TO: Capital Committee

From: Brian McCartan, Executive Director of Finance & IT

Date: November 30, 2016

Re: 2017 Transit Improvement Plan (Capital) Budget Revisions

At your meeting scheduled for December 8, 2016, we will ask you to act on each of the revisions described in the attached.

The attached contains four sections of capital budget revisions requests.

- I. Allocations from Cost Estimates Revisions (C-1 through C-4) These requests include 4 projects which staff have recommended approval. Upon review these projects required additional allocations in advance of any future phase gate actions for; 2 projects have been identified as having the potential to exercise early right of way acquisitions, 1 project has identified early permitting costs normally paid during construction and 1 project has changed its project delivery method to Design-Build necessitating early preconstruction costs. In each case these changes have no impact on the total cost of the project rather it is just an earlier release of funding than traditionally is anticipated as part of the Phase Gate process.
- II. <u>Project Cash-Flow Changes Revisions (C-5 through C-7)</u> These request include 2 projects which having better information to forecast 2017 spending have adjusted (1 project increase, 1 project decrease) the project spending for 2017 and one project that has adjusted 2017 spending due to a separate Phase Gate action.
- III. Project Increases Revisions (C-8 through C-9) These requests include 2 projects which have proposed scope of work changes. One project is increased to accommodate a study and the other project was increased to accommodate a grant funded change of scope.
- IV. New Project Revisions (C-10 through C-15) These requests include proposed new projects which staff has recommended for approval. The need for these projects were established after the development of the 2017 proposed capital budget. These projects include three infrastructure repair or replacement projects, one project as a result of an interlocal agreement, one as a result of a grant award and another as a result of a federal mandate.

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# PROPOSED BUDGET REVISIONS CAPITAL PROJECTS – ALLOCATIONS FROM COST ESTIMATES

#### C-1 #4X115 Lynnwood Link Extension – Additional Allocation for Permit Costs

Total Amendment: \$500,000

Funding Source: ST2 Cost Estimate

Description: Increase Construction phase to account for project early permit costs.

Justification: This is project is currently in final design and permit costs are accounted for in construction phase which is not funded until baseline. However, there are recently identified early permitting costs which need to be funded.

Budget/Schedule Risk: Low/Low

		2017 Annual Budget									
Phase	Propo	osed Budget	Re	vision	Revised Proposed Budget						
Agency Administration	\$	7,225			\$	7,225					
Preliminary Engr / Environmental											
Documentation	· \$	•			\$	-					
Final Design	<b>S</b>	37,750			\$	37,750					
Third Party	\$	4,396			\$	4,396					
Row Acquisition and Permits	\$	57,025			\$	57,025					
Construction	\$	-	\$	100	\$	100					
Construction Management	\$	9,800			\$	9,800					
Vehicles											
Contingency						·					
Total	\$	116,196	\$	100	\$	116,296					

91833	Total Au	tho	rized Project A	llocati	on
	Ithorized		Revision	A	Revised uthorized ct Allocation
\$	88,305			\$	88,305
\$	42,000			s	42,000
\$	111,453			\$	111,453
\$	17,400			\$	17,400
\$	123,779			\$	123,779
\$	•	\$	500	\$	500
\$	104,925		• • • • • • • • • • • • • • • • • • • •	\$	104,925
s	487,861	s	500	2	488.361

#### C-2 #400008 Tacoma Link Expansion - Additional Allocation for Pre-Construction Costs

Total Amendment: \$1,070,000

Funding Source: ST2 Cost Estimate

Description: This amendment would provide funding for construction management pre-construction costs and City of Tacoma services for design review and permitting.

Justification: Accounts for costs that are incurred in advance of the baseline of the project.

Bidestrated at the management of the state of the	MOST WALKER	Actor Control	2017	Annual Budge	rt	
Phase	Propos	sed Budget		Revision	Pro	Revised posed Budget
Agency Administration	\$	1,606	\$	-	\$	1,606
Preliminary Engr / Environmental						
Documentation	\$	-	\$	-	\$	-
Final Design	\$	4,475	\$	1,300	\$	5,775
Third Party	\$	100	\$	650	\$	750
Row Acquisition and Permits	\$	2,565	\$	-	\$	2,565
Construction	\$	-	\$	-	\$	
Construction Management	\$	440	\$	160	\$	600
Vehicles	\$	800			\$	800
Contingency						
Total	\$	9,986	\$	2,110	\$	12,096

	Total Au	tho	rized Project A	lloca	tion
100000	Authorized Ject Allocation		Revision	\$1000am	Revised Authorized ect Allocation
\$	10,600			\$	10,600
\$ \$ \$	5,872 10,830 500 3,200	\$	810	\$ \$ \$	5,872 10,830 1,310 3,200
\$	- '			\$	-
\$	550	\$	260	\$	810
\$	2,000			\$	2,000
				Π	
\$	33,552	\$	1,070	\$	34,622

# C-3 # 300018 Sumner Station Access Improvements – Additional Allocation for Right of Way Acquisitions

Total Amendment: \$1,501,935 Funding Source: ST2 Cost Estimate

Description: Increase allocation to the Right of Way phase to acquire the necessary properties in a timely manner.

Justification: This allocation would normally occur during a phase gate action but the time of the phase gate and the necessity for the funds requires this amendment to ensure a timely acquisition of properties.

Budget/Schedule Risk: Low/Low

	201	7 Annual Budg	et	Total Authorized Project Allocation					
Phase	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation			
Agency Administration	144	- 2V2/37	144	762		762			
Preliminary Engineering	518	The state of the	518	2,685	· · · · · · · · · · · · · · · · · · ·	2,685			
Final Design	V MANAGE SECTION	All Tables		14.60mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2.00mm2		Bert William Tan			
Third Party Agreements	12462 549	127.54	43/45/		4 -3.01	化共享基本自100/80年间			
Right of Way	1 1/2 07	1,615	1,615	2,912	1,502	4,414			
Construction	39	A	39	113	market of	113			
Construction Services	Metale , 16 C	1000	- 4M - WEEL	CONTRACTOR S	Edition II	TON SHEET			
Vehicles	1/25 11 11 12	11 24 2	11 800	THE TAX THE	= E %				
Contingency	n 12.	19-20 W	34 Ten ()	n= 11 3+	100	40,000			
Total	701	1,615	2,316	6,472	1,502	7,974			

#### C-4 #300004 Sounder Maintenance Base – Early ROW Activity

Description: Allocation from the project cost estimate to accommodate early ROW activities in advance of Phase Gate, Gate 4 (Enter Final Design) when right of way funds are traditionally allocated. Additionally, adjust the 2017 cash-flow to anticipate potential ROW action.

Justification: To allow the flexibility to acquire property that may become available prior to any phase gate actions.

	) plants	2017 Annual Budget							Total Au	thorized Project A	roject Allocation		
Phase	Propo	sed Budget	No. of the last	Revision	760000	Revised		100000	uthorized ct Aliocation	Revision	Au	Revised thorized ct Allocation	
Agency Administration	\$	186	\$	Park -	\$	186		\$	860	THE PRINCIPLE	\$	860	
Preliminary Engr / Environmental Documentation	\$	3,066	\$	- 1 ·	\$	3,066		\$	5,116	Sales Sales &	\$ 60	5,116	
Final Design		1905-110		Net Stop						- 10" - 4	\$	-	
Third Party	100 E-31	A		A.K Wal		0.00 Person		4	200	T = 5, 100 to	\$	-	
Row Acquisition and Permits	\$	115	\$	2,448	\$	2,563		\$	865	\$ 2,127	\$	2,992	
Construction	78 4a 1	0.82		041015XV	85	J Sept.		10			30.1	330 W	
Construction Management		STATE OF	- 0	2 K	10	A PARTY OF THE PAR	100	RIM	0.3	al of Weathers	45.0	EA - 7	
Vehicles	THE STREET	A outer		Philips !	-	23,3		11/	1000	Tre-Technic	48+5	A SHALLING TO	
Contingency		4.0	~	T-M	- 1						R/) 14	A XX	
Total	\$	3,367	\$	2,448	\$	5,815		\$	6,841	\$ 2,127	\$	8,968	

### CAPITAL PROJECTS - PROJECT CASH-FLOW CHANGES

#### C- 5 #600016 Fare Administration - Increase 2017 Spending

Total Amendment: \$1,872,931

Funding Source: N/A

Description: Increase to 2017 spending in support of OCRA. A shift in phase allocation to budget administrative costs. No change to total budget allocation.

Justification: Proposed TIP was developed before a mature scope of work and schedule could be completed. This change reflects the completed work plan.

Budget/Schedule Risk: Low/Low

_	2017 Annual Budget							
Phase	Propos	ed Budget	Revision		C100000	Revised osed Budget		
Agency Administration	\$	-	\$	115	\$	115		
Pretiminary Engr / Environmental	\$	200	\$	35	\$	235		
Research & Technology	\$	400	\$	1,722	\$	2,122		
Final Design								
Third Party								
Row Acquisition and Permits								
Construction								
Construction Services				·				
Vehicles				·		•		
Contingency				·		·		
Total	\$	600	\$	1,873	\$	2,473		

ASSESSED OF	Total Au	tho	rized Project A	llocati	on
	horized t Aliocation		Revision	A	Revised uthorized ct Allocation
		\$	115	\$	115
\$	1,646			\$	1,646
\$	14,457	\$	(115)	\$	14,342
		_			
\$	16,103	\$		\$	16,103

#### C-6 #804100 TOD Property Surplus Disposition – Reduce Annual Spending

2017 Annual Budget

Total Amendment: (\$1,033,195)

Funding Source: N/A

Description: Reduce annual project budget. No change in total project allocation.

Justification: Reduction is in line with anticipated work plan and cash flow.

		APPLICATION OF THE PERSON OF T	110	Miliual Duuge	7000	CONTRACTOR OF THE PARTY OF THE
Phase	Propose	1 Budget		Revision	THE REAL PROPERTY.	Revised osed Budget
Agency Administration	\$	530	-		\$	530
Preliminary Engr / Environmental Documentation						
Final Design						
Third Party				·		
Row Acquisition and Permits	\$	1,715	\$	(820)	\$	895
Construction	\$	513	\$	(213)	\$	300
Construction Services						
Vehicles						
Contingency						
Total	\$	2,758	\$	(1,033)	\$	1,725

	Total Au	thorized Project	Allocatio	ก
FFED TO	thorized	Revision	Au	tevised thorized at Allocation
\$	2,326		\$	2,326
\$	8,444 845		\$	8,444 845
\$	11,615	\$ -	\$	11,615

#### C-7 #300017 Puyallup Station Access Improvements - Establish 2017 Annual Budget

Description: 2017 Annual increase to allow for establishment of the final design phase. This action is in conjunction with a November 2016 project budget allocation from the cost estimate and Phase Gate 4 increasing the project budget by \$2,594,563.

Justification: Establish 2017 annual spending consistent with budgets changes approved under a separate 2016 Board action.

The little of the second state of	ATT DES	20	Annual Bud	.00	Total Authorized Project Allocation							
Phase Agency Administration	E INSURSON	Proposed Budget		Revision		Revised Proposed Budget		Authorized Project Allocation	Revision			Revised Authorized Project Allocation
	\$	140	\$	384	\$	524	- \$	1,223	34.76	17.25/19/24/24	\$	1,223
Preliminary Engineering	\$	518	\$	302	\$	820	\$	2,996	1, 13	SETTE A	\$	2.996
Final Design	APPENZ	2. 图 5 电影 1 3	\$	60 - Late 10	18	AWES VET	TE S		均常	Arthurst Str. State	100	II VENNEYS
Third Party Agreements	THE SEC	Name of the	\$	50	\$	50	8	105	143245	10 m	\$	105
Right of Way	\$	3,720	\$	837	\$	4,557	S	6.555	. G.		S	6,555
Construction	GET.	00°100-11	\$		-219-	a 1 5 55		- 127 221		- 1777	18	The Red
Construction Services			\$	63	\$	63	S	130	2	111 650	\$	130
Vehicles			\$	M	55	198 12		Kara Santa and	OBS 1	and Branch	100	200
Contingency	total .		\$	T TOTAL	199	-32	4		15		22	
Total	\$	4,379	\$	1,635	\$	6,014		11,009	\$	3701	\$	11,009

#### CAPITAL PROJECTS - PROJECT INCREASES

#### C-8 #700793 Signage Improvements - Study Sign Identification and Wayfinding Issues

Total Amendment: \$200,000 Funding Source: New Appropriation

Description: Study wayfinding issues in relationship to location, size and ease of identification to assist in the ease of access to Link services. Identify solutions.

Justification: Study is in response to recent customer complaints of wayfinding signs not readily identifiable for instruction to and location of link services.

in house being a second	- CONTRACTOR	2017 Ann	ual Budge	t	200		Total Authorized Project Allocation						
Phase	Proposed Budg	at Amee	ndment		ended ed Budget	No. of Concession, Name of Street, or other Persons, Name of Street, or ot	thorized t Allocation	Amendment	Auti	ended norized Allocation			
Agency Administration	\$ 2	2		\$	22	\$	76	SALAHSEN DE MER	\$	76			
Pretiminary Engr / Environmental Documentation			4	-13					75	TANK			
Final Design	200	1003		10m 15	ST #	\$	94		\$	94			
Third Party	e minimum are	\$	200	\$	200			\$ 200	S	200			
Row Acquisition and Permits		2 (1)		= 171	2				7//07=	- Tab.			
Construction	\$ 71:	2 \$	200	\$	712	\$	728	- Alternation	\$	728			
Construction Services		1120		17-3-		\$	33	W -E - 53-	\$	33			
Vehicles -	17		3.3	-SIII"	F1 500 E			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9				
Contingency	× = 13 = -	F: 14		1 1	3.	-21	11 11						
Total	\$ 73	5 \$	200	\$	935	S	931	\$ 200	\$	1,131			

#### C-9 #600033 Link CCTV System Upgrade – Increase for grant funding video monitoring system

Total Amendment: \$240,000

Funding Source: Grant funded

Description: Procure and install a video monitoring system at Union Station aiding Security Operations Center in monitoring events in the field.

Justification: This procurement is fully funded by a recently awarded Homeland Security Grant.

Budget/Schedule Risk: Low/Low

	12.04	2017 Annual Budget							
Phase	Propos	ed Budget	Amen	dment	(F-1012) (r-104)	nended sed Budget			
Agency Administration	\$	20			\$	20			
Preliminary Engr / Environmental									
Documentation			68						
Final Design	\$	50			\$	50			
Third Party					1.				
Row Acquisition and Permits									
Construction	\$	2,084	\$	240	\$	2,324			
Construction Services									
Vehicles									
System Testing & Startup									
Contingency									
Total	\$	2,154	\$	240	\$	2,394			

Total Authorized Project Allocation								
Authorized Project Allocation		Amendment	Au	Amended Authorized Project Allocation				
\$	20		\$	20				
\$	50		\$	50				
\$	2,784	\$ 240	\$	3,024				
\$	2,854	\$ 240	\$	3,094				

#### **CAPITAL PROJECTS - NEW PROJECTS**

#### C-10 #TBD Access Control System Upgrade

Total Amendment: \$1,114,000

Funding Source: New Appropriation

Description: Upgrade of the existing access control system which manages the secure access to agency facilities. The existing system utilizes General Electric (GE) Secure Perfect system was installed in 2008 and is no longer supported by GE. A new system will allow for a single access control platform for all Sound Transit Facilities.

Justification: The current system has been unsupported by GE since 2013. King County had maintained the system with a reliable source of spare parts. However, very recently, spare parts have been more difficult to source necessitating the need for a system replacement and upgrade of features and functionality.

Budget/Schedule Risk: Medium/Low

BERTHARDSON AND TAXON AND BEAUTY ON THE PROSESSION OF THE	2017 Annual Budget								
Phase	Proposed Budget	Revision	Revised Proposed Budget						
Agency Administration	= 10								
Preliminary Engr / Environmental Documentation									
Final Design									
Third Party									
Row Acquisition and Permits									
Construction		\$ 1,114	\$ 1,114						
Construction Management									
Vehicles									
Contingency									
Total	\$ -	\$ 1,114	\$ 1,114						

Total Aut	hor	zed Project A	liocatio	n	
Authorized Project Allocation			Revised Authorized Project Alloca		
	\$	1,114	\$	1,114	
\$ -	\$	1,114	\$	1,114	

#### C-11 # TBD LRV Between Car Barriers

Total Amendment: \$560,000

**Funding Source: New Appropriation** 

Description: Procure and install barriers 21 Link Stations to prevent access to space between LRV vehicles.

Justification: To comply with FTA Regulation 49 CFR 38.85 requiring barriers between LRV vehicles when stopped at stations to ensure that visually impaired riders do not mistaken the space between vehicles as an open door. This project was originally anticipated to be a small works project in 2016, once the cost estimate was established for the scope and staff oversight, the project did not meet small works eligibility moving it to a full capital budget consideration.

Budget/Schedule Risk: Low/Low

		2017 Annual Budget								
Phase	Proposed Budget	F	Revision	1000	Revised Ised Budget					
Agency Administration	AT A STATE OF	\$	152	\$	152					
Preliminary Engr / Environmental		1.56	6.77	11 211						
Documentation			( ) n							
Final Design	4.	- 11	Van 12							
Third Party			1 THE R.	3.5	1 36					
Row Acquisition and Permits	130 550		声 第二章	1.1	33.1					
Construction	100	\$	368	\$	368					
Construction Management					100					
Vehicles				T						
Contingency	= 15	91			855					
Total	\$	\$	520	\$	520					

Total Authorized Project Allocation									
Authorized Project Allocation	Revision	Revised Authorized Project Allocation							
Set If the	\$ 152	\$ 152							
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	1 1 m	i- o mai							
19 11		7 2							
	\$ 368	\$ 368							
S 104	8 u 836 - 1 - Si								
\$ -	\$ 520	\$ 520							

#### C-12 # TBD King Street Station Platform Improvements

Total Amendment: \$300,000

**Funding Source: New Appropriation** 

Description: Participate in a local partnership to design and construction passenger access improvements to King Street Station improving access to Century Link Field.

Justification: This partnership was not formalized, nor was the cost established until after the submission deadlines for the 2017 TIP. The partnership is between ST, WSDOT and Amtrak to improve special event train access to King Street Station. Special events requiring 7 car platform support limit train access to other platforms. This will allow improvements to track 9 for game days and special events reducing platform crowding and improving overall safety to passengers. This will be partially funded by a grant from the Federal Railway Administration.

		2017	Annual Bud	get	ALIGNE VOI	Total Authorized Project Allocation				cation
Phase Agency Administration	Proposed Budget	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IN COLUMN		Pr	Revised oposed Budget	Authorized Project Allocation	ed t		Revised Authorized Project Allocation	
	ation	\$	25	\$	25	NAMES OF THE PARTY	\$	25	\$	25
Preliminary Engineering		\$	25	\$	25		\$	25	\$	25
Final Design		\$	50	\$	50	100	\$	50	\$	50
Third Party Agreements	10 10 10 100	7/	0=		. 1 2			1 1 1 4 1		10 == : %
Right of Way*	1	\$	75	\$	75		\$	75	\$	75
Construction	9 1	\$	125	\$	125	TO SEE	- \$	125	\$	125
Construction Services			XX	Т				42.39		
Vehicles	BULKING OF	$\top$								
Contingency	5 be 00 = 1					- 54		the section		
Total	1	\$	300	15	300	D	S	300	\$	300

#### C-13 #TBD Convention Place Development System Retrofit

Total Amendment: \$2,549,150

Funding Source: New Appropriation

Description: Retrofit existing power distribution control and monitoring system at Pine Street. Install new 26kV feeder breakers at Pine Street and feeder cables to new convention place traction power substation and install new 480kV back-up power cables from Pine Street to Westlake and University Stations.

Justification: Current power distribution infrastructure in Convention Place/Pine Street area is scheduled for redevelopment necessitating relocation and decommissioning of existing equipment located on the Convention Place site. The scope of work and cost estimate was only recently established.

Budget/Schedule Risk: Low/Low

Phase	21	017 Annual Bud	get	Total Authorized Project Allocation			
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation Revision		Revised Authorized Project Allocation	
Agency Administration		233			233	233	
Preliminary Engineering							
Final Design		72	72		72	72	
Third Party Agreements							
Right of Way							
Construction		2,025	2,025		2,025	2,025	
Construction Services		220			220	220	
Vehicles							
Contingency							
Total		2,549	2,549		2,549	2,549	

#### C-14 # TBD Link Operating Segment System Enhancements and Upgrades

Total Amendment: \$1,400,000

Funding Source: New Appropriation

Description: The purpose of this project is to deliver enhancements and upgrades to systems on the existing link operating segment. Systems covered include but are not limited to AC power distribution, traction power, overhead catenary system, signals and communications systems upgrades, and enhancements to existing engineering infrastructure of link operating segment.

Justification: To assure continued safe and reliable operation of existing link systems via enhancements and upgrades identified based on system operational performance.

	2	017 Annual Budg	et	Total Authorized Project Allocation			
Phase	Proposed Budget	Revision	Revised Proposed Budget	Proposed Budget	EXPLORATION AND PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE		
Agency Administration		185	The second secon		185	185	
Preliminary Engineering		Carrette Comment	The state of the s				
Final Design		185	185		185	185	
Third Party Agreements							
Right of Way							
Construction		950	950		950	950	
Construction Services		80	80		80	80	
Vehicles							
Contingency		500 14 -					
Total		1,400	1,400		1,400	1,400	

#### C-15 # TBD On-Demand Bike Locker Pilot

Total Amendment: \$60,000

Funding Source: New Appropriation/Grant

Description: Installation of 16 bike lockers with on-demand technology at Mercer Island Transit Center to test and evaluate system for potential use at other locations. This project recently received partial funding through a local grant making this project affordable.

Justification: Provides a low cost review and experience of new technologies to better achieve full utilization bike lockers for active bike riders at locations where a high demand for lockers exist.

Budget/Schedule Risk: Low/Low

<u></u>		017 Annual Budge	et	Total Au	Total Authorized Project Allocation					
Phase	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation				
Agency Administration	表式が対対し	5 10 mg	8. P.H. W. & S. C. P.	THE RESERVED OF	ALC ALMIT	2007				
Preliminary Engr / Environmental Documentation				5						
Final Design	THE PART OF THE	SHOWER CONTRACTOR	3- 16-75		ALTHUR E	100 GA 6				
Third Party	- m 15 //		-7.	V/Sodia	111111111111111111111111111111111111111	100				
Row Acquisition and Permits		. 20 .0=		E 20 75	CA	\$ 11 11 28 5 min				
Construction	- 0	\$ 60	\$ 60		\$ 60	\$ 6				
Construction Management			n 5 m	- N N N	- ethi					
Vehicles	32 M # //	= 1	1 4 = 16	=39975		15/6 (H)				
Contingency	- 9 "	870	TIT (%)			29111122				
Total	\$ -	\$ 60	\$ 60	\$ -	\$ 60	\$ 6				

60