CEC	10/12/2012		N/A - Schedule 45	N/A - Schedule 45	04/12/2012								
731		633	Off Street	Murrayfield SW pipe - CAD drawing to allow McNicholas to mark up the position on the sewer	SW have rejected the pipe which currently sits under the embankment	Off Street	Clause 80	SM	UC	N/A	N/A	N/A	N	N/A	N/A	N/A	N/A	10/12/2012	CEC	10/12/2012		N/A - Schedule 45	N/A - Schedule 45								80.15 TCO approved by CEC BUT no longer required so NOT issued	
732	253		Off Street	Roseburn Street Road build up - de-scope	Infraco scope of Works as it does not meet the future traffic value (mva) as required in the Contract Specification.	Off Street	Clause 80	SM	CR	22/01/2013	INF CORR 8887	14/02/2013	N		N/A	N/A	N/A	17/12/2012	CEC	10/12/2012		N/A - Schedule 45	N/A - Schedule 45								TNC letter ref INF CORR 8887 22-01-2013	
733	248		On Street	Palmerston Place/West Maitland St/Torphichen Pl - Tactile Paving	Define Edge of carriageway	On Street	Schedule 45	RL	CR	09/01/2013	INF CORR 8848	N/A - Schedule 45	N	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	07/01/2013	CEC	07/01/2013		N/A - Schedule 45	N/A - Schedule 45	04/12/2012								
734	250		On Street	West Maitland Street/Manor Place Traffic Signals	Callers found in footway affect position of lighting columns	On Street	Schedule 45	RL	CR	09/01/2013	INF CORR 8853	N/A - Schedule 45	N		zero	none	07/01/2013	CEC	07/01/2013	zero	19/04/2013	INF CORR 9059	04/12/2012			15/04/2013					zero cost TCO issued	
735	251		On Street	Section 10, Wall at Sandanger Corner/Hope St - Materials	Achieve consistency of appearance at each location	On Street	Schedule 45	RL	CR	17/01/2013	INF CORR 8877		N		N/A		N/A	14/01/2013	CEC	14/01/2013		N/A - Schedule 45	N/A - Schedule 45	04/12/2012								
736	262	642	On Street	Road Markings For Bus Stops and Loading Bays on Shandwick Place	Update on bus shelters and loading restrictions	On Street	Clause 80	RL	CR	05/02/2013	INF CORR 8922	01/03/2013					N/A	21/01/2013	CEC	28/01/2013	TCO for CEC approval 28/1/2013	05/02/2013	INF CORR 8922								Y	
737		635	Off Street	Lower BT chambers at South Gyle to sit flush with ground level	Transfer of work to McNicholas	Off Street	Clause 80	SM	CR	21/02/2013	INF CORR 8883	n/a	n/a	n/a	£0	-£37,869.94	None	14/01/2013	CEC	14/01/2013	-£37,869.94	21/01/2013									CO	
738	255		On Street	De-scope Site Clearance Items	De-scope works	On Street	Schedule 45	RL	CR	17/01/2013	INF CORR 8874	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	14/01/2013	CEC	14/01/2013		N/A - Schedule 45	N/A - Schedule 45									
739	258		On Street	Dublin St Steps	Changes to reduce extent of utility work required.	On Street	Schedule 45	RL	CR	29/01/2013	INF CORR 8911	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	21/01/2013	CEC	21/01/2013		N/A - Schedule 45	N/A - Schedule 45	04/12/2012								
740	256		On Street	Haymarket Island	Reduce the level of diversion/lowering of existing utilities	On Street	Schedule 45	RL	CR	23/01/2013	INF CORR 8892	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	21/01/2013	CEC	21/01/2013		N/A - Schedule 45	N/A - Schedule 45	04/12/2012								
741	260	647	On Street	Street Lighting poles	Design support structure to light pole will clash with utilities	On Street	Schedule 45	RL	CR	05/02/2013	INF CORR 8923	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	21/01/2013	CEC	21/01/2013		08/02/2013	INF CORR 8929									
741.1	260		On Street	Street Lighting poles	Design support structure to light pole will clash with utilities. Rev A to TNC to change to custom fit.	On Street	Schedule 45	RL	CR	11/03/2013	INF CORR 8993	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	04/03/2013	CEC	04/03/2013		N/A - Schedule 45	N/A - Schedule 45	04/12/2012								
742	264	644	Off Street	South Gyle Junction	Design works associated with reinstating the junction	Off Street	Clause 80	SM	CR	12/02/2013	INF CORR 8936	07/03/2013						28/01/2013	CEC	28/01/2013		N/A - Schedule 45	N/A - Schedule 45	30/01/2013			30/01/2013				Y	
743			Off Street	Gogar Depot road re-construction	Infraco have de-scoped road spec due to lack of space from bridge deck	Off Street	Clause 80	SM	CR									21/01/2013	CEC	21/01/2013						22/01/2013						
744	261	638	Off Street	Carricknowe Golf Course - flooding	Filter drain across the golf course to connect to existing drainage network	Off Street	Clause 80	SM	CR	08/02/2013	INF CORR 8932	06/03/2013						28/01/2013	CEC	28/01/2013		08/02/2013	INF CORR 8932	30/01/2013							Y	
745			Off Street	Remove buff coloured HFS from Carricknowe Bridge and Edinburgh Park Viaduct	No technical requirement for surfacing at these locations. VE opportunity	Off Street	Clause 80	SM	CR									28/01/2013	CEC	28/01/2013												
746	271	643	Off Street	Undertake impregnated prism works at Murrayfield Tramstop	Nil cost	Off Street	Clause 80	SM	CR	04/03/2013	INF CORR 8972	n/a	n/a	n/a	nil	nil	n/a	28/01/2013	CEC	28/01/2013	£0.00	05/03/2013	INF CORR 8972	30/01/2013							CO	
747	263		On Street	Princes St, Tram Stop Remedials	Nil cost	Off Street	Clause 80	SM	CR	07/02/2013	INF CORR 8924	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	04/02/2012	CEC	04/02/2012												
748	257	645	Off Street	Depot Stabling area - infaced reinforcement	Increase the electrical supply capacity in depot stabling sidings, additional power cables between Depot Sub station and Infraco disconnectors - to allow the power up of more trams at one time for maintenance works	Off Street	Clause 80	SM	SR	12/02/2013	INF CORR 8939	n/a - already confirmed by letter nil value	n/a - already confirmed by letter nil value	n/a - already confirmed by letter nil value	N/A	nil	None	11/02/2013	CEC	11/02/2013	nil	12/03/2013	INF CORR 8939	12/02/2013			12/02/2013				CO	
749	265		On Street	De-scope of Footway Works outside Haymarket Station	Agreement on interface with Network Rail.	On Street	Schedule 45	MM	UC	21/02/2013	INF CORR 8953	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	18/02/2013	CEC	18/02/2013		N/A - Schedule 45	N/A - Schedule 45	04/12/2012								
750	203	648	Off Street	Gogar Castle Access Road - Additional HFS and road safety signage	Works additional to RSA	Off Street	Clause 80	SM	SR	22/02/2013	INF CORR 8955	N/A	Y	16/01/2013	£654	£5,628.03	N/A	18/02/2013	CEC	18/02/2013	£6,282.30	22/02/2013	INF CORR 8955			19/02/2013				CO		
751	266	653	Off Street	Gogarburn Hoarding	Removal of hoarding left in place by MUDFA	Off Street	Clause 80	SM	SR	22/02/2013	INF CORR 8954	19/03/2013	N				18/02/2013	CEC	18/02/2013		05/01/2013	INF CORR 8982	19/02/2013							Y	80.15 TCO to CEC for approval 04/03/2013	
751.1	266		Off Street	Gogarburn Hoarding	Removal of hoarding left in place by MUDFA	Off Street	Clause 80	SM	SR	22/02/2013	INF CORR 8954	19/03/2013	Y	09/04/2013	N/A	£2,468.10	N/A	15/04/2013	CEC	15/04/2013	£2,468.10	18/04/2013	INF CORR 9056	15/04/2013								

TMC No.	PMC No.	ECO No.	Location	Description	Reason for Change	On Street / Off Street	Clause 45 / Schedule 45 Instruction	EST Change Owner	Change Category DC/UC/UC/ER	Date TMC Issued	Letter Ref	Date Estimate Due	Estimate Returned NY	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved by CEZ/TET	Date Approved or Rejected	Agreed Cost for Change	Date ECO Issued	TOT Letter Ref	Date DRAFT TMC sent to BIS	Date DRAFT TMC returned by BIS	Date DRAFT TCO sent to BIS	Date DRAFT TCO returned by BIS	TOC RETURNED NY/CLOSED OUT	Comments	
762		556	York Place to Newbarin	Unit junctions (ICT 21 & 25)	Junctions not required.	York Place to Newbarin	Clause 80	RL	DC	15/04/2013	NF CD08 9052	N/A	Y	09/04/2013	N/A	-£118,995.00	N/A	15/04/2013	15/04/2013	15/04/2013	£118,995.00	15/04/2013	NF CD08 9054	15/04/2013	15/04/2013	15/04/2013				
763		557	Stn Walk	Sprink	Finalize proposals for Sprink	Stn Walk	Clause 80	RL	DC	15/04/2013	NF CD08 9055	N/A	Y	09/04/2013	N/A	£118,995.00	N/A	15/04/2013	15/04/2013	15/04/2013	£118,995.00	15/04/2013	NF CD08 9055	15/04/2013	15/04/2013	15/04/2013				
764			Edinburgh Gateway	Describe in Edinburgh Gateway	Inspect fuel connection (re-impedance) and partial de-commissioning	Off Street	Clause 80	AS	DC																					
765			Off Street	Addition of signage requirements along the railway corridor	Network Rail requirement to install security cameras	Off Street	Clause 80	AS	SR	08/04/2013	NF CD08 9013					£27,000.00		08/04/2013	ECC	08/04/2013									80.15 ECO	
765.1			Off Street	Additional fencing requirements along the railway corridor	Network Rail requirement to install security cameras	Off Street	Clause 80	AS	SR	08/04/2013	NF CD08 9013					£27,000.00		08/04/2013	ECC	08/04/2013									80.15 TCO revised drawing issued following NWR agreement	
766			On Street	Change to barrier specification for wall mounted floodlights	The situation was not packed for long term storage and as such requires re-packing to protect for potential future use.	Stn Walk	Clause 80	AS	UC									15/04/2013												
767			Stn Walk	Understate a risk prior to opening	Understate a risk prior to opening	Stn Walk	Clause 80	AS	DC									22/04/2013												CANCELLED - BBS will undertake the report in time for SAS re-opening
768		663	St Andrew Square	Road barrier St Andrew Str / South Princes St	Leave two barriers in place to prevent cars parking in the affected area.	On Street	Clause 80	AS	DC									22/04/2013												CANCELLED - BBS will undertake the report in time for SAS re-opening
768			St Andrew Square	Road barrier St Andrew Str / South Princes St	Leave two barriers in place to prevent cars parking in the affected area.	On Street	Clause 45	AS	UC									29/04/2013												CANCELLED - BBS will undertake the report in time for SAS re-opening

## Appendix 4 – Risk Register





Edinburgh Tram Project Risk Register

Table with columns: Risk ID, Risk Category, Risk Description, Effect/Impact, Risk Owner (individual), Status, Level, Probability - C, Risk Impact - Current, Risk Impact - Potential, Risk Level, Risk Response Planning, and Risk Level. Rows include risks like 'Loss of confidence, loss of media and political support', 'Public inquiry called onto continuation', 'Possible outstanding information from Operator/GAF/BBS to enable commissioning', etc.

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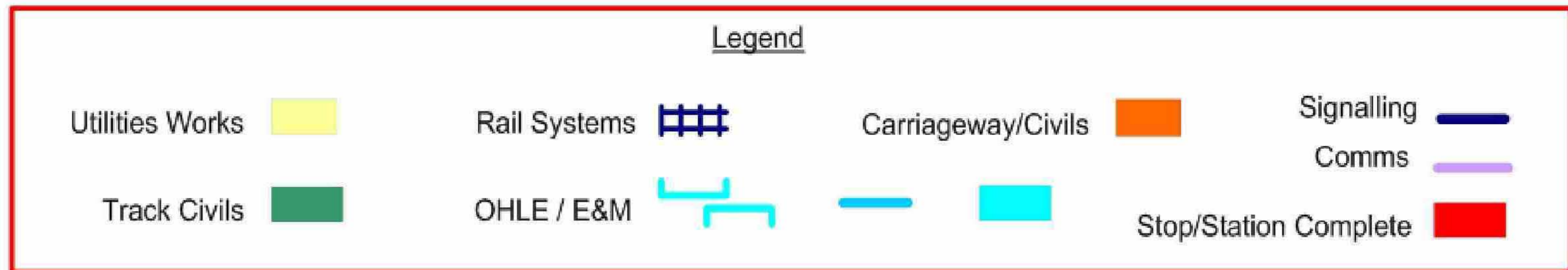
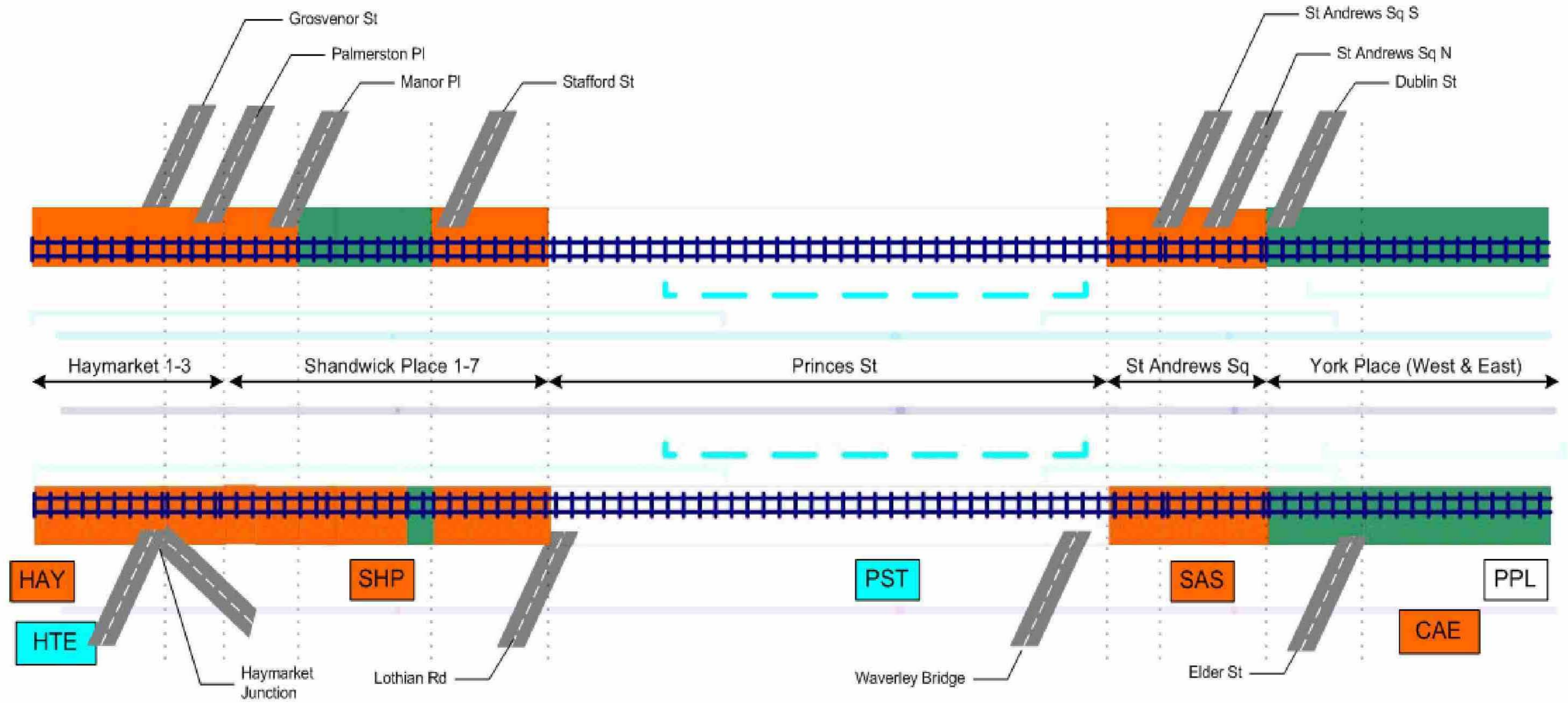
Risk ID	Cause	Risk Description	Effect / Impact	Risk Owner (individual)	Status	Level	RISK ANALYSIS - Pre Mitigated					RISK RESPONSE PLANNING					RISK ANALYSIS - Post Mitigated										
							Probability - C		Risk Impact - Current			Risk Score	Risk Level	Mitigating Actions (Client/T&T Measures)	Action Owner	Start Date	Probability - C		Risk Impact - Current			Risk Score	Risk Level				
							Probability Score	Cost Impact Score	Time Impact Score	Envir. Impact	H&S Impact						Reputation Impact	Probability Score	Cost Impact Score	Time Impact Score	Envir. Impact			H&S Impact			
R052	Network Rail cancels possession, inefficient use of possession or over run	Delay to completion of project due to Network Rail cancellation of Possessions or BBS overrun or inefficient use of possession	Time and cost impacts and additional requirements for possessions	BBS/CEC/T&T	Shirley Murch	Active	Construction - Off Street	3	2	2				6	AMBER	(1) BBS to manage construction to avoid any overrun possessions (2) Alternative design / construction methodology being investigated to avoid NI possessions		Asap	2	1	2				1	4	GREEN
R071	OfCOM provided frequencies that interfere with National Air Traffic Control (NATS). OfCOM has to provide suitable frequencies for Gogar Radio that don't interfere with NATS	Impact on Tram commissioning due to missing tram radio coverage	If suitable frequencies cannot be made available, Section B will not be achieved as envisaged, i.e. T&G of 5 Trains Utilising the equipment based on frequencies provided by OfCOM	BBS/CEC/T&T	William Delaney & Shirley Murch	Active	Construction	3	1	2	0	1	1	6	AMBER	(1) Apply for new frequencies from Ofcom (2) Consider alternative solutions if no alternative frequencies available (3) Temporary solution to be implemented to achieve Section B Completion by alternative means of communication (4) After re-licensing NATS have confirmed that there are no interference issues with their equipment when transmitting with reduced power and have given permission to continue using the original frequencies provided they have the right to raise out of range to stop using them if they are subsequently found to cause interference	(1) Assist BBS in resolving frequencies / equipment with OfCom / NATS	Ongoing	2	1	2	0	1	1	4	GREEN	
ED095	Tram system issues	Failure of key Tram testing during commissioning	Delay to tram availability to test on track	CAF	William Delaney	Active	Construction	3	1	2				6	AMBER		Tram inspector agreement signed, inspections being carried out in line with contractual requirements and good progress to date		2	1	2				2	4	GREEN
ED113	Major Local or UK events	Disruption due to security increases or accommodation of major local or UK events (e.g.olympics etc)	Additional delays	CEC	Rob Leach	Active	Construction	2	1	1	1	1	2	4	GREEN		Monitor potential events & security levels		2	1	1	1	1	2	4	GREEN	
R046	General delay to programme caused by BBS sub-contractor	Delay to completion of project due to Subcontractor underperformance	Increased out of turn costs due to delay plus revenue loss	BBS	Rob Leach	Active	Construction	4	3	3				12	RED	(1) Close monitoring of sub-contractor performance - credit status etc (2) Ongoing BBS management of Subcontractor performance etc		Ongoing	2	1	2	0	0	1	4	GREEN	
ED157	BBS delays, client instructions, other risks occurring	Impact is delayed in finishing back work on site to ensure arriving and needs to finish early delay to Client instructions / risk items paid once later (3.38 now in issue log)	Delay and large Cc	Andy Scott	Andy Scott	Active		1	4	3				4	GREEN		Finalise NI form used and work sign off as complete	Andy Scott	1	4	3				4	GREEN	
ED011	CEC do not agree funding and contingency on time	Full funding and contingency not available on time for repayment milestones	Additional costs, delays and legal claims	CEC	Hou Leach	Active	Non Construction	2	3	5			4	10	AMBER				1	4	4				4	4	GREEN
ED018	Delay over 21 days Cost over 250k Failure to agree variation limit and costs	Risk that contract is moved to cost reimbursement	Costs	CEC	Hou Leach	Active	Non Construction	3	3	1	0	0	4	25	RED	Monitor, Continue project management effort to avoid	Weekly PMC meetings escalation to control involving where necessary		1	4	1				4	4	GREEN
ED116	Insufficient H&S Governance by McNicholas	H&S breaches, incidents and stoppages	Fines, injuries & stoppages Potential removal of contractor	CEC	Andy Scott	Active	Construction	5	4	4	1	5	5	25	RED	McNicholas related risk	Focus on method statements, working practices and H&S standards increase awareness and raise issues 1) Meeting of principles to identify improvement plans 2) Weekly Safety meetings with McNicholas and rolling action log being managed 3) Leading indicators developed to monitor McNicholas safety performance	Ongoing	1	3	2	1	4	4	4	4	GREEN
ED080	Unidentified voids found during excavations/demolitions	Unknown or abandoned chambers, collars, voids etc.	Redesign and delays pending resolution - cost impact	CEC	Andy Scott	Active	Construction - On Street	3	3	5			2	15	RED		Design management process/Outline Design in place Advanced diversion works Ongoing surveying works from infra		1	3	4				2	4	GREEN
ED006	Due to number of different programmes	Risk that programmes do not integrate and align	Disruption to delivery and associated delays	IEI	Paul Houston	Active	Non Construction	3	3	4			5	15	RED	Integrated Master Schedule completed Ongoing testing and QA on the programme		1	3	3				4	4	GREEN	
ED114	May elections	Change of local authority leadership	change political priorities	CEC	Bru McCalvey	Active	Client	2	2	2			4	8	AMBER		Ensure communication strategy in place within council	CEC	1	1	1				4	4	GREEN
ED121	Due to lack of clarity in mediation negotiations	Fail to recover costs for utilities off street from BBS paid by CEC (SGN diversion and others)	Financial loss	CEC	Shirley Murch	Active	Non Construction	4	3	1	1	1	1	12	RED		Commercial meeting held with BBS and CEC CEC to decide contractual remedy	Ongoing	1	3	1	1	1	1	3	GREEN	
ED001	Contract Programme Narrative Assumptions do not reflect actual conditions on site	Risk that project/delivery team fails to deliver against the Contract Programme Narrative Assumptions	Potential compensation claim bigger e.g. commitment to work within designated working areas	IEI	Hou Leach	Active	Non Construction	5	3	5	0	0	5	25	RED	Assumptions review completed	1. Mitigation plans to be developed for each assumption 2. Contract Narrative is not contractual document 3. Master Schedule to incorporate the dependencies against which the Programme Narrative assumptions are defined 4. Review programme assumptions are accommodated in the Master programme	1. Section leads 2. Gary Leach 3. Paul Houston 4. Paul Houston	1. Complete 2. Complete 3. Complete 4. Complete	1	3	2			3	3	GREEN
ED085	Land owner issues	Risk that access to 3rd party land is delayed or denied	Delays and additional costs for compensation	CEC	Shirley Murch	Active	Construction - Off Street	3	3	4	0	0	3	12	RED		Regular review meetings with key stakeholders		1	3	3	0	0	3	3	GREEN	
ED030	Other CEC projects	Delivery of the project suffers due to external activities of CEC (with us)	Delays	CEC	Hou Leach	Active	Client	2	3	3			3	6	AMBER				1	3	3				3	3	GREEN
R012	Fail to follow defined process of progressive assurance with ICP and/or HMTI, leaving issues unresolved at start-up	Delay in acceptance of infrastructure by ICP/HMTI and other official approvers e.g. Road Safety Audit	Failure to complete RGS process, including assurance verification and evidence of risk assessment/mitigation in design/construct/development/maintenance, results in refusal of permission to open for Passenger service, resulting in delay, rework or demobilisation costs and possible penalties/LADS	BBS/CEC/T&T	William Delaney	Active	Construction	2	3	4	0	0	3	8	AMBER	(1) Comply with defined process to achieve progressive assurance in good time (2) Develop verification and required hardware documentation in good time (3) BBS have shared their Working Document of 16 BSE with CEC/T&T	CEC/T&T to ensure that they comply with requirements to satisfy ICP and HMTI to obtain acceptance to commence (Review) Ongoing meetings held with ICP and HMTI to provide progress updates	Ongoing	1	2	3	0	0	3	3	GREEN	
R019	Discovery of unforeseen archaeological or human remains during excavation	Archaeological or Human Remains	(1) Delay to works during action by authorities	CEC/T&T	Andy Scott	Active	Construction	1	3	3	0	0	0	3	GREEN	(2) Training/briefing for BBS site operatives, on recognition and action plan	(1) Client carrying out pre-excavation based on archaeological assessment of higher probability areas (3) CEC/T&T to make provision (time/costs) for archaeological findings	Ongoing	1	2	3	0	0	0	3	GREEN	
R009	Excavation, piling and digging on contaminated land releases contamination to receptors - land, air, water	Release of pollution from contaminated land or land not previously identified as contaminated	Failure to identify contamination, or failure to implement agreed measures/procedures for known contamination, results in breach of associated environmental legislation, especially water legislation if released to the water environment, results in work stoppage, delay and/or additional costs, penalties, reputation damage	BBS	Shirley Murch	Active	Construction	2	2	3	3	0	3	6	AMBER	(1) Carry out Phase 1 and Phase II investigation and then remediation procedure as per agreement with the local authority (2) Establish control procedure for contaminated ground/water (3) Brief workforce on identification of contamination, and reporting requirements		Ongoing	1	1	3	2	0	2	3	GREEN	
ED053	Insufficient surveys and trial holes etc	Unforeseen ground conditions require additional works, excavations, fill etc	Additional costs, work and programme impacts	CEC	Rob Leach	Active	Construction	3	2	2			1	6	AMBER		Surveying/working works to identify		1	2	2				1	2	GREEN
ED052	Concurrent major projects in Edinburgh	Other major project conflicts with tram (excluding existing NI projects)	Delay and additional project management costs	CEC	Shirley Murch	Active	Construction	3	2	2			2	6	AMBER		CEC tracking external projects		1	2	2				2	2	GREEN
R002	(1) Failure to supervise works correctly (2) Failure to install or maintain guarding, lighting, signage, TM, temporary roads and paths (3) Failure to inform third parties of works	Death, injury or damage to third parties (people or property) during construction	Construction incidents causing death or injury, damage to works or adjacent infrastructure, delay and/or additional costs, involvement in investigation process, legal penalties or insurance issues, reputation damage	BBS/CEC/T&T	Rob Leach	Active	Construction	2	3	4	1	4	3	8	AMBER	(1) Operate robust Construction Health & Safety management system (2) Identify risks at Work Package Plan stage and mitigate in method planning and appropriate control measures (3) Ensure works are carried out in compliance with WPP and that WPP is amended in advance of implementation if works methodology change is necessary	T&T implementing appropriate H&S Management System to monitor performance McNicholas - see risk ED 116	Ongoing	1	2	2	1	3	2	2	GREEN	

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ID	Cause	Risk Description	Impact / Consequence	Risk Owner (individual)	Risk Owner (organisation)	Status	Risk Analysis - Pre Mitigation			Risk Analysis - Post Mitigation			Risk Score (Pre Mitigation)	Risk Score (Post Mitigation)	Overall Status				
							Probability	Cost/Time	Reputational	Probability	Cost/Time	Reputational							
ED004	Failure of utility services	Failure of utility assets which impacts on trams	Impact on trams	CEC	Risk Owner	Active	2	2	3	4	0	AMBER	1	1	2	2	GREEN		
ED005	Construction activities	Construction activities which impact on tram services	Impact on tram services	BBS	Risk Owner	Active	3	2	2	3	3	AMBER	1	2	1	2	2	GREEN	
ED006	Hydrocarbon spill	Hydrocarbon spill during filling/charging	Impact on tram services	BBS/CEC/T&T	Risk Owner	Active	2	1	3	0	3	AMBER	1	1	2	0	2	2	GREEN
ED007	Weather conditions	Weather conditions which impact on tram services	Impact on tram services	BBS	Risk Owner	Active	2	2	3	4	0	AMBER	1	2	3	0	2	2	GREEN
ED008	Water runoff	Water runoff from exposed concrete	Impact on tram services	BBS/CEC/T&T	Risk Owner	Active	3	2	0	0	6	AMBER	1	2	0	0	2	2	GREEN
ED009	Loss of O&M control	Loss of O&M control of construction information	Impact on tram services	BBS	Risk Owner	Active	2	2	2	0	4	AMBER	1	1	0	2	1	1	GREEN
ED010	Discovery of additional track construction conflicts	Discovery of additional track construction conflicts	Impact on tram services	BBS	Risk Owner	Active	2	2	3	0	3	AMBER	1	1	2	0	1	1	GREEN
ED011	Delayed provision of permits from utility companies	Delayed provision of permits from utility companies	Impact on tram services	CEC	Risk Owner	Closed	5	5	2	3	0	GREEN	2	4	2	3	0	GREEN	
ED012	OLE base conflict with existing utility services	OLE base conflict with existing utility services	Impact on tram services	CEC	Risk Owner	Closed	4	4	4	4	0	GREEN	2	3	3	0	0	GREEN	
ED013	OLE base conflict with existing utility services	OLE base conflict with existing utility services	Impact on tram services	CEC	Risk Owner	Closed	5	5	5	5	0	GREEN	1	3	2	3	0	GREEN	
ED014	Discovery of old tram tracks and signals	Discovery of old tram tracks and signals	Impact on tram services	CEC	Risk Owner	Closed	5	4	3	3	2	0	GREEN	1	3	3	2	0	GREEN
ED015	Height clearance for BBS system and its components	Height clearance for BBS system and its components	Impact on tram services	BBS/CEC/T&T	Risk Owner	Closed	3	3	3	3	0	GREEN	1	1	3	0	0	GREEN	

## Appendix 5 – On Street Schematic

Updated 25<sup>th</sup> April 2013



## Appendix 6 – Organisation Chart

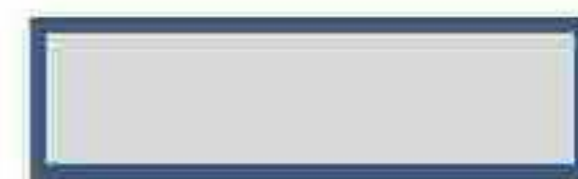
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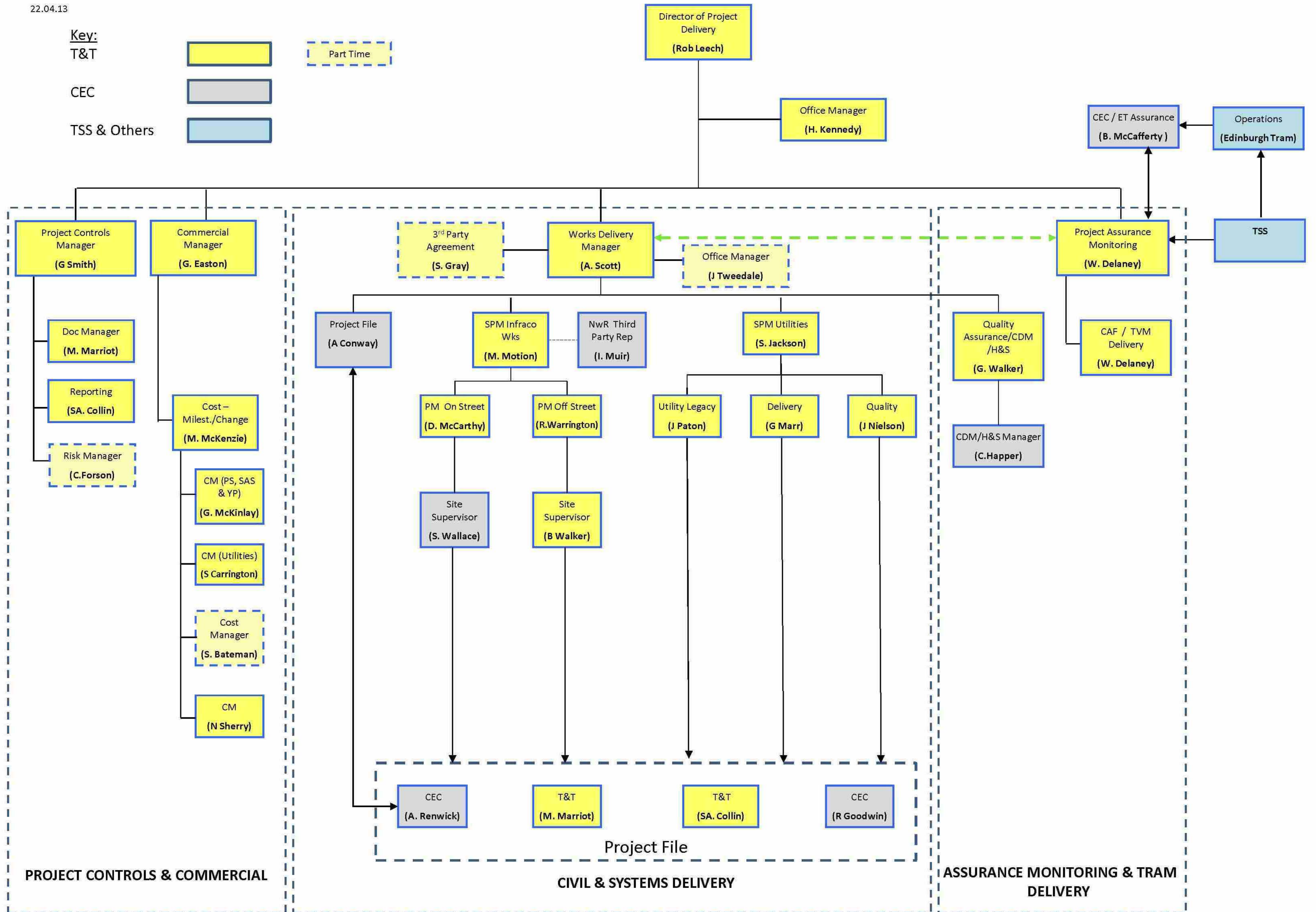
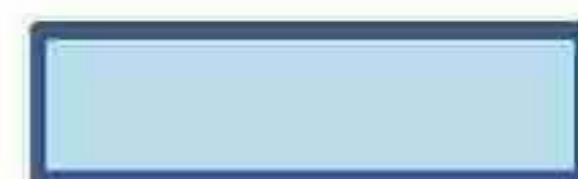
T&T



CEC



TSS & Others



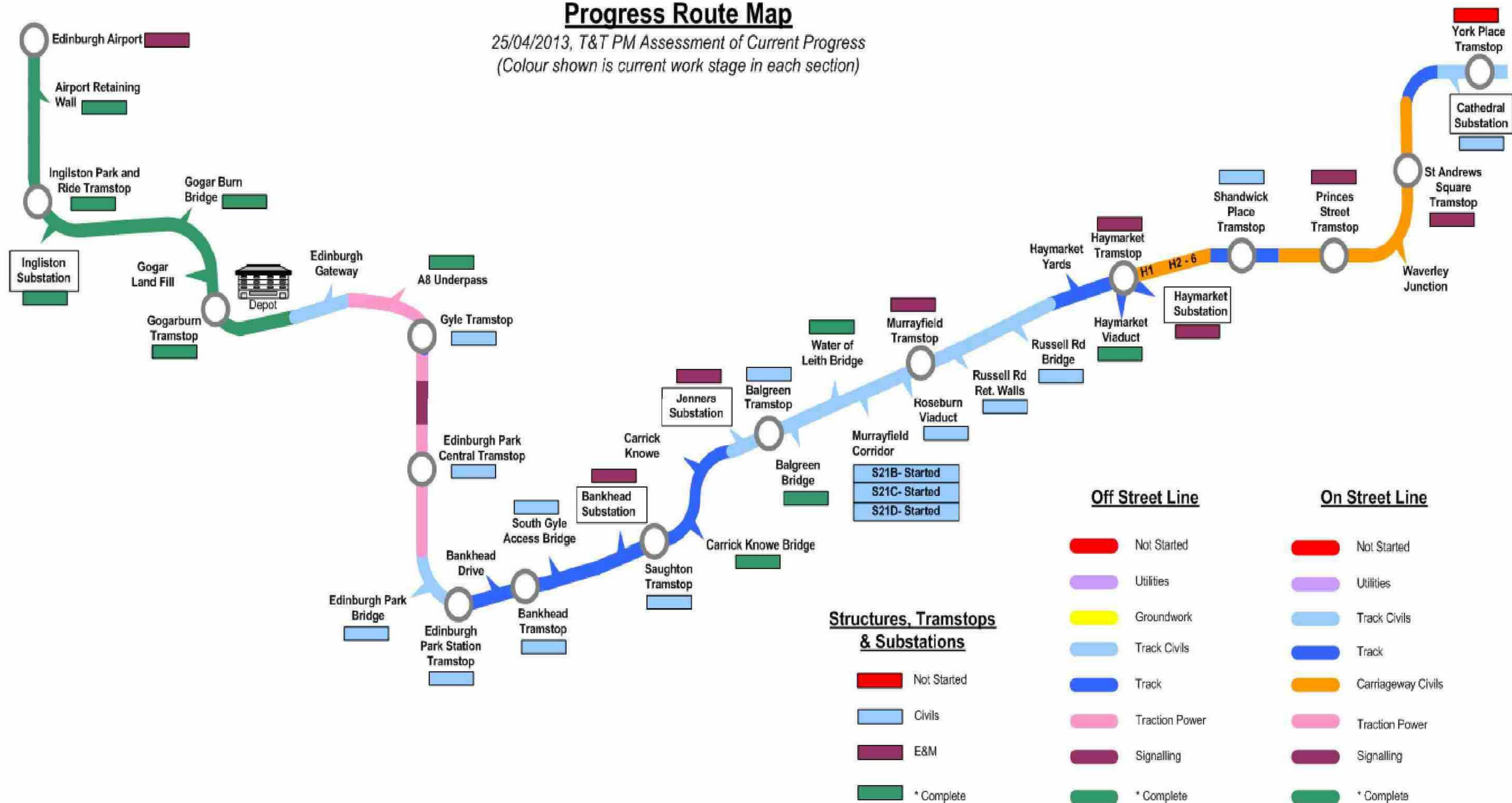
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## Appendix 7 – Route Map

# Progress Route Map

25/04/2013, T&T PM Assessment of Current Progress  
 (Colour shown is current work stage in each section)



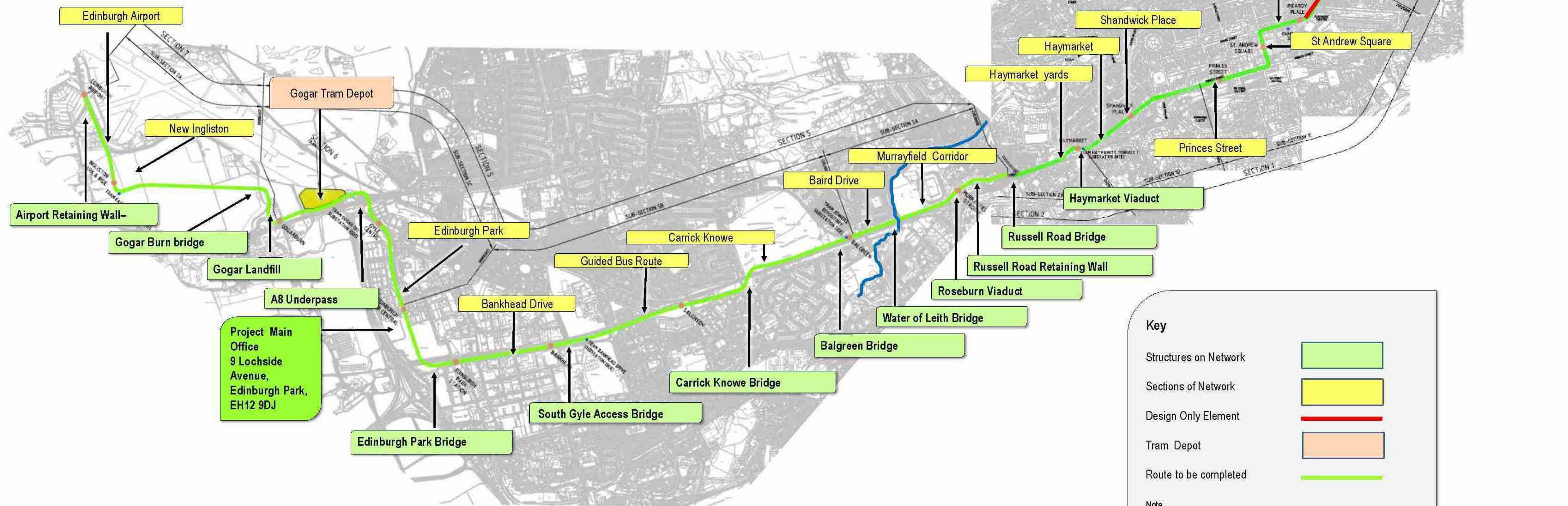
### Structures, Tramstops & Substations

- Not Started
- Civils
- E&M
- \* Complete

- | Off Street Line                          |                | On Street Line                           |                    |
|--|----------------|--|--------------------|
| <span style="color: red;">■</span>       | Not Started    | <span style="color: red;">■</span>       | Not Started        |
| <span style="color: purple;">■</span>    | Utilities      | <span style="color: purple;">■</span>    | Utilities          |
| <span style="color: yellow;">■</span>    | Groundwork     | <span style="color: lightblue;">■</span> | Track Civils       |
| <span style="color: lightblue;">■</span> | Track Civils   | <span style="color: darkblue;">■</span>  | Track              |
| <span style="color: darkblue;">■</span>  | Track          | <span style="color: orange;">■</span>    | Carriageway Civils |
| <span style="color: pink;">■</span>      | Traction Power | <span style="color: pink;">■</span>      | Traction Power     |
| <span style="color: maroon;">■</span>    | Signalling     | <span style="color: maroon;">■</span>    | Signalling         |
| <span style="color: green;">■</span>     | * Complete     | <span style="color: green;">■</span>     | * Complete         |

\* Does not include any snagging activities

# Edinburgh Tram Network – Route Map & Key Locations



Project Main Office  
9 Lochside Avenue,  
Edinburgh Park,  
EH12 9DJ

## Appendix 8 – Acronyms

## ACRONYMS

ACCB	Accommodation and Boundary Works
AiP	Approval in Principle
ANC	Advice of Non Compliance
APPP	Prior Approvals – Detail Design
APPR	Approvals
APPT	Technical Approvals – Detail Design
ARCH	Architecture
AUXI	Auxilliary Power
BAA	British Airports Authority
BBS	Bilfinger Berger Siemens
BLDS	Buildings
BRDG	Bridges
BSC	Bilfinger Berger / Siemens / CAF - previous consortium
CAF	Tram Provider - (Construcciones y Auxiliar de Ferrocarriles)
CAR	Corrective Action Request
CAR	Water Environment (Controlled Activities) Regulations 2011
CDM	Construction (Design and Management) Regulations 2007
CEC	City of Edinburgh Council
CECS	CEC Services
CFS	Case for Safety
CHAR	Charette Changes
COCP	Code of Construction Practice
COMM	Commissioning
CVI	Confirmation of Verbal Instruction
DAS	Design Assurance Statement
DASB	Design – As Built
DaST	Deliver a Safe Tram
DDAP	Detailed Design Assurance Plan
DEMO	Demolition
DEPO	Depot
DKE	Dynamic Kinetic Envelope
DoC	Declaration of Conformity
DRAN	Drainage
DtTS	Deliver the Tram Safely
E&M	Electrical & Mechanical
EAL	Edinburgh Airport Limited
EART	Earthworks / Embankments
ELEC	Electricity
EMC	Electromagnetic Compatability
ENVI	Environmental
ER's	Employers Requirements
ESM	Engineering Safety Management
FAT	Factory Acceptance Test
FATs	Factory Acceptance Tests
GASS	Gas
GEOT	Geotechnical
HAZID	Hazard Identification Study
HAZOP	Hazard and Operability Study
HIGH	Highways
HIRA	Hazard Identification and Risk Assessment
HMRI	Railway Inspectorate
HS	Historic Scotland
HSE	Health and Safety Executive
HV	High Voltage
ICCO	Independent Certifiers Change Order
ICP	Independent Competent Person

IDC	Inter Disciplinary Check
IDR	Inter Disciplinary Review
Infraco	Infrastructure contract
ISA	Independent Safety Assessor
ISRP	Infrastructure Safety Review Panel
ITP	Inspection and Test Plan
JNCS	Junctions
KPI	Key Performance Indicator
LAND	Landscaping
LIGH	Lighting
LOLER	Lifting Operations and Lifting Equipment Regulations 1998
MANA	Management
MECH	Mechanical
MILE	Milestones
MISC	Miscellaneous
MODL	Modelling
MUDFA	Multi-Utility Diversions Framework Agreement
MUDFA	Multi Utility Diversions Framework Agreement
MULT	Multi-Discipline
NCR	Non Conformance Report
NR	Network Rail
NWR	Network Rail
O&M	Operation and Maintenance
OCC	Operational Control Centre
OCIP	Owner Controlled Insurance Policy
OCL	Overhead Catenary Line
OLE	Overhead Line Equipment
ORA	Operational Risk Assessment
ORR	Office of Rail Regulation
ORS	Operational Radio System
OTHW	Other Works
PHA	Preliminary Hazard Analysis
PLAT	Platforms
PM	Planned Maintenance
POWR	Power (Traction)
PSCC	Project Safety Certification Committee
QCRA	Quantified Cost Risk Analysis
QRA	Quantified Risk Analysis
QSRA -	Quantative Schedule Risk Analysis
RAIB	Rail Accident Investigation Branch
RAM	Reliability Availability Maintainability
REL	Railway Electrification
RFI	Request for Information
RFO	Request for Opinion
RIDDOR	Reporting of Injuries, Diseases and Dangerous Occurences Regulations 1995
ROGS	The Railway and other Guided Transport System (Safety) Regulations 2006
RSA	Road Safety Audit
RSAR	Road Safety Audit Report
S&T	Signalling and Telecoms
SAC	Safety Application Condition
SAT	System Acceptance Test
SATs	Site Acceptance tests
SCADA	Supervisory Control and Data Acquisition
SDS	System Design Services
SEPA	Scottish Environmental Protection Agency
SEWR	Sewerage
SFAIRP	So Far As Is Reasonably Practicable
SGN	Scotland Gas Networks
SI	Site Instruction
SIGN	Signalling
SIT	System Integration Test
SMS	Safety Management System
SNH	Scottish Natural Heritage
SP	Scottish Power
STAK	Stakeholder
STRL	Street Lighting
STRU	Structures / Retaining Structures
SUBM	Submissions
SUBS	Sub-Stations
SURV	Surveys

SW	Scottish Water
TPS	Traction Power Supply
T&T	Turner & Townsend
TCO	Tie Change Order
TM	Traffic Management
TNC	Tie Notice of Change
TS	Transport Scotland
TSS	Technical Support Services
UCO	Utilities Change Order
UNC	Utilities Notice of Change