

Edinburgh Trams
City of Edinburgh Council



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Infraco Cost Report Section 2A - Approved Change - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
569	Additional Running Costs associated with the extension to the Edinburgh Park offices	79,200	79,200	0		00	01
572	Cathedral Lane Substation - Retaining Wall Design	34,459	31,013	3,446	Value based on submitted estimate from BBS	01	01
574	Haymarket Station - Delete viaduct cladding	-10,000	-10,000	0		02	01
576	Depot - Reinstatement to 250mm Water main Remedial Works	36,788	36,788	0		07	01
577	Haymarket Viaduct - Deletion of Sub Station Retaining Wall and Plinth	1,580	1,580	0		02	01
578	SI Provisional Sum Allowance	-57,984	-57,984	0		01	02
580	Cancellation of trackwork materials York Place to Newhaven	-1,100,000	-1,100,000	0	Change resulting from value engineering exercise	01	02
581	Omit Siemens work to Tower Place and Victoria Dock bridges	-100,000	-100,000	0	Change resulting from value engineering exercise	01	02
582	Delete proposed cladding installation costs on Roseburn Viaduct Structures	-308,004	-308,004	0	Change resulting from value engineering exercise	05	01
585	Descope of Service Vehicle	-21,565	-21,565	0		00	01
589	Descoping airport tramstop kiosk and canopy	-150,000	-150,000	0		07	01
591	Diversion of Scottish Power Cable at Haymarket Viaduct	21,789	21,789	0	NR contribution	05	01
595	Haymarket Viaduct - Deletion of fitting out of Crew Relief Facility	-74,001	-74,001	0	Assume credit from NR (yet to be established)	05	01
597	Section 1D - Omit disconnection of Bus Tracker	-14,928	-14,928	0		01	01
602	Omit purchase of poles for PIDs North of York Place	-23,740	-23,740	0		01	01
609	Traffic Management provision in section 1A	133,140	130,000	3,140		01	03
613	Temporary Bus Station at St Andrew Square/Waterloo Place - design	50,000	50,000	0		01	01
615	Haymarket Viaduct - design wall for blocking off void under the bridge deck as a result of the crew relief facility being omitted	3,000	3,000	0		05	01
616	Haymarket Viaduct - construct wall for blocking off void under the bridge deck as a result of the crew relief facility being omitted	10,798	10,798	0		05	01
617	Tram stops branding changes. Requirement for etched glass to be confirmed	0	0	0	Value TBC	05	01

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TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
618	Gogar Depot 1800 mm Diameter Manhole - TQ736	6,176	15,000	-8,824		06	01
619	Omit Track Welding Equipment	-14,420	-3,000	-11,420		06	01
Total		-2,159,905	-2,266,247	106,343			

Infracost Report Section 3A - Change in Progress - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
524	Airport to Gyle - NIL Design Finalisation (also includes Construction)	-40,559	-40,559	0		07	01
525	Airport to Gyle - Site Access for Remedial Works	0	0	0	all costs associated with this change allocated to TNC 576	07	01
527	Ingliston - Reimbursement of Costs paid directly to SGN for the diversion of approximately 120m of 10" steel IP gas main to accommodate the new Edinburgh Tram at Ingliston	0	0	0	Saving from Infracost, not included during the period as cost not shown in utility budget	07	01
539	System Wide - Delay in signing - impact on commencement and completion	4,541,161	4,541,161	0	Meeting scheduled to review cost incurred at delay commencement	00	04
541	Princes Street - City Chamber - Annandale Street Communication Links. Usage of CEC available BT-Lines to avoid provision of direct FO link from Princes Street to City Chambers	111,163	111,163	0	Allowance for ducting	01	01
555	Haymarket - OLE 196B design revision to avoid main sewer	0	0	0	Design costs to be grouped under tnc 562 (BBS PMC 045)	01	02
556	Track Work Materials York Place to Newhaven - Price Fixing for Rheda City C and D	0	0	0	Included in VE register	01	01
557	Haymarket 1 - OLE Base Relocations (Design mods)	0	0	0	Design costs to be grouped under tnc 562 (BBS PMC 045)	01	02
571	Hope Street Junction Design	5,000	5,000	0		01	01
573	Roseburn Delta - Non DDA Compliant Footpath	0	0	0	TNC covers design only. Costs associated with this change included in the anticipated change section	05	01
575	Haymarket Station - Take Down Viaduct Staircase and Parapet. TNC now withdrawn - Network Rail carrying out work	0	0	0	Work to be carried out by Network Rail	02	01
586	St Andrew Square - tie in detail	15,228	15,228	0	Change resulting from value engineering exercise	01	01
587	Revise design for amendments to setts areas and specification	30,000	30,000	0	Subject to separate CEC budget?	01	01
592	Haymarket Yards - Realign kerbs at Car Park Entrance	0	0	0	Currently on hold pending A. Sim review.	05	01
593	Secondary Phase 1a - Cessation of Design Work North of York Place	0	0	0	Saving opportunity being investigated in relation to future ownership of design etc prior to finalising value.	01	01
594	Edinburgh Gateway slope option. Awaiting construction estimate	4,200,000	4,200,000	0		05	01
599	Floating track slab	980,000	980,000	0	Verbal advice from Siemens and Bilfinger Berger of cost of providing floating slab at all locations identified. Potential opportunity to reduce if marginal locations are omitted. Subject to final report from BBS.	01	01

Infracost Report Section 3A - Change in Progress - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
601	Clarification on length of shelter to RBS tram stop (8m)	25,000	25,000	0	Liability for change still to be clarified - basis of contract price unclear	05	01
603	Bus Tracker Interface Specification	10,000	10,000	0	Cost based on option 2	01	01
605	Depot - Sub-Station Switching	80,000	80,000	0	Includes allowance up to Section B completion date (8/3/13)	06	03
608	Delete 110v sockets on Off Street Tram Stops	-16,500	-16,500	0	Assume £1.5k per tram stop. Awaiting estimate	05	01
610	Edinburgh Gateway - Siemens Long Lead Items	0	0	0	Cost covered within the Edinburgh Gateway costs.	05	01
620	Airport Tram Stop Design	10,000	10,000	0		05	01
621	Amend the dates of the HV meter installation at substations	12,507	12,507	0		05	01
622	LV power for sub-station and Tramstop.	0	0	0		05	01
623	Repair minor damage to Depot (Intercom, fence panel and broken slabs	3,000	3,000	0		07	01
624	Compressed Air Supply to Depot Gantry Road and workshop	5,000	5,000	0		07	01
625	Engineering attendance on site at Cathedral Lane.	55,000	55,000	0		01	01
626	Advanced procurement of Edinburgh Gateway Materials and Equipment.	0	0	0	Costs included in tNC 594.	05	01
627	Delete pedestrian guardrail in the area outside St John's Church (Design)	5,000	5,000	0		01	01
628	Prepare MUDFA As Built drawings	100,000	100,000	0	Requirements to be confirmed	01	01
632	Resolve Depot Building water ingress	0	0	0	Assumed to be BBS liability	06	01
636	Twin Crossing at Lochside Avenue	20,000	20,000	0		05	01
640	Unimog Insurance	-1,000	0	-1,000		00	01
643	Edinburgh Gateway Construction	0	0	0	Refer to costs included elsewhere for Gateway	05	01
647	Design work to support VE on carriageway reconstruction & kerb realignment	10,000	0	10,000		01	01
648	Cabinet Position For Street Lighting - design	10,000	0	10,000	Provision of as-built drawings	01	01

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Infracost Report Section 3A - Change in Progress - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
649	Princes Street Blister - Design Works	0	0	0		01	01
651	Defer Off Street Tramstop Shelter Installation and Fit-out	50,000	0	50,000		05	01
653	Provision of IFC Drawings in DWG CAD format	5,000	0	5,000		01	01
652	Maintenance of The Depot Workshop Equipment	49,633	0	49,633		06	01
655	Revise CCTV & PA coverage at Murrayfield tram stop	5,000	0	5,000		05	01
657	Drainage As Built Drawings - Princes Street	15,000	0	15,000		00	01
Total		10,294,633	10,151,000	143,633			

Infraco Cost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	In Progress	Certified	Total Forecast	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
513.1	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	0	17,210	17,210	17,210	0		01	02
521	Haymarket - Temporary Accommodation	0	1,543	1,543	1,543	0		01	02
522	Haymarket 1 - Road Reconstruction	0	0	0	0	0	Included in VE register	01	02
523	Haymarket 1 - Additional CBR / Plate Testing	0	0	0	0	0	Included within on street priority works (contract milestones)	01	02
528	Haymarket 1 - Slit trench excavation to validate utilities	0	6,565	6,565	6,565	0	Included within on street priority works (contract milestones)	01	02
532	Princes Street - Temporary traffic management design - WITHDRAWN	0	0	0	0	0	Further information required	01	02
533	Princes Street - 500mm Water Main Diversion	0	0	0	0	0	Costs contained within 535	01	02
535	Princes Street - 500mm Water Main Diversion - rev 3 dwg	0	252,986	252,986	252,986	0		01	02
537	Haymarket 1 - Additional visit of Tar planer to facilitate slewing of BT ducts - WITHDRAWN	0	0	0	0	0	Withdrawn	01	02
543	Haymarket H1 - Utilities affecting the construction of OHLE foundations	-33,303	283,807	250,503	283,807	-33,303	Only covers section H1. H2 to YP included in item 7 of Anticipated Change.	01	02
545	Site Wide - Power to bus trackers affecting the ability to remove site clearance items	0	0	0	0	0	McNicholas to remove. Contra charge BBS; allowance included for BBS attendance	00	02
546	Site Wide - Increased number of drainage boxes including installation	21,482	0	21,482	21,482	0		00	02
547	Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works	0	3,787	3,787	3,787	0		00	02
548	Haymarket H1 - BT Fibre Optic Service requires diverting	0	83,053	83,053	83,053	0		00	02
549	Princes Street - Amend the design of the St. Johns Church OLE bases	5,234	12,284	17,518	12,284	5,234	Opportunity to deduct original scope to be pursued once acceptance of revised pole locations is achieved.	01	02
551	Princes Street - 2011 Christmas Embargo - Temporary Surfacing of Track Infills	0	203,511	203,511	203,511	0		01	02
552	Princes Street - BT diversion @ junction of Princes Street and South St. David Street	0	0	0	0	0	Costs included within TNC 535	01	02
554	St Andrew Square & Shandwick Place - Traffic Management Requirements	59,756	160,002	219,757	219,758	0	Refer to Revised issue of TNC	01	02
560	St. Andrew Square - Omit £0.7m of repairs to road surface finishing	-700,000	0	-700,000	-700,000	0		01	02

Infraco Cost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	In Progress	Certified	Total Forecast	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
570	Omit the Removal of Trees in Shandwick Place	-5,725	0	-5,725	-9,066	3,341		01	02
579	Removal of embargo and revised traffic management	0	0	0	0	0	Change resulting from value engineering exercise	01	02
583	Ordering setts for on street works	-90,000	0	-90,000	-90,000	0	Saving based on spreadsheet issued to CEC (GE to AC 22/05/2012). Final value still to be agreed with BBS	01	02
584	Road Reconstruction specification	201	0	201	0	201	Change resulting from value engineering exercise	01	02
588	Stafford St Return of Parking Spaces	0	0	0	0	0		01	02
590	New cycleway from The Mound into Princes Street	1,068	29,718	30,786	20,000	10,786	Costs included in PMC 108 - to be allocated to tNC	01	02
596	Section 1D - Costs associated with amended drainage design	27,877	89,048	116,924	80,131	36,794		01	02
598	Section 1D - Incorporate geotextile liner into Clifton Terrace void in accordance with requirements from Archaeologist	1,740	1,760	3,500	3,500	0		01	02
600	Shandwick place - OLE bases affecting utilities (Piling)	-70,889	377,584	306,695	372,712	-66,017		01	02
604	St Andrew Sq - OLE bases affecting utilities (Piling)	-31,553	69,103	37,550	69,513	-31,963		01	02
606	York Place - Waverley Bridge - Works Delayed and disrupted as a result of works carried out by Third parties	5,157	40,843	46,000	44,111	1,888		01	02
607	Delete 110v sockets on On Street Tram Stops	-4,500	0	-4,500	-4,500	0	Assume £1.5k per tram stop. Awaiting estimate	01	01
611	Excavation of Track Slab to be carried out by McNicholas	0	0	0	0	0	Refer to Anticipated change section for costs	01	01
612	Tram stops branding changes. Requirement for etched glass to be confirmed (cost excluded)	0	0	0	0	0	Value TBC	00	01
614	Rothesay Place Traffic Management Amendment	10,000	0	10,000	10,000	0		01	01
629	Utilities affecting Track Excavation at Shandwick Place (S1)	5,758	3,072	8,830	15,730	-6,900		01	02
630	Utilities affecting Track Excavation at Shandwick Place (S2)	12,698	5,779	18,477	5,904	12,573		01	02
631	Third parties affecting progress at Shandwick Place (S2)	0	7,161	7,161	7,522	-362		01	02
633	Ponding on Princes St at junctions of Frederick St/Castle St	0	0	0	40,000	-40,000	Contract liability for all Princes St snags to be established	01	01

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Infracost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	In Progress	Certified	Total Forecast	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
634	Descope duct installation at Cathedral Lane	0	0	0	0	0	In Anticipated change section	01	01
635	Amend on street drainage scope	0	0	0	0	0	In Anticipated change section	01	02
637	St Andrew Square Pedestrian Crossing	5,000	0	5,000	0	5,000		01	01
638	Remove pedestrian guardrail outside St John's Church	0	0	0	0	0		01	01
639	York Place - Traffic Management Design	10,000	0	10,000	0	10,000		01	01
641	Cathedral Lane substation - scope change to suit Henderson Global requirements. Excludes demolition.	281,000	0	281,000	0	281,000	This allowance is for the extra over cost included in the contract for construction of the new tram substation only. There is no allowance for any works in constructing Henderson Global's substation. Design work is included in TNC 509	01	01
642	York Place temporary Tram Stop	0	0	0	0	0		01	01
644	Finials for On Street Poles	30,000	0	30,000	0	30,000		01	01
645	Princes Street Outstanding Works	290,000	0	290,000	0	290,000		01	01
646	Cabinet Position For Street Lighting	20,000	0	20,000	0	20,000	Relates to locations only - assume no additional work	01	01
650	Princes Street Blister	10,000	0	10,000	0	10,000	Assume resolution agreed on site - no design work	01	01
654	De-scope coloured high friction surfacing at Princes / Sth St David Street Jctn	0	0	0	0	0	Savings contained in tNC 560	01	01
656	Defer On Street Tramstop Shelter Installation and Fit-out	10,000	0	10,000	0	10,000		01	01
658	Clarification of scope to Shandwick Place Wall	0	0	0	0	0		01	01
Total		-129,002	1,648,816	1,519,814	971,542	548,271			

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Infraco Cost Report Section 4 - Anticipated Change

Ref No	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
2	Pricing Assumptions - 6.4.2.3 York Place Terminal Point	944,000	944,000	0	Excludes design costs (in change section of report) and sheet piling work to strengthen basement (included in risk allowance).	01	02
3	Pricing Assumptions - 6.4.2.4 Cathedral Lane Substation	0	250,000	-250,000	Costs associated with construction included within tNC 641. Demolition costs included in Enabling Works budget (T19.C)	01	02
4	Pricing Assumptions - 6.4.2.6 Dublin Street	50,000	50,000	0	Excludes piling if required.	01	02
6	Track Lowering - bridging trackform over utilities in St Andrew Square	150,000	500,000	-350,000	Requirement for 30m section in St Andrews Square. Costs will come through On Street Works estimates	01	02
7	Piled OLE base in lieu of utility diversion	100,000	110,000	-10,000	Allowance for remaining scope at 23/06/2012. 1 OLE base at Shandwick Place; 2 piles, 3 bases. Costs will come through On Street Works estimates	01	02
14	Roseburn Delta - non DDA footpath	30,000	30,000	0	No design required. Temporary footpath alignment to be agreed on site. Potential modifications to surface water drainage resulting from revised earthworks and Scottish Water approvals.	05	01
15	MUDFA Reinstatement - Hope Street / Lothian Road	30,000	30,000	0	CEC may undertake this work	01	01
20	Further design changes to OLE resulting from utilities (York Place)	0	50,000	-50,000	Initial value of £200k drawn down into tNCs	01	02
23	Drainage redesign and amendments to numbers / depths of manholes, carrier drains / drainage connections.	50,000	50,000	0	Additional design £50k; costs associated with standing time and or delay captured in Schedule Part 45 Costs	01	02
24	Remove drainage from Infraco scope	-250,000	-450,000	200,000	Extent of deduction to be fully established. BBS have advised a total saving of £250k. T&T believe the value is larger based on our remeasure. However, BBS are disputing the method of calculating the deduction.	01	01

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Infraco Cost Report Section 4 - Anticipated Change

Ref No	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
25	Remove excavation of trackbox from Infraco's contract	-250,000	-500,000	250,000	Value to be determined by detailed site measure and application of Schedule 45 rates. Quantification to be agreed with BBS. Note that this value has been reduced as BBS are disputing the method of calculating the deduction.	01	01
26	Remove ducting in Cathedral Lane from Infraco's contract	-75,000	-75,000	0		01	01
27	Amend road reconstruction depth from Contract Requirements	-700,000	-700,000	0	Principles instructed, saving subject to site conditions	01	01
28	Opportunity to reduce cost associated with the temporary tram stop at York Place	-150,000	-150,000	0	Design optimisation - still to be realised	01	01
29	Schedule Part E, Items 7. OLE Pole surface finish and decorative top (Finials)	0	49,760	-49,760	Refer to tNC 644	01	01
30	Schedule Part E, Item 8. Trackside Signage	37,320	37,320	0	Current requirements to be established	01	01
31	Schedule Part E, Item 10. OLE Change: Grosvenor Street Pole Movement	12,440	12,440	0	Current requirements to be established	01	01
32	Schedule Part E, Item 11. Unsuitable building fixings Section 1A	118,258	118,258	0	Current requirements to be established	01	01
33	Schedule Part E, Item 12. SDS Lighting Design update impacts OLE combined poles	62,200	62,200	0	Current requirements to be established	01	01
34	Schedule Part E, Item 14. SDS alignment update to match built structures	124,400	124,400	0	Current requirements to be established	01	01
35	Defer tram stop construction	30,000	30,000	0	Tram stop construction delayed to mitigate risks asociated with vandalism	00	01
36	Install fencing to mini test track	20,000	20,000	0		05	01
37	Redesign of OLE bases along Roseburn corridor where they are sited outside of the LOD	10,000	100,000	-90,000		05	01
Total		343,618	693,378	-349,760			

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Infracost Report Section 5 - Opportunities

Ref No	Description	Approved Changes	Changes in Progress	Anticipated Changes	Contributions	Secured	To be secured	Total Opportunity	Value per CS report Jan 2012	Notes
01	Remove embargoes and revised TM	0	0	0	0	0		0	-6,460,000	Subject to completion of sections in advance of contract dates. Initial opportunity based on 22 week time saving assumed in the Rev 4C programme. Current master programme indicates 4 week saving as a result of York Place
02	Edinburgh Gateway	0	0	0	-4,200,000	-4,200,000	0	-4,200,000	0	Awaiting instruction from Transport Scotland
03	Setts (separate CEC budget)	0	-90,000	0	-890,000	-980,000	0	-980,000	-1,000,000	Funded by separate CEC budget (added to contributions register)
04	De-scope public realm at St Andrew Sq	0	-700,000	0	0	-700,000	0	-700,000	-700,000	Instructed
05	Contributions 3rd Party Agreements	0	0	0	-2,996,875	-2,996,875	0	-2,996,875	-2,500,000	Refer to contributions register
06	De-scope works at Forth Ports	-2,443,000	0	0	0	-2,443,000	0	-2,443,000	-2,450,000	Instructed
07	Omit Airport Tram Kiosk and Canopy	-150,000	0	0	0	-150,000	0	-150,000	-150,000	Approved, replacement materials t.b.c
08	Temporary tram stop at York Place	0	0	-150,000	0	-150,000		-150,000	-150,000	Design optimisation
09	Redeployment of Trams	0	0	0	0	0	0	0	-5,000,000	Included in CEC budget code
10	Cancel track York Place to Newhaven	-1,100,000	0	0	0	-1,100,000	0	-1,100,000	-1,100,000	Instructed
11	Omit Siemens works at Tower Place	-100,000	0	0	0	-100,000	0	-100,000	-100,000	Instructed
12	Turner & Townsend / CEC resources	0	0	0	0	0	0	0	0	Ongoing
13	Shared recovery vehicle	0	0	0	0	0	0	0	0	Not taken forward
14	Road re-construction depth	0	0	-700,000	0	-700,000	0	-700,000	-700,000	Principles instructed, saving subject to site conditions
15	Design freeze north of York Place	0	0	0	0	0	0	0	-250,000	Infracost design costs expended
16	Reduced requirement for storage	0	0	0	0	0	0	0	-1,000,000	Included in CEC budget code
17	Lay off TM at Forth Ports/Leith Walk	0	0	0	0	0	0	0	-180,000	TM not included in Infracost budget provision
18	Roseburn Viaduct Cladding	-308,004	0	0	0	-308,004	0	-308,004	-300,000	Instructed

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Infracost Report Section 5 - Opportunities

Ref No	Description	Approved Changes	Changes in Progress	Anticipated Changes	Contributions	Secured	To be secured	Total Opportunity	Value per CS report Jan 2012	Notes
19	Delete Crew Relief Facility	-74,001	0	0	0	-74,001		-74,001		Instructed
Total		-4,175,005	-790,000	-850,000	-8,086,875	-13,901,880	0	-13,901,880	-22,040,000	

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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	860,000	82,995	0		940,000	940,000	0	528,000	£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		Construction works element of overall settlement with NIL. Remaining amount contained in Land budget	07	01
03	Henderson Global - Cathedral Lane substation	-44,596	233,596	281,000		470,000	400,000	70,000		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	500,000	60,000		Agreement reached with RBS 11/06/2012	07	01
05	St Andrew Square Public Realm design		133,075	0		133,075	133,075	0	133,000	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	13,798	0		13,798	13,798	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	890,000	0	0		890,000	890,000	0		No change in scope allowed for - setts funded by CEC. Saving based on spreadsheet issued to CEC (GE to AC 22/05/2012).	01	01
10	Network Rail - Scottish Power Cable diversion - Haymarket Station (TNC 591)		21,789	0		21,789	21,789	0			05	01
11	Edinburgh Gateway Construction		0	4,200,000		4,200,000	4,200,000	0			05	01
Total		3,123,617	485,253	4,481,000	0	8,086,875	7,956,875	130,000	979,213			

Infraco Cost Report Section 7 - Change Summary

Change Code	Description	Approved Change	Change in Progress	Anticipated Change	Contributions	Total
01	Scope Change	-1,731,381	6,334,972	-950,382		3,653,209
02	PAVs (Utilities, etc)	1,077,151	-790,502	1,294,000		1,580,649
03	Miscellaneous Client Risk Items	143,140	80,000	0		223,140
04	Time Delay	0	4,541,161	0		4,541,161
05	Project Contributions	0	0	0	-8,086,875	-8,086,875
Total		-511,090	10,165,631	343,618	-8,086,875	1,911,284

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.

Edinburgh Trams
City of Edinburgh Council



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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
543	Haymarket H1 - Utilities affecting the construction of OHLE foundations	0		0	-33,303	-33,303
549	Princes Street - Amend the design of the St. Johns Church OLE bases	0		0	5,234	5,234
566	On Street Generally - Ducting Design Changes Due to Utilities Conflicts	50,000		0	0	50,000
567	On Street Generally - Drainage Design Changes Due to Utilities Conflicts	50,000		0	0	50,000
568	On Street Generally - Trackform Design Changes Due to Utilities Conflicts	20,000		0	0	20,000
570	Omit the Removal of Trees in Shandwick Place	0		0	3,341	3,341
572	Cathedral Lane Substation - Retaining Wall Design	3,446		0	0	3,446
584	Road Reconstruction specification	0		0	201	201
590	New cycleway from The Mound into Princes Street	0		0	10,786	10,786
596	Section 1D - Costs associated with amended drainage design	0		0	36,794	36,794
600	Shandwick place - OLE bases affecting utilities (Piling)	0		0	-66,017	-66,017
604	St Andrew Sq - OLE bases affecting utilities (Piling)	0		0	-31,963	-31,963
606	York Place - Waverley Bridge - Works Delayed and disrupted as a result of works carried out by Third parties	0		0	1,888	1,888
609	Traffic Management provision in section 1A	133,140		-130,000	0	3,140
618	Gogar Depot 1800 mm Diameter Manhole - TQ736	6,176		-15,000	0	-8,824

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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
619	Omit Track Welding Equipment	-14,420		3,000	0	-11,420
629	Utilities affecting Track Excavation at Shandwick Place (S1)	0		0	-6,900	-6,900
630	Utilities affecting Track Excavation at Shandwick Place (S2)	0		0	12,573	12,573
631	Third parties affecting progress at Shandwick Place (S2)	0		0	-362	-362
633	Ponding on Princes St at junctions of Frederick St/Castle St	0		0	-40,000	-40,000
637	St Andrew Square Pedestrian Crossing	0		0	5,000	5,000
639	York Place - Traffic Management Design	0		0	10,000	10,000
640	Unimog Insurance	0		-1,000	0	-1,000
641	Cathedral Lane substation - scope change to suit Henderson Global requirements. Excludes demolition.	0		0	281,000	281,000
644	Finials for On Street Poles	0		0	30,000	30,000
645	Princes Street Outstanding Works	0		0	290,000	290,000
646	Cabinet Position For Street Lighting	0		0	20,000	20,000
647	Design work to support VE on carriageway reconstruction & kerb realignment	0		10,000	0	10,000
648	Cabinet Position For Street Lighting - design	0		10,000	0	10,000
650	Princes Street Blister	0		0	10,000	10,000

Infraco Cost Report Section 8 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
651	Defer Off Street Tramstop Shelter Installation and Fit-out	0		50,000	0	50,000
653	Provision of IFC Drawings in DWG CAD format	0		5,000	0	5,000
652	Maintenance of The Depot Workshop Equipment	0		49,633	0	49,633
655	Revise CCTV & PA coverage at Murrayfield tram stop	0		5,000	0	5,000
656	Defer On Street Tramstop Shelter Installation and Fit-out	0		0	10,000	10,000
657	Drainage As Built Drawings - Princes Street	0		15,000	0	15,000
Total		248,343	0	1,633	548,272	798,248
Anticipated Change				-90,000	-259,760	-349,760
Opportunities				0	0	0
Change to Anticipated Final Cost		248,343	0	-88,367	288,512	448,488
Contributions				60,000	70,000	130,000
Change to Anticipated Final Project Cost		248,343	0	-148,367	218,512	318,488

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	4,861	7,773	2,912	4,861	7,773	0	11,836	0	0	19,609	-188	19,421	11,648	149.9%	9,613	-1,840
McNicholas	1,812	4,763	6,575	1,812	4,763	6,575	0	7,379	0	0	13,954	-188	13,766	7,191	109.4%	8,056	-1,481
01 Conflicts	1,812	2,547	4,359	1,812	2,547	4,359		3,057			7,416		7,416	3,057	70.1%	4,272	87
01A Drainage		444	444		444	444		1,536			1,980		1,980	1,536	345.9%	1,810	-1,366
01B Grosvenor St / Haymarket Sewer Collapse		0	0		0	0		188			188		0	0		46	-46
01C Tower Place Bridge		0	0		0	0		50			50		50	50		50	-50
01D Princes Street Outstanding Works		0	0		0	0		143			143		143	143		46	-46
02 Legacy Works		500	500		500	500		594			1,094		1,094	594	118.8%	734	-234
03 Standby Team		0	0		0	0		0			0		0	0		0	0
04 Management Team		549	549		549	549		1,003			1,552		1,552	1,003	182.7%	576	-27
05 Design Team		692	692		692	692		764			1,456		1,456	764	110.4%	499	193
06 Accomodation		31	31		31	31		44			75		75	44	141.9%	23	8
Statutory Utility Companies	0	1,198	1,198	0	1,198	1,198	0	1,757	0	0	2,955	0	2,955	1,757	146.7%	1,152	46
01 Scottish Power		126	126		126	126		136			262		262	136	107.9%	107	19
02 Scottish Gas Networks		55	55		55	55		75			130		130	75	136.4%	38	17
03 Scottish Water		505	505		505	505		1,021			1,526		1,526	1,021	202.2%	630	-125
04 Virgin Media		104	104		104	104		177			281		281	177	170.2%	131	-27
05 Verizon		20	20		20	20		-10			10		10	-10	-50.0%	8	12
06 Cable & Wireless		49	49		49	49		98			147		147	98	200.0%	42	7
07 Fibrenet		250	250		250	250		-56			194		194	-56	-22.4%	194	56
08 BT		89	89		89	89		450			539		539	450	505.6%	75	14
09 Siemens		0	0		0	0		16			16		16	16		7	-7
12 Contributions (all companies)		0	0		0	0		-150			-150		-150	-150		-80	80
00 Legacy Works	1,100	-1,100	0	1,100	-1,100	0		2,700			2,700		2,700	2,700		405	-405

Comments:
All values are in £k.
Conflict resolution forecast to complete based resourced schedule.
Legacy works forecast based on current budget. Work is iongoing to establish the full scope.

Risk
Refer to Risk register for risks identified against McNicholas programme
All risk is held at programme level. This section of the cost report makes no allowance for risk.

Actions
Drainage scope and extent of work emerging. Provisional allowance included at present.
Full forecast of legacy scope of works to be carried out once scope is properly defined.

Appendix 4 – Change Log



TNC No.	PMIC No.	ICD No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	T&T Change Owner	Change Category DC/UK/CR/SR	Budget Cost for Risk and Potential Changes	Date TNC Issued	Letter Ref	Date Estimate Due	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved BY CEC/T&T	Date Approved or Rejected	Agreed Cost for Approved Contract Changes	Date TCO Issued	TCO Letter Ref	Comments	
501	001	502	Hawthornvale Cycle Link	Change the design to widen the footway alongside the south side of Lindsay Road	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R	N/A	21/06/2011	INF CORR 7787	N/A	05/08/2011	£20,020.51	£0.00		19/10/2011	CEC	20/10/2011	£20,020.51	24/10/2011	INF CORR 7734	Previously PWTNC-001	
502	002	508	Ocean Drive Footway	Amend the design of Ocean Drive to reinstate the footpath to the north of Ocean Drive	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R		21/06/2011	INF CORR 7786	N/A	15/08/2011	£10,230.82	£0.00		N/A	T&T	26/10/2011	£10,230.82	26/10/2011	INF CORR 7941	Previously PWTNC-002	
503	003	515	Depot Access Bridge	Amend the design of the OLE at the Depot Access Bridge to enable construction of the Depot	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	C/R		21/06/2011	INF CORR 7785	N/A	04/08/2011	£69,223.43	£0.00		24/11/2011	CEC	30/11/2011	£67,646.03	30/11/2011	INF CORR 7993	Previously PWTNC-003	
504	004	506	Blenheim Place	Review of the banned right turn into Blenheim Place as part of the design for Section 1C2 roads	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R		21/06/2011	INF CORR 7788	N/A	05/08/2011	£46,247.09	£0.00		19/10/2011	CEC	20/10/2011	£46,247.09	24/10/2011	INF CORR 7938	Previously PWTNC-004	
505	005	513	York Place Terminal Point	Production of a feasibility report, initial feasibility design for option ii), run time modelling etc	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R		20/07/2011	INF CORR 7817	15/08/2011	19/10/2011	£228,652.80	£0.00		24/11/2011	CEC	24/11/2011	£228,652.80	25/11/2011	INF CORR 7991	Previously PWTNC-005	
506	006	503	The Mound	Design for providing a new cycleway from the Mound to Princes Street	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R		21/06/2011	INF CORR 7789	N/A	05/08/2011	£9,436.93	£0.00		19/10/2011	CEC	20/10/2011	£9,436.93	24/10/2011	INF CORR 7935	Previously PWTNC-006	
506.1	006	503.1	The Mound	Design for providing a new cycleway from the Mound to Princes Street	Historic Post Mediation Change	On Street	Clause 80	IAW	C/R		21/06/2011	INF CORR 7789	N/A	23/01/2012	£1,668.71	£0.00		30/01/2012	CEC	03/02/2012	£1,668.71	30/01/2012		Additional to TCO 503	
507	007	504	St Andrew Square	Provide a clarification report and completion of the St. Andrew Square Public Realm design	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R		21/06/2011	INF CORR 7790	N/A	23/08/2011	£133,075.48	£0.00		19/10/2011	CEC	20/10/2011	£133,075.48	24/10/2011	INF CORR 7936	Previously PWTNC-007-TCO 504 Rev A issued 15/12/11	
507.1	007		St Andrew Square	Design completion information to reflect input from informal consultation with CEC	Design for future use by CEC	On Street	Clause 80	RL	C/R		29/03/2012	INF CORR 8219	26/04/2012					04/04/2012	CEC	04/04/2012				NOTE RETURN DATE OF ESTIMATE OF 26TH APRIL	
508	013	507	Eastfield Avenue	Obtain EAL approval for the highways design drawings at Eastfield Avenue tram crossing	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	D/C		11/07/2011	INF CORR 7804	04/08/2011	05/08/2011	£10,025.09	£0.00		19/10/2011	CEC	20/10/2011	£10,025.09	24/10/2011	INF CORR 7939	Previously PWTNC-008	
509	008	519	Cathedral Lane Substation	Design of Cathedral Lane Substation	Historic Post Mediation Change	On Street	Clause 80	AS/GMG			12/07/2011	INF CORR 7799	02/08/2011	09/11/2011	£233,595.67	£0.00		13/12/2011	CEC	15/12/2011	£233,595.67	15/12/2011	INF CORR 8027	Previously PWTNC-009 - instructed to proceed in TNC letter but awaiting CEC approval to issue TCO	
510	011		Murrayfield	Murrayfield Accommodation Works	Change Withdrawn																				
511	010	511	Gogar Lane	Storm Water Connection from Gogar Lodge to the landowners new septic tank	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	C/R		13/07/2011	INF CORR 7815	N/A	14/11/2011	£5,850.29	£0.00		N/A	T&T	21/11/2011	£5,750.46	21/11/2011	INF CORR 7983	Previously PWTNC-011	
512	012	505	Ocean Terminal	Re-design of Ocean Terminal Bypass Road	Historic Post Mediation Change	On Street	Clause 80	AS/GMG			13/07/2011	INF CORR 7814	N/A	29/08/2011	£53,685.15	£0.00		19/10/2011	CEC	20/10/2011	£53,685.15	24/10/2011	INF CORR 7937	Previously PWTNC-012 - TCO 505 Rev A issued 24/02/12, signed TCO returned by BBS 9/03/12	
513	015	526	Various	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	Historic Post Mediation Change	On Street	Clause 80	RL	D/C	£400,000.00	20/07/2011 07/09/2011 (A&B) 30/09/2011 (C&D)	INF CORR 7818 INF CORR 7895	Various 09/11/11		£43,547.07 £51,211.55			15/12/2011	CEC	21/12/2011	£156,870.49	06/01/2012	INF CORR 8053	Previously PWTNC-013 - Estimates Outstanding for 13 and being reviewed for A&B and C&D, TCO 526A issued 20/02/12 for design works (covers A, B, C, D)	
513.1	015	526	Various	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	Historic Post Mediation Change	On Street	Schedule 45	RL	D/C		30/09/2011 (E)	OSW 004 OSW 005	Various N/A		N/A			15/12/2011							13E is now a PAV being actioned under Schedule Part 45 TCO526A issued 20/02/12 for design works
514	016	554	Various	Utility Mapping	Historic Post Mediation Change	On Street		AS/GMG			22/07/2011	INF CORR 7825	17/08/2011	16/12/2011	£92,756.07	£0.00		27/02/2012	CEC	27/02/2012	£92,756.07	29/02/2012	INF CORR 8168	AGREED	
515	014		Edinburgh Gateway	Edinburgh Gateway 33kV Cable Protection	Historic Post Mediation Change	Off Street		AS/GMG			02/08/2011	INF CORR 7828	02/12/2011		Costs included in TNC-531										Previously PWTNC-015 - instructed to proceed in TNC letter. NOW SUPERSEDED BY TNC 531.
516	017	565	Depot & Mini Test Track	Additional Watermain requirement at Depot and Mini Test Track	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	D/C		08/09/2011	INF CORR 7893	09/12/2011	13/12/2011	£0.00	£51,281.72	N/A	16/04/2012	CEC	24/04/2012	£51,281.72	26/04/2012	INF CORR 8274		
517	018	539	Depot & Mini Test Track	Additional BT Ducts at Depot and Mini Test Track	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG			08/09/2011	INF CORR 7894	09/12/2011	13/12/2011	£0.00	£3,208.66			T&T		£2,995.95	16/01/2012	INF CORR 8072	Previously PWTNC-016 - instructed to proceed in TNC letter	
518			The Mound	Design & installation of a new cycleway through the Mound / Haover Street Junction - SEE TNC 506 (WITHDRAWN)		On Street					09/09/2011													Previously PWTNC-018 - Withdrawn (Duplicates 506)	
519			York Place	Design of a temporary tram stop in York Place (WITHDRAWN)		On Street					09/09/2011													Previously PWTNC-019 - Withdrawn (Duplicates 506)	
520	009	553	Depot	Valve chamber access and alteration works to 800mm water main at the Depot	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG			18/05/2011	INF CORR 7729	13/06/2011	24/10/2011		£105,786.20			16/02/2012	CEC	20/02/2012	£105,326.16	28/02/2012	INF CORR 8160	Previously PWTNC-020 - Estimate reviewed and issued back to BBS with comments, signed TCO returned by BBS 9/03/12
521	028		Haymarket	Temporary Accommodation	To provide accommodation for M&Nichols	On Street	Schedule 45	RL		£2,876.75	07/10/2011	INF CORR 7926	01/11/2011	14/11/2011	N/A	£4,912.00			N/A	T&T	07/10/2011				
522	029	N/A	Haymarket 1	Road Reconstruction		On Street	Schedule 45	IAW/RL	DC	£538,611.33	07/10/2011	INF CORR 7927	02/11/2011	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	07/10/2011	CEC	07/10/2011					RI/M - RE ISSUE AS REV A ONCE ON STREET TNC 584 FOR ALLON STREET RAISED
523	030		Haymarket 1	Additional CBR / Plate Testing		On Street	Schedule 45	SL		£10,000.00	07/10/2011	INF CORR 7928	02/11/2011		Costs included in Site Investigation										£300 included in PMC 025, TRANSFER TO S22 FOR ROAD RECONSTRUCTION
524	019		Airport to Gyle	NIL Design Finalisation (also includes Construction)		Off Street	Clause 80	AS/GMG		£30,000.00	30/09/2011	INF CORR 7905	20/01/2012	14/05/2012	see Construction	£40,559.18									ESTIMATE REV C 14-5-2012-56 GET AGREEMENT & RAISE TCO
525	026		Airport to Gyle	Site Access for Remedial Works		Off Street	Clause 80	AS/GMG		£50,000.00	30/09/2011	INF CORR 7906	26/10/2011	N/A	N/A										SUPERSEDED BY 525.1
525.1	026		Airport to Gyle	Site Access for Remedial Works		Off Street	Clause 80	AS/GMG		£50,000.00	22/11/2011	INF CORR 7978	23/01/2012												SEE TNC 576 FOR UPDATE
526	027	518	Airport to Gyle	Tram Delivery Temporary Works		Off Street	Clause 80	AS/GMG			07/10/2011	INF CORR 7918	02/11/2011	14/11/2011	Nil	£6,940.24			N/A	T&T	08/12/2011	£6,878.44	12/12/2011	INF CORR 8008	GE - AGREE COSTS WITH BBS, ISSUE TNC/TCO
527			Ingliston	Reimbursement of Costs paid directly to SGN for the diversion of approximately 120m of 10" steel IP gas main to accommodate the new Edinburgh Tram at Ingliston		Off Street	Clause 80	AS/GMG	C/R																
528	037	501	Haymarket 1	Slit trench excavation to validate utilities		On Street	Schedule 45	SL	U/C	£1,345.00	18/10/2011	INF CORR 7923	11/11/2011			£10,000.00			N/A	T&T	19/10/2011				
529	022	524.1	Section 5C - Gogar Castle Access Road	Design Gogar Castle Access Road from crossing and approaches		Off Street	Clause 80	AS/GMG	C/R		26/10/2011	INF CORR 7944	21/11/2011	15/12/2011	£39,401.86	£22,728.57		15/12/2011	CEC	16/12/2011	£31,308.00	17/01/2012	INF CORR 8040 + 8085	Previously issued as TNC 129	
530	023	525	Section 6 - Depot Access Road	Amend the design of the Depot Road turning head as per RDC191, Option 2		Off Street	Clause 80	AS/GMG	C/R		27/10/2011	INF CORR 7949	22/11/2011	18/10/2011	£30,458.40	Nil		N/A	T&T		£30,458.40	15/12/2011	INF CORR 8030	Previously issued as TNC 130	
531	014	532	Edinburgh Gateway	Advance Temporary Works design	Early implementation of the temporary works will enable the RTM works to commence as soon as the	Off Street	Clause 80	AS/GMG	D/C		28/10/2011	INF CORR 7951	09/12/2011	07/12/2011	Nil	£790,185.14			TS	21/12/2011	£9,349.00	21/12/2011	INF CORR 8049	Works requested and cost approved by Transport Scotland	
532			Princes Street	Temporary traffic management design - WITHDRAWN		On Street																			Withdrawn
533	040		Princes Street	500mm Water Main Diversion	To divert the water main from an OLE base	On Street	N/A	MO/RL	U/C		31/10/2011	INF CORR 7952	28/10/2011		£40,844.00			28/10/2011	CEC	31/10/2011					Approval AC/TH e-mail - Superseded by TNC 535
534	041	556	SP Insurance Ducts	Install insurance ducts at locations and in formations and sizes as specified	Provision of Scottish Power insurance ducts to fulfill its agreement with SP	Off Street	Clause 80	AS/GMG		£10,885.00	31/10/2011	INF CORR 7953	28/10/2011	23/02/2012	N/A	£6,011.29			30/04/2012	CEC	30/04/2012	£5,636.59	01/05/2012	INF CORR 8291	
535	040		Princes Street	500mm Water Main Diversion - rev 3 dwg		On Street	Schedule 45	MO/RL	S/R		07/11/2011	INF CORR 7962	29/11/2011							T&T	08/11/2011				Replaces TNC 533
536	049	517	System Wide	Tramstop Cabinets - reduction in 10 years maintenance liability	To meet cooling/heating reqts, cabinets to be IP55 in lieu of IP45	Off Street	Clause 80	LM		£6,081.40	09/11/2011	INF CORR 7959	09/12/2011							T&T	08/11/2011				
537			Haymarket 1	Additional visit of Tar planer to facilitate slewing of BT ducts - WITHDRAWN																					Withdrawn
538	048	520	Depot	Tramwash Continuous Mode - Requirement for additional hand lances washers	The tram wash continuous mode may leave a small residual area to be cleaned	Off Street	Clause 80	GMG	C/R	£0.00										T&T	13/12/2011	£0.00	13/12/2011	INF CORR 8019	Previously issued as TNC 118 and TNC 118A. Cost neutral as any savings / costs are included in the Settlement Agreement
538.1	048	520.1	Depot	Tramwash Continuous Mode - Requirement for additional hand lances washers	The tram wash continuous mode may leave a small residual area to be cleaned	Off Street	Clause 80	GMG	C/R	£0.00										T&T	12/01/2012	£0.00	12/01/2012	INF CORR 8058	Previously issued as TNC 118 and TNC 118A. Cost neutral as any savings / costs are included in the Settlement Agreement
539	020	529	System Wide	Delay in signing - impact on commencement and completion		Off Street	Clause 80	GE			21/12/2011	INF CORR 8051	N/A	28/10/2011	£4,759,000.00			28/10/2011	CS	21/12/2011		£0.00	21/12/2011	INF CORR 8051	Cost still to be determined by Colin Smith

TNC No.	PMC No.	ICO No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	T&T Change Owner	Change Category DC/LC/CR/SR	Budget Cost for Risk and Potential Charges	Date TNC Issued	Letter Ref	Date Estimate Due	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved By CEC/T&T	Date Approved or Rejected	Agreed Cost for Approved Contract Changes	Date TCO Issued	TCO Letter Ref	Comments		
549	045	510/521.2	Princes Street	Amend the design of the St. Johns Church OLE bases	To avoid conflict with services	On Street	Clause 80	SL	U/C	£6,000.00	21/11/2011	INF CORR 7980	15/12/2011				N/A	T&T	21/11/2011		21/11/2011	INF CORR 7980	COSTS NOW COLLATED AGAINST TCO 521 B			
550	045	514/521.2	Shandwick Place	Shandwick OLE & Landscape Design Revision	A number of utility conflicts that can be addressed by utilising a piled solution	On Street	Clause 80	SL	U/C	£30,000.00	23/11/2011	INF CORR 8025	19/12/2011				N/A	T&T	23/11/2011		23/11/2011	INF CORR 8025	COSTS NOW COLLATED AGAINST TCO 521 B			
551	043	N/A	Princes Street	2011 Christmas Embargo - Temporary Surfacing of Track Infills	To allow Princes Street to be opened to pedestrians	On Street	N/A	KM	PAV	£300,000.00	N/A	N/A	N/A	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA				£203,510.77	N/A	N/A	Pricing Assumption Variation		
552	044	N/A	Princes Street	BT diversion @ junction of Princes Street and South St. David Street		On Street	N/A	KM	PAV	£40,000.00				N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA					N/A	N/A	Pricing Assumption Variation		
553	048	516	Site Wide	SDS to provide the services of Matt Fell until end March 2012	To assist in the Utilities design	On Street	Clause 80	SL	U/C	£75,000.00	30/11/2011	INF CORR 7989	26/12/2011		£69,130.85	N/A	None	02/02/2012	CEC	03/02/2012	£69,130.85	30/11/2011	INF CORR 7989			
553	048	516.1	Site Wide	SDS to provide the services of Matt Fell until 17th August 2012	To assist in the Utilities design	On Street	Clause 80	SL	U/C	£41,000.00	30/11/2011	INF CORR 7989	26/12/2011		£41,000.00	N/A	None	28/05/2012	CEC	28/05/2012		30/05/2012	INF CORR 8341	TCO RAISED UNDER CLAUSE 80.15, N/E £ 110K		
554	052		St Andrew Square & Shandwick Place	Traffic Management Requirements	To facilitate early access	On Street	Schedule 45	RL	D/C	N/A	12/12/2011	INF CORR 7998	N/A	N/A				CEC	08/12/2011	N/A	N/A	N/A	N/A			
554.1	052		St Andrew Square & Shandwick Place	Traffic Management Requirements	To facilitate early access	On Street	Schedule 45	RL	D/C	N/A	12/01/2012	INF CORR 8066	N/A	N/A				CEC	08/12/2011	N/A	N/A	N/A	N/A	TNC Wording Amended		
555	045	523	Haymarket	OLE 198B design revision to avoid main sewer	To avoid conflict with sewer	On Street	N/A	SL	U/C	£180,000.00	13/12/2011	INF CORR 8017	N/A	N/A	N/A	N/A Schedule 45	N/A Schedule 45	TBA				13/12/2011	INF CORR 8017	Pricing Assumption Variation		
556			York Place to Newhaven	Track Work Materials York Place to Newhaven - Price Paving for Rheda City C and D	There is currently no budget allowance to fund this	On Street	Clause 80		C/R									CEC	14/12/2011			N/A	N/A	Confirmation of instruction given by Colin Smith and issued by letter to BBS		
557	045	521	Haymarket 1	OLE Base Relocations	Utility Gashes	On Street	Clause 80	KM	U/C	£20,000.00	13/12/2011	INF CORR 8016	06/01/2012				N/A	T&T	13/12/2011	SEE 521.2	13/12/2011	INF CORR 8016	TCO 521 issued with value £ TBA			
557	045	521.1	Haymarket 1	OLE Base Relocations (Revised TCO to increase N/E Value)	Utility Gashes	On Street	Clause 80	RL	U/C	£20,000.00	N/A	N/A	N/A				SEE 521.2	N/A	TBA	27/02/2012	CEC	27/02/2012	SEE 521.2	29/02/2012	INF CORR 8167	TCO 521 Rev A issued to increase. Not To Exceed £40k issued & approved CEC 27/2/12, returned signed by BBS 9/03/12
557	045	521.2	Haymarket 1	OLE Base Relocations (Revised TCO to increase N/E Value)	Utility Gashes	On Street	Clause 80	RL	U/C	£60,000.00	N/A	N/A	N/A				SEE 521.2	N/A	TBA	04/04/2012	CEC	04/04/2012	SEE 521.2	05/04/2012	INF CORR 8237	TCO 521 Rev B ISSUED TO INCREASE. NOT TO EXCEED TO £100K. AGREE FINAL COST. TNC 549, 550, 562 AND 563 AGAINST TCO 521, TO OEGSS MATCH WITH BBS PMC 45
558	051	522	Site Wide	Provision of a CAD Technician	To progress VE proposals in relation to pavement reconstruction	On Street	Clause 80	RL		£2,000.00	13/12/2011	INF CORR 8015	06/01/2012				N/A	T&T	13/12/2011		13/12/2011	INF CORR 8015	TCO issued under Clause 80.15 and updated with TCO522A issued 2nd Feb 2012			
558.1	051	522.1	Site Wide	Provision of a CAD Technician	To progress VE proposals in relation to pavement reconstruction	On Street	Clause 80	RL		£2,000.00	13/12/2011	INF CORR 8015	06/01/2012	23/01/2012	£1,693.00		N/A	T&T	13/12/2011		13/12/2011	INF CORR 8015				
559	053	545	York Place	Detailed Design of York Place Terminal	Terminal point excluded from the Settlement Agreement	On Street	Clause 80	RL	C/R		15/12/2011	INF CORR 8033	10/01/2012		£56,438.11			CEC	03/02/2012	03/02/2012	£56,438.11	03/02/2012	INF CORR 8118	TCO ISSUED 3.7.12 AS N/EXCEED £ 56,438.11		
560	080	N/A	St Andrew Square	Omit £0.7m of repairs to road surface finishing	Value engineering initiative	On Street	Schedule 45	RL	C/R	-£700,000.00	13/02/2012	INF CORR 8137	N/A - Schedule 45	N/A	N/A	-£700,000.00	TBA	09/04/2012	CEC	04/02/2012		N/A	N/A	OMIT WILL COME THROUGH SCHEDULE 45 PERIOD END PROCESS. MONITOR SEE ABOVE		
560.1	080	N/A	St Andrew Square	Omit £0.7m of repairs to road surface finishing (Revision for Street and Traffic Lighting)	Value engineering initiative	On Street	Schedule 45	RL	C/R	SEE ABOVE	30/03/2012	INF CORR 8221	N/A - Schedule 45	N/A	N/A	SEE ABOVE	TBA	04/04/2012	CEC	04/04/2012		N/A	N/A	SEE ABOVE		
561	059	528	Forth Ports Area	Omit all works at the Forth Ports area	Works not required as part of this agreement	On Street	Clause 80	GE	C/R	£2,443,000.00	21/12/2011	INF CORR 8050	16/01/2012				N/A	N/A	N/A	N/A	-£2,443,000.00	21/12/2011	INF CORR 8050	Instructed by Colin Smith		
562	045	530/521.2	On Street Generally	OLE Design Changes for On Street Section (PMCO45) - SIEMENS DESIGN WORKS	To accommodate relocations of OLE bases due to the position of existing services	On Street	Clause 80	GE	D/C	£20,000.00	05/01/2012	INF CORR 8052	31/01/2012					CEC	22/12/2011		05/01/2012	INF CORR 8052	COSTS NOW COLLATED AGAINST TCO 521 B			
563	045	534/521.2	On Street Generally	Circular Pile Caps	It reduces the size of the pile cap and by default the local impact upon utilities, moreover it makes for more expedient/efficient working as the pile cap can be done without a requirement for any extra digging etc.	On Street	Clause 80	SL	D/C	£5,000.00	21/12/2011	INF CORR 8044	16/01/2012				N/A	T&T	09/01/2012		09/01/2012	INF CORR 8055	COSTS NOW COLLATED AGAINST TCO 521 B			
564	055	541	On Street Generally	Worksite Modelling - TNC & TCO (531) WITHDRAWN 12.1.12	Requested by Andy Conway of CEC	On Street	N/A	RL	C/R	£10,000.00	21/12/2011	INF CORR 8045	16/01/2012	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	N/A	T&T	21/12/2011	£10,000.00	21/12/2011	INF CORR 8045	Pricing Assumption Variation. Originally under Clause 80, now Schedule 45		
565	054	533	Edinburgh Gateway	Advanced design works for Edinburgh Gateway Minimum Option	Works requested by Transport Scotland to assess and protect the current programme assumptions for both the Edinburgh Tram project and Edinburgh Gateway proposals	Off Street	Clause 80	AS	C/R	£2,650.00	21/12/2011	INF CORR 8048	16/01/2012					T&T	12/01/2012		£2,650.00	21/12/2011	INF CORR 8048	Works requested and cost approved by Transport Scotland		
565.1	054	533.1	Edinburgh Gateway	Advanced design works for Edinburgh Gateway Minimum Option	Extension of above to cover additional design work					£3,350.00											12/01/2012	12/01/2012	INF CORR 8070	Rev A issued 12/01/12 increasing value from £2,650 to £6,000		
565.2	054	533.2	Edinburgh Gateway	Advanced design works for Edinburgh Gateway Minimum Option	Rewording of TCO 533A to align with agreed scope - no additional value					n/a										n/a	19/01/2012	19/01/2012	INF CORR 8088	Rev B issued amending the requirement		
566	046	535	On Street Generally	Ducting Design Changes Due to Utilities Conflicts	To prevent delay by providing a solution for potential utilities conflicts in advance	On Street	Clause 80	RL	D/C	£10,000.00	12/01/2011	INF CORR 8062	N/A	N/A	N/A	N/A		N/A	T&T	11/01/2012		£10,000.00	11/01/2012	INF CORR 8062		
566	046	535.1	On Street Generally	Ducting Design Changes Due to Utilities Conflicts	To prevent delay by providing a solution for potential utilities conflicts in advance	On Street	Clause 80	RL	D/C	£50,000.00				N/A	N/A	N/A		01/06/2012	CEC	01/06/2012		01/06/2012	INF CORR 8363			
567	050	536	On Street Generally	Drainage Design Changes Due to Utilities Conflicts	To prevent delay by providing a solution for potential utilities conflicts in advance	On Street	Clause 80	RL	D/C	£10,000.00	12/01/2011	INF CORR 8061	N/A	N/A	N/A	N/A		N/A	T&T	11/01/2012		£10,000.00	11/01/2012	INF CORR 8061		
567.1	050	536.1	On Street Generally	Drainage Design Changes Due to Utilities Conflicts	To prevent delay by providing a solution for potential utilities conflicts in advance	On Street	Clause 80	RL	D/C	£40,000.00								14/05/2012	CEC	14/05/2012			INF CORR 8313	TCO RAISED TO INCREASE NOT TO EXCEED VALUE TO £ 50,000.00 ISSUED 14TH MAY 2012		
567.1	050	536.2	On Street Generally	Drainage Design Changes Due to Utilities Conflicts	To prevent delay by providing a solution for potential utilities conflicts in advance	On Street	Clause 80	RL	D/C	£50,000.00								28/05/2012	CEC	28/05/2012			INF CORR 8344	TCO RAISED TO INCREASE NOT TO EXCEED VALUE TO £ 100,000.00 ISSUED 14TH MAY 2012		
568	047	537	On Street Generally	Design changes due to Trackform conflicts	To prevent delay by providing a solution for potential utilities conflicts in advance	On Street	Clause 80	RL	D/C	£10,000.00	12/01/2011	INF CORR 8063	N/A	N/A	N/A	N/A		N/A	T&T	11/01/2012	SEE 537.1	11/01/2012	INF CORR 8063			
568.1	047	537.1	On Street Generally	Design changes due to Trackform conflicts	To prevent delay by providing a solution for potential utilities conflicts in advance	On Street	Clause 80	RL	D/C	£20,000.00	N/A	N/A	TIME CHARGE	N/A	N/A	N/A		16/04/2012	CEC	16/04/2012		18/04/2012	INF CORR 8249	TCO RAISED TO INCREASE NOT TO EXCEED VALUE TO £ 30,000.00		
569	057	538	Edinburgh Park	Additional Running Costs associated with the extension to the Edinburgh Park offices	To provide services for the office extension instructed under TNC 544 and ICO 512	Off Street	Clause 80	CS	C/R	£79,200.00	11/01/2012	INF CORR 8064	N/A	N/A	N/A	N/A		N/A	CS	31/10/2011		£79,200.00	11/01/2011	INF CORR 8064	Approved by Colin Smith	
570	058	N/A	Shandwick Place	Omit the Removal of Trees in Shandwick Place	It is considered more expedient for the contractor that is currently working in the area carrying out similar works to undertake the works currently contracted to BBS also.	On Street	Schedule 45	RL	D/C	-£9,100.00	12/01/2012	INF CORR 8065	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	N/A	T&T				N/A	N/A	HW - H MUNRO TASKED WITH GETTING AGREEMENT FOR OSWE	
571	064		Hope Street	Hope Street Junction Design	Legacy works following MUOFA	On Street	Clause 80	RL	C/R	£5,000.00	19/01/2012	INF CORR 8089	13/02/2012					CEC	01/06/2012		01/06/2012					
571.1	064	573	Hope Street	Hope Street Junction Design	Legacy works following MUOFA	On Street	Clause 80	RL	C/R		14/05/2012	INF CORR 8312	08/05/2012					TBA	01/06/2012	CEC	01/06/2012		01/06/2012			
572	062	540	Cathedral Lane Substation	Retaining Wall Design	Site investigation shows an unreinforced retaining wall adjacent to the sub-station site	On Street	Clause 80	RL	C/R	£5,000.00	19/01/2012	INF CORR 8086	13/02/2012	01/05/2012	£34,458.86				T&T	19/01/2012		18/01/2012	INF CORR 8086	ISSUED AS CLAUSE 80.15 TCO		
573	061		Roseburn	Non DDA Compliant Footpath (ROSEBURN DELTA)	CEC requirement to explore alternative solutions	Off Street	Clause 80	SM	C/R		19/01/2012	INF CORR 8090	14/02/2012								09/01/2012					
573.1	061		Roseburn	Non DDA Compliant Footpath (ROSEBURN DELTA)	Proposed Solution	Off Street	Clause 80	SM	C/R		23/03/2012	INF CORR 8202	18/04/2012						CEC	26/03/2012		26/03/2012				
574	063	542	Haymarket Station	Delete viaduct cladding	To interface with the Network Rail works	Off Street	Clause 80	SM	D/C	-£10,000.00	19/01/2012	INF CORR 8091	14/02/2012						T&T	19/01/2012		19/01/2012	INF CORR 8091	REVISED TNC NOW ISSUED		
575	060	N/A	Haymarket Station	Take Down Haymarket Station Viaduct, Staircase and Parapet. TNC NOW WITHDRAWN NETWORK RAIL CARRYING OUT WORKS	To interface with the Network Rail works at Haymarket Station	Off Street	Clause 80	SM	C/R	N/A	19/01/2012	INF CORR 8092	14/02/2012	09/03/2012	N/A	£34,844.41	N/A		N/A	N/A	N/A	N/A	N/A	N/A	ESTIMATE RETURNED FROM BBS 22ND MARCH 2012, SB INVESTIGATE, AGREE & RAISE TCO	
576	026	543	Airport to Gyle	Reinstatement to 250mm Watermain Remedial Works	To restate the finished works following remedial works undertaken by Clancy Dowra	Off Street	Clause 80	SM	D/C	£60,000.00	24/01/2012	INF CORR 8105	17/02/2012	22/02/2012	N/A	£55,238.44	N/A		CEC	27/01/2012		£36,787.81	26/04/2012	INF CORR 8273	TNC NOW WITHDRAWN NETWORK RAIL WILL UNDERTAKE WORKS, ALTHOUGH WILL BE DESIGN COST FOR SDS PASSING INFO ON TO NEW	
577	065	544	Haymarket Viaduct	Deletion of Sub Station Retaining Wall and Plinth	To interface with the Network Rail works at Haymarket Station	Off Street	Clause 80	SM	D/C	-£10,000.00	26/01/2012	INF CORR 8098	21/02/2012	06/03/2012		£1,580.31			T&T	27/01/2012				INF CORR 8098	ESTIMATE REC'D FROM BBS 6TH MARCH 2012, SB TO GET AGREEMENT & RAISE TCO (LINKED SEE TNC 575)	
578	066	546	Site Wide	SI Provisional Sum Allowance	To remove unexpended provisional sums from the contract value	On Street	Clause 80	MM	D/C	-£57,984.00									CEC	03/02/2012		-£57,984.00	02/02/2012			
579	N/A	N/A	On Street Generally	Removal of embank and revised traffic management		On Street	Clause 80	SM	C/R										CEC						LETTER ISSUED	

TNC No.	PMC No.	ICO No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	T&T Change Owner	Change Category DC/UC/C/R/S/R	Budget Cost for Risk and Potential Charges	Date TNC Issued	Letter Ref	Date Estimate Due	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved BY CEC/T&T	Date Approved or Rejected	Agreed Cost for Approved Contract Changes	Date TCO Issued	TCO Letter Ref	Comments	
586.1	70	557	On Street Generally	St Andrew Square - Value Engineering Design Changes (Revision for Street and Traffic Lighting)	Value engineering initiative	On Street	Clause 80	RL	C/R		30/03/2012	INF CORR 8220	26/04/2012	01/05/2012	£15,227.51	N/A		04/04/2012	CEC	04/04/2012				I/W/RL - ONCE EFFECT OF ORIGINAL AND REVISED TNC ESTABLISHED, GET AGREED, AND ISSUE REVISED TCO	
587	71		On Street Generally	Edinburgh Tram Granite Setts Design	Value engineering initiative	On Street	Clause 80	RL	DC		13/02/2012	INF CORR 8139	08/03/2012	N/A	N/A	N/A	TBA							TNC ISSUED	
587.1	71	555	On Street Generally	Edinburgh Tram Granite Setts Design	Value engineering initiative	On Street	Clause 80	RL	DC		13/03/2012	INF CORR 8187	06/04/2012	N/A	N/A	N/A	TBA	12/03/2012	CEC	12/03/2012			INF CORR 8187	REVISED TNC ISSUED + TCO FOR FIRST TIME	
587.2	71	555.1	On Street Generally	Edinburgh Tram Granite Setts Design (Revision details requirements for non setted areas, and changes bedding type for Setts.)	Value engineering initiative	On Street	Clause 80	RL	DC		10/05/2012	INF CORR 8307	01/06/2012		N/A	TBA	08/05/2012	CEC	08/05/2012				INF CORR 8307	Revised TNC + TCO ISSUED	
588	78	N/A	On Street Generally	Stafford St Return of Parking Spaces	To bring parking spaces back into operation		Schedule 45	RL	C/R	£0.00	20/02/2012	INF CORR 8147	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	16/02/2012	CEC	20/02/2012	£0.00	20/02/2012			Zero value change confirmed by BBS (email) TCO 551 RAISED & RETURNED FOR RECORD PURPOSES, AS ON STREET TCO
589	83	552	Airport	Decoping airport tramstop kiosk and canopy	Value engineering initiative	Off Street	Clause 80	SM	C/R	-£150,000.00	29/02/2012	INF CORR 8166	20/03/2012	N/A	N/A	-£150,000.00	None	27/02/2012	CEC	27/02/2012	-£150,000.00	29/02/2012	INF CORR 8166	TCO 589 RETURNED SIGNED BY BBS 16TH MARCH 2012	
590	073	N/A	The Mound	New cycleway from The Mound into Princes Street	Works to enable Mound to reopen to traffic	On Street	Schedule 45	RL	U/C		20/02/2012	INF CORR 8149	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	20/02/2012	CEC	20/02/2012		N/A	N/A		
591	85	563	Haymarket Viaduct	Diversion of Scottish Power Cable at Haymarket Viaduct	Works for Network Rail Station	Off Street	Clause 80	SM	U/C	£21,788.76	29/02/2012	INF CORR 8164	20/03/2012	22/03/2012	N/A	£21,788.76	Urgent TNC to avoid future	04/04/2012	CEC	04/04/2012	£21,788.76	02/02/2012	INF CORR 8225	TCO ISSUED, NEGOTIATE WITH NETWORK RAIL ON REFUND, AS NW REQUESTED CABLE MOVE	
592			Haymarket Yards	Realign kerbs at Car Park Entrance	Widen access into car park	Off Street	Clause 80	SM	U/C								ON HOLD							NOTE - ALASDAIR SIM OF CEC ADVISED PUT ON HOLD	
593	84	558	Secondary Phase 1a	Cessation of Design Work North of York Place	Design Cessation	On Street	Clause 80	RL	DC	£0.00	01/03/2012	INF CORR 8173	27/03/2012	04/05/2012	N/A	N/A	None						01/03/2012	INF CORR 8173	
594	14	559	Edinburgh Gateway	Edinburgh Gateway slope option - DESIGN	Design Development	Off Street	Clause 80	SM	DC		13/03/2012	INF CORR 8189	06/04/2012					05/03/2012	CEC	05/03/2012			13/03/2012		
594.1	14		Edinburgh Gateway	Edinburgh Gateway slope option (revision to Add for complete Design for Future Project) - DESIGN	Design Development	Off Street	Clause 80	SM	DC		30/03/2012	INF CORR 8222	SEE LETTER					04/04/2012	CEC	04/04/2012					TNC ISSUED
594.2	14		Edinburgh Gateway	Edinburgh Gateway slope option (revision requiring design of special trackform due to insufficient clearance between track and sewer) -	Design Development	Off Street	Clause 80	SM	DC		01/05/2012	INF CORR 8293	25.05.12					30/04/2012	CEC	30/04/2012					
594.3	14	559.1	Edinburgh Gateway	Edinburgh Gateway slope option (revision requiring design of OLE due to the sewer location) - DESIGN	Design Development	Off Street	Clause 80	SM	DC		11/06/2012	INF CORR 8371						11/06/2012					11/06/2012	INF CORR 8371	CEC HAVE APPROVED BUT NOT RECORDED
595		566	Haymarket Viaduct	Deletion of Crew Relief Facility	Design Development	Off Street	Clause 80	SM	DC	-£70,000.00	26/04/2012	INF CORR 8275	N/A - Rec'd 2/02/2012	02/04/2012	N/A			08/05/2012	CEC	08/05/2012	-£70,000.00	08/05/2012	INF CORR 8302		
596	68	N/A	Section 1D	Utilities clashing with manhole 1D/N04/03	Utilities conflict	On Street	Schedule 45	RL	PAV																TNC to track PAV
597		N/A	Section 1D	Omit disconnection of Bus Tracker	Works carried out by McIndrolas	On Street	Schedule 45	RL			15/03/2012	INF CORR 8193	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	19/03/2012	CEC	19/03/2012			N/A	N/A	
598	69	N/A	Section 1D	Clifton Terrace Void	Introduction of Geotextile Liner	On Street	Schedule 45	RL	PAV																TNC to track PAV
599	97	N/A	On Street Generally	Floating Track Slab - CONSTRUCTION	Design Development	On Street	Schedule 45	RL	DC	£980,000.00	01/05/2012	INF CORR 8289	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	24/04/2012	CEC	24/04/2012					TNC ISSUED
600	72	N/A	Section 1D	Utilities affecting the construction of OHLE foundations (PILING SHANDWICK)		On Street	Schedule 45	RL	PAV																I/W - PILING NOW SPLIT 1/1/D
601	89	560	Section 5C - Gogar Tram Stop	Change of Length of Shelter	RBS Requirement	Off Street	Clause 80	SM			15/03/2012	INF CORR 8190	10.4.12					19/03/2012	CEC	19/03/2012			15/03/2012	INF CORR 8190	SIGNED TCO RETURNED FROM BBS 26.3.12
602	90	562	North York Place	Omit PID Poles for Tramstops North of York Place	Track no longer goes beyond York Place	Off Street	Clause 80	RL	DC	-£23,740.00	20/03/2012	INF CORR 8196	N/A	N/A	N/A			04/04/2012	CEC	04/04/2012	-£23,740.00	29/03/2012	INF CORR 8218		ORIGINALLY RAISED AS CLAUSE 45, CHANGED TO CLAUSE 80, AGREED AND TCO ISSUED.
603				Bus Tracker Interface Specification																					LOTHIAN BUSES PREPARING BUS TRACKER SPEC
604	87	N/A	York Place - Waverley Bridge	Utilities affecting the construction of OHLE foundations (PILING)		On Street	Schedule 45	RL	PAV																NOTE - THIRD AND FINAL PART OF PILING FOR OTHER AREAS SEE TNC 600, AND 543.
605	86	561	Depot	Sub-Station Switching (£ 18K TO 15TH APRIL 2012, WILL GO BEYOND)	Full Operation Control Not Yet In Place	Off Street	Clause 80	SM	UC	TBA	05/04/2012	INF CORR 8236	N/A	N/A	N/A	£16,250.00	None	04/04/2012	CEC	04/04/2012	£16,250.00	05/04/2012			
605.1	86	561.1	Depot	Sub-Station Switching (NOW TO 15TH JULY 2012, WILL GO BEYOND)	Full Operation Control Not Yet In Place	Off Street	Clause 80	SM	UC	TBA	22/05/2012	INF CORR 8330	N/A	N/A	N/A	£16,250.00	None	28/05/2012	CEC	28/05/2012	£16,250.00	30/05/2012	INF CORR 8339		NOTE - MAKE SURE COST REPORT COVERS FOR PERIOD BEYOND 15TH JULY.
606	79	N/A	York Place - Waverley Bridge	Works Delayed and disrupted as result as result of works carried out by Third parties	Utilities conflict	On Street	Schedule 45	RL	PAV																INCLUDED PERIOD END 94 ESTIMATE
607	94	N/A	On Street Generally	Delete 110v sockets on Tram Stops	Sockets No Longer Required	On Street	Schedule 45	RL	C/R		02/04/2012	INF CORR 8223	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	04/04/2012	CEC	04/04/2012					
608	95		Off Street Generally	Delete 110v sockets on Tram Stops	Sockets No Longer Required	Off Street	Clause 80	RL	C/R		02/04/2012	INF CORR 8224						04/04/2012	CEC	04/04/2012					
609	91	574	Off Street - Section 1A	Traffic Management For Section 1A	Confirmation of Requirements and update	Off Street	Clause 80	RL	C/R	£130,000.00	05/04/2012	INF CORR 8238	02/05/2012	26/05/2012	N/A	£133,140.45	None	04/04/2012	CEC	04/04/2012	£133,140.45	12/06/2012	INF CORR 8379		TCO APPROVED CHANGE MEETING 11.6.12
610		564	Edinburgh Gateway	Siemens Long Lead Items	Order For OLE Poles and Turnout	Off Street	Clause 80	SM	DC									10/04/2012	CEC	10/04/2012					APPROVED BY CEC, BUT ON HOLD PENDING OUTCOME OF SURPLUS ON STREET POLE RE-USE
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	TBA	08/05/2012	CEC	08/05/2012					
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 8383	N/A - Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	24/04/2012	CEC	24/04/2012					
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	TBA	08/05/2012	CEC	08/05/2012					
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	Off Street	Clause 80	RL	C/R		26/04/2012	INF CORR 8281	18/05/2012					24/04/2012	CEC	24/04/2012					
614	104		On Street - Rothesay Place	Rothesay Place Traffic Management Amendment	Safety issues at Palmerston Place end of Rothesay 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	TBA	24/04/2012	CEC	24/04/2012					
615		568	Off Street - Section 2A	Design wall for blocking off, of the wall under the Haymarket viaduct as a result of the crew relief facility being omitted	Request by NW to block off void	Off Street	Clause 80	SM	DC	£5,000.00	26/04/2012	INF CORR 8276						24/04/2012	CEC	24/04/2012			08/05/2012	INF CORR 8300	
616		567	Off Street - Section 2A	Construct wall for blocking off, of the wall under the Haymarket viaduct as a result of the crew relief facility being omitted	Request by NW to block off void	Off Street	Clause 80	SM	DC	£10,000.00	26/04/2012	INF CORR 8277						24/04/2012	CEC	24/04/2012	£10,797.88	08/05/2012	INF CORR 8301		
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					24/04/2012	CEC	24/04/2012					
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					08/05/2012	CEC	08/05/2012					
618	112	576	Off Street - Depot	Gogar Depot 1800 mm Diameter Manhole - TQ736	Requirement by Scottish Water	Off Street	Clause 80	SM	UC	£6,176.31	02/05/2012	INF CORR 8292	25/05/2012	24/05/2012	N/A	£6,176.31	None	30/04/2012	CEC	30/04/2012	£6,176.31	19/06/2012	INF CORR 8396		
619	106	575	Off Street - Depot	Omit Track Welding Equipment	As track welding is specialist activity the maintainer will not have the capabilities in house	Off Street	Clause 80	SM	DC	-£14,420.00	01/05/2012	INF CORR 8290	25/05/2012	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		TCO APPROVED CHANGE MEETING 11.6.12
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					08/05/2012	CEC	08/05/2012			10/05/2012	INF CORR 8305	
621	111		Site Wide - Deferred HV Energisation	Amend the dates of the HV meter Installation at Ingliston, Bankhead, Jammers, 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	£12,507.00	16/05/2012	INF CORR 8319	Rec'd 9/05/2012	09/05/2012	N/A	£12,507.00		08/05/2012	CEC	08/05/2012					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		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					08/05/2012	CEC	08/05/2012					
623	120		Depot - Damage Repairs	Repair minor damage to Depot	Repairs	Off Street	Clause 80	CL	UC		16/05/2012	INF CORR 8322	08/06/2012					08/05/2012	CEC	14/05/2012					
624	116		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					08/05/2012	CEC	16/05/2012					

TNC No.	PMC No.	ICO No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	T&T Change Owner	Change Category DC/UC/CR/SR	Budget Cost for Risk and Potential Charges	Date TNC Issued	Letter Ref	Date Estimate Due	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved BY CEC/T&T	Date Approved or Rejected	Agreed Cost for Approved Contract Charges	Date TCO Issued	TCO Letter Ref	Comments	
625	113		On Street - Cathedral Lane	TNC withdrawn now covered under TNC 566 and TCO 535 Rev A	Full-time Engineering attendance on-site at Cathedral Lane	On Street	Clause 80	RL		£50,000.00	10/05/2012	INF CORR 8303						08/05/2012	GEC	08/05/2012					
626	141		Off Street - Edinburgh Gateway	Tramstop	Advanced procurement of Edinburgh Gateway Materials and Equipment.	Off Street	Clause 80	SM	CR		10/05/2012	INF CORR 8306					TBA	08/05/2012	CEC	08/05/2012					
626.1			Off Street - Edinburgh Gateway	Tramstop	Advanced procurement of Edinburgh Gateway Materials and Equipment. Rev A gives clarification on sourcing of materials.	Off Street	Clause 80	SM	CR		01/06/2012	INF CORR 8361	25/06/2012				TBA	01/06/2012	CEC	01/06/2012					
627	119		On Street - Pedestrian	Guardrail	Delete pedestrian guardrail in the area outside St John's Church - DESIGN	On Street	Clause 80	RL	DC		16/05/2012	INF CORR 8321						21/05/2012						INSTRUCTED TO ISSUE BY CEC	
628			MUDFA As Built		Bring As Built up to date as result of Utility diversions.	Site Wide	Clause 80	RL										18/06/2012						ON HOLD. TO BE CONFIRMED NOT PART OF SDS SETTLEMENT	
629	99	N/A	On Street - Section 1D	East End of Shandwick S1 (Lothian Road Junction)	Utilities affecting Track Excavation at S1	On Street	Schedule 45	RL	PAV				N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA						N/A	N/A	
630	100	N/A	On Street - Section 1D	Shandwick S2 (Atholl Place)	Utilities affecting Track Excavation at S2	On Street	Schedule 45	RL	PAV				N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA						N/A	N/A	
631	101	N/A	On Street - Section 1D	Shandwick S2 (Atholl Place)	Third parties affecting ability to progress excavating Track Box	On Street	Schedule 45	RL	PAV				N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA						N/A	N/A	
632	118	570	Off Street - Depot		Depot Building water Ingression resolution	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		URGENT ISSUE - INSTRUCTED TO ISSUE BY CEC
633	138	N/A	On Street - Princes St		Princes St Ponding at junction Frederick St/Castle 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	TBA	21/05/2012	CEC	21/05/2012			N/A	N/A	
634	128	N/A	On Street - Cathedral Lane		Excavation and duct installation York Place to Cathedral Lane now by Utilities Contractor	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	TBA	21/05/2012	CEC	21/05/2012			N/A	N/A	
635	142	N/A	On Street - Drainage		On Street Drainage Scope	On Street	Schedule 45	RL	UC		30/05/2012	INF CORR 8340	N/A	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	28/05/2012	CEC	28/05/2012			N/A		
636	124	571	Off Street - Lochside Place		Twin Crossing at Lochside Avenue	Off Street	Clause 80	SM	UC		22/05/2012	INF CORR 8332	15/06/2012				TBA	21/05/2012	CEC	21/05/2012			21/05/2012		See revisions to TNC and TCO
636.1	124	571.1	Off Street - Lochside Place		Twin Crossing at Lochside Avenue. Rev A includes signed TQ from Scottish Water.	Off Street	Clause 80	SM	UC		25/06/2012	INF CORR 8359	25/06/2012				TBA	01/06/2012	CEC	01/06/2012			01/06/2012		Clause 80.15 TCO issued.
637	137		On Street		SAS Pedestrian Crossing	On Street	Schedule 45	RL	CR - Client Request		24/05/2012							28/05/2012	CEC	28/05/2012			N/A	N/A	Urgent TNC instructed to issue by CEC
638	143		On Street		Delete pedestrian guardrail in the area outside St John's Church - CONSTRUCTION	On Street	Schedule 45	RL	DC		30/05/2012	INF CORR 8345	N/A	SCHEDULE 45	N/A			28/05/2012	CEC	28/05/2012			N/A	N/A	
639	144		On Street		York Place - Traffic Management Design	On Street	Schedule 45	RL	CR		30/05/2012	INF CORR 8346						01/06/2012	CEC	01/06/2012			N/A	N/A	Advised to issue by CEC
639.1	144		On Street		York Place - Traffic Management Design. Rev A to commence implementation.	On Street	Schedule 45	RL	CR		18/06/2012	INF CORR 8390	N/A	SCHEDULE 45			TBA	11/06/2012	CEC	11/06/2012			N/A	N/A	
640	140		Site Wide - Insurance of Unimog		Agreement on Method of Recovery for Unimog Insurance.	Site Wide	Clause 80	GE	UC	£1,000.00	30/05/2012	INF CORR 8342	06/06/2012		N/A		None	28/05/2012	CEC	28/05/2012					COST TRANSFER BETWEEN CEC AND BBS
641		N/A	On Street - Cathedral Lane		Omit - Refurbishment and Change of Use to Tram sub-station of Existing Toilets at Cathedral Lane. Add - Following Demolition by Others of Existing Toilets at Cathedral Lane. New Build of Tram sub-station.	On Street	Schedule 45	RL	DC		12/06/2012	INF CORR 8380	N/A	SCHEDULE 45	N/A		TBA	11/06/2012	CEC	11/06/2012			N/A	N/A	
642			On Street - York Place	Temporary Tram Stop	Omit - Approx 80 m of outbound Track and associated Kerbs, Footways and paved areas to provide space for Temporary Tram Stop. Add - Temporary Tram Stop and associated Kerbs, Footways and paved areas to create York Place Terminal Point.																				DRAFT UNDER DISCUSSION
643		572	Off Street - Edinburgh Gateway		Edinburgh Gateway Construction	Off Street	Clause 80	SL	DC		13/06/2012	INF CORR 8384	09/07/2012		N/A		TBA	18/06/2012	CEC	18/06/2012			13/06/2012		REV A FOR BOTH TNC AND TCO CURRENTLY UNDER DISCUSSION
644	98	581	On Street - On Street	OLE poles	Finals for On-Street poles																				DRAFT COMPLETE TO BE PRESENTED CHANGE PANEL 25.6.12
645		N/A	On Street - Princes St		Outstanding Works	On Street	Schedule 45	RL	CR		06/06/2012	INF CORR 8364	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	11/06/2012	CEC	11/06/2012			N/A	N/A	URGENT ISSUE TNC EMAIL ISSUED 1/6/12. UNDER COVER LETTER 6/06/2012.
646		N/A	On Street - Princes St		Cabinet Position For Street Lighting - Construction	On Street	Schedule 45	RL	DC		12/06/2012	INF CORR 8382	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	11/06/2012	CEC	11/06/2012					
647		577	On Street		Design work for VE on Carriageway Reconstruction & Kerb Realignment	On Street	Clause 80	RL	DC		12/06/2012	INF CORR 8378	06/07/2012			N/A	TBA	11/06/2012	CEC	11/06/2012			12/06/2012	INF CORR 8378	
648		579	On Street - Princes St		Cabinet Position For Street Lighting - Design	On Street	Clause 80	RL	DC		12/06/2012	INF CORR 8383	06/07/2012			N/A	TBA	11/06/2012	CEC	11/06/2012					AS URGENT ACTION FOLLOWED UP BY DESIGN TCO

TIC No.	PMC No.	UCD No.	Location	Description	Reason for Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	ESY Change Owner	Change Category DC/UC/CR/SR	Budget Cost for Risk and Potential Changes	Date TMC Issued	Letter Ref	Date Estimate Due	Date Estimate Received	Estimate Change Value - Design	Estimate Change Value - Construction	Time Implications	Date Issued to CEC	Approved by CEC/ST	Date Approver/ Rejected	Agreed Cost for Approved Contract Changes	Date TCO Issued	TCO Letter Ref	Comments	
649		578	On Street - Princess St Bldg	Design Works - HOLD MAY NOT BE REQUIRED																				DESIGN TMC MAY NOT BE REQUIRED. ALL CURRENTLY UNDER CONSTRUCTION TMC	
650			On Street - Princess St Bldg	Construction	Client instruction to meet 26th June deadline	On Street	Schedule 45	RL	CR		19/06/2012 INF CORP 8394	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	NSA	18/06/2012	CEC	18/06/2012			N/A		
651			Off Street - Tramstops	Tramstop Shelter Installation and Refurbishment	Reduce Risk of Damage	Off Street	Clause 80	SM	CR		22/06/2012 INF 8398	17/07/2012	N/A	N/A	N/A			18/06/2012	CEC	18/06/2012					
652		580	Off Street - Depot	Maintenance of The Depot Workshop Equipment	Maintenance not in original scope					£40,633.41														UNDER DRAFT	
653			On Street - York Place	Provide ICL Drawings in DWG CAD format														18/06/2012	CEC	18/06/2012				ON HOLD PENDING FINAL CHECK ON DRG LIST	
654			On Street - Princess St	De-scope coloured surfacing	Avoidance potential Maintenance Issue	On Street	Schedule 45	RL	DC									18/06/2012	CEC	18/06/2012				TMC 560 ALREADY COVERS TO BE REMOVED FROM REGISTER.	
655			Off Street - Murrayfield Tramstop	Additional CCTV & PA coverage - installation cost only	Additional to B15																			LINE ENTRY ON REGISTER AWAITING FURTHER INFO. EQUIPMENT AVAILABLE ELSEWHERE.	
656			On Street - Tramstops	Tramstop Shelter Installation and Refurbishment	Reduce Risk of Damage	On Street	Clause 80	RL	CR		22/06/2012 INF CORP 8399	17/07/2012	N/A	N/A										TMC ISSUED TO GO SAME TIME AS OFF STREET 651.	
657		582	On Street - Princess St	Scratch Water As Built Drawings	Client instruction to meet 26th June deadline	On Street	Clause 80	RL	CR		21.6.12 INF CORP 8400	17/07/2012			N/A								22/06/2012 INF CORP 8400		URGENT ACTION ISSUED AS BULLS TCO
658			On Street - Sharnfield Place	Standwick Place Wall																					LINE ENTRY ON REGISTER AWAITING FURTHER INFO.

DC - Design Change
UC - Unforeseen Circumstances
CR - Client Request
SR - Statutory Requirement
PRV - Pricing Assumption/Verification

Appendix 5 – Risk Register

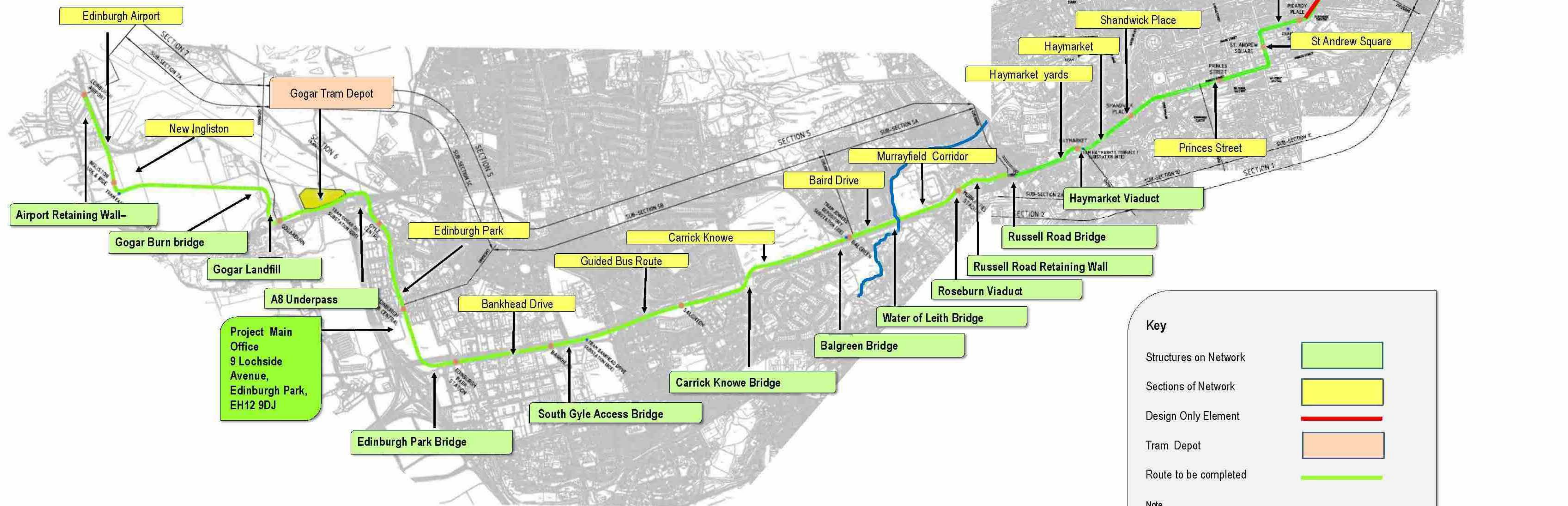
ID	Title	Cause	Effect / Impact	Risk Register - Pre Mitigation	Risk Register - Post Mitigation				Risk Register - Current	Risk Register - Post Mitigation											
					Severity	Likelihood	Risk Register - Current														
							Severity	Likelihood													
ED071	Due to legacy issues and unknown services	Discovery of additional track construction conflicts (LWS)	Partial diversion requirements may be required to allow works to proceed. Additional costs.	CEC	Stable/Low	Active	5	5	2	3	6	25	RED	Utility crews to conduct site and site checks. Briefing from the programme to ensure all handover information is provided to all relevant parties. BB to manage the works and ensure that the programme is updated and the programme is updated for O&M.	4	4	2	3	16	RED	
ED072	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	BBS	Stable/Low	Active	2	4	4	8	AMBER	1) HRBBS/CEC meeting to discuss NR control of access. 2) Detailed BBS review to manage PCL requirements and ensure compliance. 3) Detailed BBS review to manage PCL requirements and ensure compliance.	4	3	3	12	RED				
ED073	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	5	4	3	2	20	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	4	3	3	12	RED			
ED074	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	BBS/CEC	Stable/Low	Active	3	3	3	8	AMBER	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	4	1	3	12	RED				
ED075	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	BBS	Stable/Low	Active	2	4	2	1	8	AMBER	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	4	1	3	12	RED			
ED076	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	T&T	Stable/Low	Active	5	5	2	5	20	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	4	2	4	12	RED		
ED077	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	5	5	2	5	20	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	4	2	4	12	RED		
ED078	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	4	2	0	2	20	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	3	2	4	12	RED		
ED079	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	4	2	0	2	20	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	3	2	4	12	RED		
ED080	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC/T&T	Stable/Low	Active	4	3	2	3	20	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	3	2	4	12	RED		
ED081	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	3	2	1	1	15	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	2	1	1	2	9	AMBER	
ED082	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	4	4	4	4	16	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	3	3	3	9	AMBER		
ED083	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	BBS	Stable/Low	Active	3	3	3	3	9	AMBER	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	3	3	3	9	AMBER		
ED084	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	3	4	1	4	12	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	3	1	3	9	AMBER		
ED085	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	SP/CEC/T&T	Stable/Low	Active	2	2	2	2	6	AMBER	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	2	2	2	9	AMBER		
ED086	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	4	3	1	1	2	20	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	2	1	1	2	9	AMBER
ED087	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	5	5	1	1	4	25	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	3	2	1	1	4	8	AMBER
ED088	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	T&T	Stable/Low	Active	2	2	2	2	6	AMBER	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	2	2	2	2	6	AMBER		
ED089	Control of access to the site and equipment	Disruption of work by NR	Delay to construction work and programme	CEC	Stable/Low	Active	5	4	1	1	5	25	RED	1) Detailed BBS review to manage PCL requirements and ensure compliance. 2) Detailed BBS review to manage PCL requirements and ensure compliance.	2	2	1	1	4	8	AMBER

ID	Title	Description	Impact	Status	RISK ANALYSIS - Per Milestones				RISK ANALYSIS - Per Milestones									
					Priority	Category	Score	Color	Priority	Category	Score	Color						
					1-5	1-5	1-10	Green/Amber/Red	1-5	1-5	1-10	Green/Amber/Red						
ED001	Non quality work on site	Impact on timeline and cost	Low	Active	3	4	2	3	12	RED	2	3	2	3	4	8	AMBER	
ED002	Unidentified voids found during excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED003	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED004	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED005	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED006	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED007	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED008	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED009	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED010	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED011	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED012	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED013	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED014	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED015	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED016	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED017	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED018	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED019	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED020	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED021	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED022	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED023	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED024	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED025	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED026	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED027	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED028	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED029	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER
ED030	Over excavation	Impact on foundation and structural integrity	Medium	Active	3	3	5	2	15	RED	2	3	4	2	3	4	8	AMBER

Item ID	Cause	Risk Description	Effect/Impact	Risk Owner	Over-View	Status	RISK ANALYSIS - Per Mitigation				RISK ANALYSIS - Per Mitigation									
							Priority	Severity	Frequency	Impact	Priority	Severity	Frequency	Impact						
R001	Failure to coordinate and communicate with stakeholders (1) Failure to coordinate and communicate with stakeholders (2) Failure to coordinate and communicate with stakeholders (3) Failure to coordinate and communicate with stakeholders	Damage to Utility Accounts	Effect/Impact (1) Safety hazard to workers or public (open access) (2) Damage to utility infrastructure (e.g. cables, conduits) (3) Potential safety concerns (e.g. falls)	BBS/CEC TEST	Shifty Mistake	Active	2	2	4	3	6	AMBER	2	1	6	2	1	2	GREEN	
R002	Human error from untrained staff	Site condition or equipment on damage	Shifty to site from untrained staff on damage (1) Shifty to site from untrained staff on damage (2) Shifty to site from untrained staff on damage (3) Shifty to site from untrained staff on damage	BBS	Shifty Mistake	Active	2	3	3	3	6	AMBER	2	1	3	6	1	2	GREEN	
R003	Contractor misread project information	Other major project conflicts with team (excluding existing RF requests)	Delay and additional project management costs	CEC	Shifty Mistake	Active	3	2	2	2	6	AMBER	1	2	2	2	2	2	GREEN	
R004	Failure to coordinate and communicate with stakeholders (1) Failure to coordinate and communicate with stakeholders (2) Failure to coordinate and communicate with stakeholders (3) Failure to coordinate and communicate with stakeholders	Death, injury or damage to third parties (people or equipment)	Construction incidents causing death or injury, damage to works or equipment, or damage to third parties (people or equipment) (1) Investigation process, legal liabilities or insurance costs, reputation damage (2) Investigation process, legal liabilities or insurance costs, reputation damage (3) Investigation process, legal liabilities or insurance costs, reputation damage	BBS/CEC TEST	Shifty Mistake	Active	2	3	4	3	8	AMBER	1	2	1	3	3	2	GREEN	
R005	Unseasoned condition of utility	Failure of BBS, unsafe work practices, (e.g. crane work), unsafe work sites	Delay to utility works	CEC	Shifty Mistake	Active	2	2	3	4	8	AMBER	1	1	2	2	2	2	GREEN	
R006	Communication misdirection, insufficient use of standard communication protocols, results in OSCP or stability noise level is exceeded	Communication noise level exceeded	Shifty to site from untrained staff on damage (1) Shifty to site from untrained staff on damage (2) Shifty to site from untrained staff on damage (3) Shifty to site from untrained staff on damage	BBS	Shifty Mistake	Active	3	2	2	3	9	AMBER	1	1	2	1	3	2	GREEN	
R007	Damage from discharge accompanying testing (1) Damage from discharge accompanying testing (2) Damage from discharge accompanying testing	Hydrocarbon spill during filling/discharging	Hydrocarbon contamination of the ground, groundwater, nearby water bodies, clean-up costs	BBS/CEC TEST	Shifty Mistake	Active	2	1	3	3	6	AMBER	1	1	2	6	2	2	GREEN	
R008	Failure to coordinate and communicate with stakeholders (1) Failure to coordinate and communicate with stakeholders (2) Failure to coordinate and communicate with stakeholders (3) Failure to coordinate and communicate with stakeholders	Cost or injury of construction related damage to utility infrastructure	Shifty to site from untrained staff on damage (1) Shifty to site from untrained staff on damage (2) Shifty to site from untrained staff on damage (3) Shifty to site from untrained staff on damage	BBS	Shifty Mistake	Active	2	3	4	2	6	AMBER	1	1	2	3	6	2	GREEN	
R009	Extreme weather (wind) not well weather station	Extreme weather station	(1) Delay to work due to access restrictions or reduced output (e.g. damage to infrastructure) (2) Damage to infrastructure (e.g. cables, conduits)	BBS/CEC TEST	Shifty Mistake	Active	3	2	6	6	6	AMBER	1	1	2	6	0	0	2	GREEN
R010	Lack of control of construction information	Failure to implement rigorous control of information for construction	Enforce work, delay and cost	BBS	Shifty Mistake	Active	1	3	3	0	3	GREEN	1	1	0	1	1	1	GREEN	

Appendix 6 – Route Map

Edinburgh Tram Network – Route Map & Key Locations



Key

- Structures on Network
- Sections of Network
- Design Only Element
- Tram Depot
- Route to be completed
- Note.

Drawn by: Martyn Ayres
Date: 10/11/11
Revision: 0

CEC01890244_0104

Appendix 7 – 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