	A	В	С	D	l E	F	G	Н		l J	K
···;;	Value Engineering Opportunities For Tram Project Structures		-		_					-	
3	ACTION PLAN										
4	week beginning 17th September 2007										
5	SDS Ref	tie VE Ref		Proposal			Depot VE		Phase 1B	Assumption	Action Plan (L Murphy Lead)
6	5B	1	Edinburgh Park Viaduct	Cor-Ten, no walkways, side OLE, simple parapet Note – concerns over recent escalation of steel prices may impact this item.	This is a Planning issue (as distinct from a Policy or Maintenance issue/concern). Form and appearance will be the principle issues given that competent solutions for maintenance are adopted.	£0.25M		£1M		Highly dependent on steel costs and NEL agreement. Bidder cost statements at odds with budgeted position so saving in doubt. Prudent to reduce to £0.25M	SOS to be settled that the service of the part of the the part of
7	5C	2	A8 retaining wall – adjacent Depot	Simplify/abolish by Northwards depot move	No issue	£2M	£2M			Depot move north and rotate.	SDS Redesign Depot Order extrem Change estimate CM67
8	1D	3	Tower Place Bridge (docks)	No walkways - Walkers and cyclists to use existing adjacent bridge!!!!	As Victoria Dock Bridge below.	£2M		£2M		Funding to be provided from non- Tram sources as these are not budget items, i.e. this is cost avoidance rather than a saving on a budgeted item.	509 Federijn - Order Astord 85: Leeding Hegithations with FF- HOT agreed with FF to per
9	1D	4	Victoria Dock Bridge (docks)	No walkways - Walkers and cyclists not anticipated until	TP and VD Bridges are to be transferred from Forth Ports, and	£0.5M		£0.5M		Funding to be provided from non-	SGS Redesign: Order (select BC Leading Negatiations with
		5	Eight maintenance walkway structures	No walkways Total cost of structures – per average Bidders figs:	This solution is only supportable if the proposed design fits within the powers already granted, if continuity of existing footways is maintained, and if existing access is maintained.	£0.99M		£0.99M			1) Talk CEC through original proposal to demonstrate assumptions are correct 1st week in October. 2) in parallel assess impact on whole project cost prepare change to SDS design.
11			Crewe Rd gardens bridge £2M2							8	
13			Russell Rd bridge £1M2							8	
14			Russell Rd Retaining Walls £2M5								
15			Roseburn St Bridge £3M							8	
12 13 14 15 16 17 18			Murrayfield Stadium retaining wall £1M5 Murrayfield Training pitches retaining wall £0M7							8	
18			Water of Leith Bridge £1M5							8	
19			Baird Drive retaining wall £1M								
20		6	Depot Access bridge	Simplify as a result of Northwards depot move	No issue	te con tectore	22,296 registre			Depot move north and rotate.	Redfortion regales 2 challer structures in place of 1 tips officials one SSA selfunds for seas. Oils tempted as will help realise other Depart VE sources Charge estimate CAUSE.
		7	Lindsay Rd retaining wall	Simplify/abolish through FP	No issue	£1M	•••••	£1M		Agreement of Forth	Barry Cross Leading
21				agreement to area works						Ports	Neodobadet
22		8	Carrick Knowe bridge	Simple parapet	No issue	£0.085M		£0.085M		Ensure that appropriate safety standards are provided.	Discuss with Expense and R BicAttany w/b 1 October
23		9	A8 underpass	Reduce headroom from 5m to 4.4m	Not yet addressed by CEC as more detail required to confirm key points – not content with reduction in headroom unless tramway only.	£2M		£2M		Major cost element is	Discuss with I spence and R MikAfferty wib 1 October - MikAfferty wib 1 October - further consultation through design process to give comfort

	A	В	С	D	E	F	G	Н		J	К
24		10	Haymarket Viaduct	3 spans with retaining wall	This is a CEC Planning issue. The arrangement is very exposed to public view and the resulting design must be 'crisp'.	£0.25M		£0.25M		The design can be produced to satisfy CEC Planning	SDS to prepare Architectural representation to give I spence comfort will present w/b 1st Oct
25		11	Russell Rd. Bridge	Adopt "Roley" suggestion for piling changes.		£0.1M		£0.1M		Larger excavated footprint during construction will prove acceptable.	Discuss with I spence and R McAfferty w/b 1 October- further consultation through design process to give comfort revegules instruction
26		12	Crewe Rd Gardens Bridge		Not yet addressed by CEC since a Phase 1b structure.	E3N			NE3	No impact on CEC Planning, Policy or Maintenance issues	Lower priority: Discuss with I spence and R NicAfferty w/b 1 October - Purther consultation through detailed design process to give comfort
27		13	Colibridge Vladuct		Not yet addressed by CEC since a Phase 1b structure	£0.8M			£0.8M	Maintenance issues	Requires operational assessment and approval by TEL, Runtime assessment by SDS, Requires SDS instruction likely to be favoured by CEC planning and historic Scotland
28		14	Gogar Burn Bridge, South Gyle Access Road Bridge, Roseburn Terrace Bridge	5% of cost of structures to reduce their cost through VE – details yet to be specified		£0.12M		£0.12M			Turker assessment Prough detailed design process to give comfort