TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: September 16, 2011

SUBJECT:

AMENDED 2012-2016 CAPITAL PROGRAM AND 10 YEAR FORECAST – SHORTFALL REDUCTION PLANS

ACTION ITEM

RECOMMENDATION

It is recommended that the Commission:

- (1) Approve an <u>amended</u> 2012-2016 Capital Program and 10 Year Forecast as a result of Shortfall Reduction Plan changes in the amount of \$725.0 million as outlined in this report and as summarized in Appendix A, resulting in the following revised budget requirements:
 - (a) a 2012 Capital Budget in the amount of \$1,079.8 million, noting that identified capital funding sources are more than sufficient to fund the 2012 capital budget request;
 - (b) the 2012-2016 Capital Program in the amount of \$4.334 billion, noting that the capital expenditures needed to maintain the existing transit system in a state-of-good-repair over this 5 year period exceed currently identified capital funding sources by \$1.072 billion;
 - (c) the 2012-2021 TTC Capital Forecast in the amount of \$6.274 billion, noting that the capital expenditures needed to maintain the existing transit system in a stateof-good-repair over this 10 year period still exceed currently identified capital funding sources by about \$806.7 million;
- (2) Endorse TTC staff working with the City to pursue Provincial and Federal Government funding to address the remaining funding shortfalls;
- (3) Forward this report to the City of Toronto Budget Committee as the TTC's Shortfall Reduction Plan for base capital funding needs;
- (4) Forward this report to the Standing Committee on Finance of the House of Commons for consideration during the Federal Pre-Budget Consultations;
- (5) Forward this report to the Federal Minister of Transport, Infrastructure and Communities, for consideration of TTC's base capital funding needs;
- (6) Forward this report to the Ontario Minister of Transportation, the Ontario Minister of Public Infrastructure Renewal, and to the Ontario Minister of Finance, for consideration of TTC's base capital funding needs; and

(7) Forward this report to Metrolinx, for consideration of TTC's base capital funding needs.

FUNDING

Funding from known sources for capital budget needs is expected to amount to approximately \$5.5 billion over the years 2012-2021. With the identification of gross capital needs of \$7.0 billion in the preliminary budget approved by the Commission on June 8, 2011, a \$1.5 billion funding shortfall existed which needed to be reduced to meet City affordability guidelines. With approval of the recommended \$725 million in project expenditure reductions outlined in this report, a balance of \$807 million (including funding projection impacts) will need to be pursued with the Provincial and Federal governments in order to fund the base capital budget.

BUDGET CONTEXT

Based on the preliminary 2012-2016 Capital Program and 10 Year Forecast that was approved by the Commission on June 8, 2011, a \$1.5 billion funding shortfall existed for base capital needs. This represented a 10-year capital program of \$7.0 billion which was constructed to allow the TTC to provide the important service required for the City of Toronto by replacing and/or maintaining its assets in a state of good repair. Identified funding from all known sources amounted to \$5.5 billion, leaving a projected funding shortfall of \$1.5 billion to be addressed.

People throughout Toronto are riding transit in increasing numbers. Every day, the TTC sets new all-time high ridership records. This is extremely good for Toronto's economy, development potential, environment and for the mobility of all its residents. The 10-year Capital Program of approximately \$7 billion was constructed to allow for replacing and/or maintaining assets in a state of good repair and to satisfy Toronto's continuing demand for more transit. For the current capital budget cycle, the City of Toronto has established debt guidelines for funding of capital expenditures. Due to the magnitude of the existing funding shortfall, TTC staff have been asked to explore alternatives to reduce the capital budget. These decisions must proceed with caution, noting that significant reductions in capital budgets will impair the ability to deliver service and to make needed improvements. Further, these reductions will also lead to increased crowding and future customer demand possibly not being met.

The preliminary 2012-2021 TTC Capital Budget that was presented to the Commission on June 8th, 2011 was based on the documented needs of the existing system. The Commission has a well-documented inventory of asset conditions. Routine inspections, manufacturer's recommended maintenance, regulatory requirements, engineering standards, useful life and condition assessments, and other measures are used to establish the capital plan required to maintain these critical assets in a state-of-good-repair. That plan formed the basis of the 2012-2021 TTC Capital Budget, providing a base which has been consistent for years. This is the 10-year capital budget that should be funded and fully executed.

With a funding shortfall in the order of \$1.5 billion over a decade, reductions must be made. If funding were available, TTC staff would recommend undertaking the entire list of unfunded projects as presented. However, while all of the projects should proceed, the list represents a series of amendments and deferrals that can be made and still maintain the integrity of the system. If trade-offs have to be made, these are the ones that are recommended. If additional funding is secured from upper levels of government, the projects would constitute the first priority for add backs.

Bearing this in mind, staff undertook a review of capital needs. As a result, reductions have been identified on certain projects in an attempt to address the funding shortfall. A list has been developed to reflect project reductions which are defensible and can be recommended to address the direction of City Officials on the capital budget. As a result of the project amendments recommended in this report, a reduction of \$725 million will be achieved in the 10-year budget. Table 1 below provides a listing of the recommended Shortfall Reduction Plan changes, and the detailed cashflow impact of these changes is outlined in Appendix A.

TABLE 1		
SHORTFALL REDUCTION PLAN:	2012-2016	2012-2021
Future Bus Purchases - delete 134 buses	(50)	(50)
Future Subway Growth Cars - delete 10 trains	(156)	(161)
LRV Order - delete 15 cars from 204	(16)	(71)
TR/T1 Rail Yard Accommodation - deferral of work	(24)	(182)
Temporary Bus Storage Facility - reduced capacity needs	(23)	(23)
Bloor-Danforth ATC Resignalling - deferral of work	-	(150)
Fire Ventilation Upgrades - deferral of work	(6)	(39)
Collector Booth Renewal - delete modifications	(3)	(8)
On-Grade Paving - deferral of work	-	(50)
Bus Rebuild Program - slippage	1	1
Garage Subsurface Remediation Program - cost increase	6	6
Revenue Operations Facility - cost Increase	2	2
Total Project Deletions/Deferrals	(269)	(725)

A brief description of each of the project deletions/deferrals also follows to explain the project scope changes and the impacts of this budget change.

<u>Bus Procurement - (\$49.8 million)</u>: Bus procurements will be reduced by 134 forty foot buses (from 340 40 foot equivalents) as a result of the removal of 108 peak ridership growth buses and 26 contingency buses. It should be noted that the majority of these reductions, ie 108 of 134 are contingent on the policy RGS loading standard being approved to return to the pre RGS level. The reduction in contingency buses will impact

service.

TTC's ability to respond to unexpected events as well as respond to higher than expected ridership growth. Since buses for 2012 have already been contracted and a significant penalty will be incurred to cancel the contract, this change will not impact cash flows until 2013. Further, cash flows for the years 2014 to 2016 have been adjusted to reflect the anticipated procurement of articulated buses (60 foot buses) at a ratio of 1.35 to 1. Utilization of articulated buses will reduce operating costs and provide a better customer

<u>Temporary Bus Storage Facility - (\$23.1 million)</u>: With the removal of 134 buses from the fleet, additional storage will no longer be required as current garage capacity will only be slightly exceeded and crowding will cease with the opening of the new Eglinton – Scarborough Crosstown LRT.

<u>10 Additional Toronto Rocket Subway Trains – (\$161.0 million)</u>: Current ridership projections indicate the requirement for these trains early in the second five year envelope. An option does not exist in the current contract to buy these trains and a contract would need to be negotiated. Staff believe a price in the same range as currently being paid would be achievable, but only with a continuous production run. This would result in fleet being delivered before it was needed leading to marginal operational cost increases as well as further yard expansion. Further, TTC's ability to run these trains is dependent on having ATC fully implemented. While staff is confident in the ATC plan, this is a large and complex system being built in an existing subway with high potential for schedule changes. Given the foregoing, staff has concluded it would be prudent to defer the decision to buy additional trains until a later date.

LRV Order Reduction – (\$70.8 million): The current LRV order for 204 cars will be reduced by 15 cars resulting in a revised order quantity of 189. The revised order of 189 cars is sufficient to meet ridership demand projections for the current 10 year envelope. The original order quantity of 204 cars was also based on 10 year envelope requirements but additional cars beyond the 189 required to meet loading standards were added to ensure headways were not too large. Given the current fiscal situation, the need for headway constraint was reviewed, and although not ideal, staff is satisfied there will be minimal customer impact. As cars continue to be delivered into 2018 under the current contract delivery schedule, car requirements will be reviewed again at that time to ascertain future needs and any potential order amendments that may be required (including an option that permits the purchase of more cars later). While the expected reduction in expenditures would amount to \$82 million, only \$70.8 million falls within the 10 years (\$11.2 million reduction in 2011). Based on these expenditure changes the current funding projections include a 1/3 Provincial share for this project and this funding would be reduced (\$23.6 million) within the 10 years to 2021. It should be noted that in an attempt to further reduce the funding shortfall of \$1.072 billion in the first 5 years of the program, staff have asked Bombardier to quantify the financial impacts of deferring payments from the first 5 years to the second five years of this project. In conjunction with the LRV project, commitments are needed to proceed with the construction of the new Ashbridges Bay Maintenance and Storage Facility to avoid schedule delay costs and address capacity for delivery of the new LRV cars commencing in 2013.

<u>TR/T1 Rail Yard Accommodation – (\$182.0 million)</u>: The rail amalgamation study completed in 2010 identified modifications required to various subway yard complexes and facilities to accommodate proper delivery, storage and maintenance of up to 80 TR trains on the YUS line and the series of cascading impacts from the transfer of all T1 cars to the BD line. In addition to the impacts of the deletion of the additional 10 trains, other scope elements of the yard were reviewed with the result that deferrals were recommended in the completion of storage tracks, overhaul shop, runaround loop, new vehicle access roadway and Greenwood Yard modifications. Timing and operational impacts of scope adjustments are to be finalized.

<u>BD Automatic Train Control – (\$150.0 million)</u>: Signal equipment on the BD line has reached the end of its useful life and needs to be replaced. In addition, the line is nearing the capacity that a conventional signal system will permit. Thus the initial capital plan put forward by staff was to replace the current conventional signal system with an ATC signal system following the completion of the ATC implementation on the YUS line. However, since the conception of this plan, a major change to expansion plans was announced, namely the combining of the new Eglinton LRT line with the rehabilitated/modified SRT line into one continuous line, resulting in lower ridership projections on the BD line. Thus the need for ATC on the BD line has been deferred well into the future.

<u>Fire Ventilation Upgrade – (\$39.2 million)</u>: Future work has been assessed and the schedule has been adjusted to further defer some components outside of the 10 year envelope.

<u>Collector Booth Renewal/Controls - (\$8.0 million):</u> The renewal element of the project will be cancelled for stations that were scheduled to be undertaken starting in 2014, noting that current committed work will be completed. This work will include developed concepts that can be re-implemented at a future date to mitigate impacts on Collectors if PRESTO installation is delayed. Booth controls equipment will be cancelled from enhancing 121 booths, due to the impending implementation of PRESTO.

<u>On-Grade Paving – (\$50.0 million):</u> Allowances for future work, which is prioritized based on ongoing condition assessments, have been removed from the second 5-year envelope (2017-2021) which will defer the completion of rehabilitation work of all paved assets from 2029 to 2033. This will result in increased operating budget maintenance costs due to pavement deficiencies and safety concerns.

<u>Bus Rebuild Program – (+\$1.3 million):</u> As a result of a budget reduction applied in the approval of the 2011capital budget, project rescheduling was required to live within existing approvals. This has resulted in \$1.3 million of overhaul work being deferred from 2011.

<u>Garage Subsurface Remediation – (+\$5.6 million):</u> As a result of ongoing investigation, further work will be required, including installing additional ground water monitoring wells, expanding the residential area for monitoring and conducting more frequent indoor air quality tests. Discussion is ongoing with the Ministry of Environment to finalize long term mitigation measures and future capital budgets will be adjusted accordingly.

<u>Revenue Operations Facility – (+\$2.0 million):</u> The budget change reflects the latest cost estimate based on the final design revision. Discussion is ongoing with the owner to identify further savings opportunities without impacting the functionality, safety and security for Revenue Operations.

The financial impact of the Shortfall Reduction Plan is to remove \$725 million from the 2012-2021 Capital Program.

This leaves a remaining 10-year shortfall balance of \$807 million which needs to be addressed through the pursuit of funding from the Provincial and Federal governments. The Amended 2012-2021 Capital Program and revised shortfall is outlined in Appendix B. While there is sufficient funding available to fully cover the 2012 capital expenditures, there is insufficient funding for the future starting in 2013. In order to fulfill all of the remaining capital needs and plans, this additional funding will have to be secured in some form from Federal and Provincial governments.

To address the balance of the base program funding shortfall noted above, staff needs to continue working with City, Provincial and Federal Officials, including the consideration of funding of previously proposed funding packages. Further discussions are expected to continue with the expectation that these efforts will result in the identification of ongoing, predictable and long term funding for the TTC's base capital program. A significant portion of this future funding shortfall can be attributed to the maturity or completion of specific program based contribution funding programs such as Canada Strategic Infrastructure Fund (CSIF), Infrastructure Stimulus Funding (ISF), Transit-Secure (TS), Ontario Bus Replacement Program (OBRP), Quickwins, which provided significant contributions in past years but which have not yet been extended or identified as having a successor program for the TTC's ongoing capital needs. Discussions with both the Federal and Provincial governments will need to consider all options to secure additional financial support for the base capital program, including asset ownership which would allow payments to be made over a long period of time for items such as subway cars, LRV's, a maintenance storage facility, etc.

September 12, 2011 42-12

Attachment: Appendix A - 2012-2021 Amended Projects Summary Appendix B - 2012-2021 Capital Program & Sources of Funding Appendix C – June 8, 2012 Commission Report #12 2012-2016 Capital Program and 10 Year Forecast SHORTFALL REDUCTION PLAN - SEPTEMBER 16, 2011

APPENDIX A

(CHANGE IN 2012-2016 TTC CAPITAL BUDGET FROM COMMISSION

APPROVED JUNE 8, 2011)

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Category	Capital Program	CTT No.	DESCRIPTION	Probable 2011	2012	2013	2014	2015	2016	2012-2016	2017	2018	2019	2020	2021	POST 2021	2012-2021	EFC	Project Commit Change
SOGRS	4.11	CTT111	Future Purchase of 206 Replacement 40 LF Clean Diesel Buses or Equivalent (2013 on) - Delete 134			(45,475)	(29,870)	8,327	17,199	(49,819)						-	(49,819)	(49,819)	NC
SOGRS	4.12	CTT046	Purchase of 60 New Subway Cars (Ridership Growth & Spares) - Deleted			(39,000)	(29,485)	(87,100)	(231)	(155,816)	(5,224)						(161,040)	(161,040)	(151,339)
SOGRS	4.18	CTT122	Purchase of 204 LRV Cars - Delete 15 cars	(11,222)	(7,630)	(1,202)	(5,271)	(1,985)	131	(15,957)	(866)	(17,859)	(36,096)			-	(70,778)	(82,000)	NC
SOGRS	3.9	CTT146	Toronto Rocket / T1 Rail Yard Accommodation (formerly Rail Shops and C/H Amalgamation)	(100)	(1,983)	4,450	45,123	(25,550)	(45,839)	(23,799)	(26,609)	(31,109)	(31,109)	(31,108)	(38,220)	227,054	(181,954)	45,000	1,061
SOGRS	3.9	CTT110	Temporary Bus Storage Facility		(4,610)	(4,325)	(14,185)			(23,120)					-	-	(23,120)	(23,120)	1,861
SOGRS	2.4	CTT142	Bloor-Danforth ATC Resignalling								(35,000)	(35,000)	(35,000)	(30,000)	(15,000)	150,000	(150,000)		NC
SOGRS	3.9	CTT024	Fire Ventilation Upgrade		(205)	1,764	(1,439)	(1,740)	(4,227)	(5,847)	(9,518)	(3,695)	(9,343)	(8,119)	(2,708)	39,230	(39,230)		18,595
SOGRS	2.3	CTT006	Collectors Booth Controls		(357)	(371)	(340)	(343)	(120)	(1,531)	(120)	(121)	(121)	(121)	-	-	(2,014)	(2,014)	(450)
SOGRS	3.9	CTT110	Collector Booth Renewal Program				(200)	(823)	(823)	(1,846)	(823)	(823)	(823)	(823)	(823)	-	(5,961)	(5,961)	1,861
SOGRS	3.3	CTT018	On-Grade Paving Rehabilitation Program							-	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	-	(50,000)	(50,000)	NC
SOGRS	4.13	CTT112	Bus Rebuild Program - Revised cashflow	(1,271)	(6,262)	7,479	12		(2)	1,227		(2)	47			-	1,272	1	NC
LEGIS	6.1	CTT058	Garage Subsurface Remediation Program - MOE		3,162	2,475				5,637							5,637	5,637	5,637
SOGRS	3.9	CTT110	Revenue Operations Facility - Cost increase		2,000					2,000							2,000	2,000	2,000
			TOTAL PROJECT CHANGES	(12,593)	(15,885)	(74,205)	(35,655)	(109,214)	(33,912)	(268,871)	(88,160)	(98,609)	(122,445)	(80,171)	(66,751)	416,284	(725,007)	(321,316)	(120,774)

APPENDIX B

TTC 2012-2016 CAPITAL PROGRAM REQUIREMENTS & SOUR	CES OF FUNDING
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Assumptions: Expenditures based on proposed 2012-2016 Capital Program - Blue Pages Amended for Sept. 16, 2011 (Source Funding Calc: 12CP Funding Summary June 8)

Depending TTO Dramound Amounded 2010 2021 Orace Durden	0.0	main ain a Car	to make an Ad	0.0044		Amended	for Sept. 16,	2011 (Source Fi	inding Calc: 1	12CP Fundin	ig Summary	June 8)		
Based on TTC Proposed Amended 2012-2021 Gross Budger	- Com	<u>2011</u>		<u>2011</u> 2013	<u>2014</u>	<u>2015</u>	<u>2016</u>	2012-2016	<u>2017</u>	<u>2018</u>	<u>2019</u>	2020	2021	2012-2021
\$ minons	_	2011	<u>2012</u>	2013	2014	2015	2016	2012-2010	2017	2018	2019	2020	2021	2012-2021
PROPOSED CURRENT BUDGET REQUEST														
State-of-Good-Repair / Safety		750	999	949	723	602	622	3,893	530	496	426	372	393	6,110
Legislative		32 6	44 8	50 8	40 12	39	33 4	207 44	35 5	28 3	24 3	22 3	23	338 64
Improvement Capacity Enhancement		38	° 21	ہ 14	12	12 9	4	44 59	5	2	3	3	5	66
Expansion		14	8	20	30	34	38	130	21	1	-	-	-	152
Vehicles	=	326	424	303	220	249	283	1,479	179	141	53	38	39	1,928
Infrastructure / Other		513	656	738	595	448	418	2,855	328	290	277	279	317	4,346
Total Gross - Base Capital Program Request: Shortfall Reduction Plan September 9, 2011		940	1,080	1 0 4 1	015	606	702	4 224	507	424	220	217	255	6 074
Reduction Fian September 9, 2011	- S	840	1,000	1,041	815	696	702	4,334	507	431	330	317	355	6,274
Preliminary Request 2012-2021 Gross Budget - June 8, 2011	R	852	1,096	1,115	851	806	736	4,603	595	529	452	397	422	6,999
CHANGE FROM PRELIMINARY	E	(13)	(16)	(74)	(36)	(109)	(34)	(269)	(88)	(99)	(122)	(80)	(67)	(725)
	N N													
SHORTFALL REDUCTION CHANGES: Future Bus Purchases - delete 134 buses	EXPENDITURES			(45)	(30)	8	17	(50)						(50)
Future Subway Growth Cars - delete 60 cars	ŭ		-	(45)	(30)	o (87)	(0)	(50)	- (5)			-	-	(50)
LRV Purchase - delete 15 cars		(11)	(8)	(33)	(23)	(37)	(0)	(130)	(3)	(18)	(36)			(101)
TR/T1 Rail Yard Accommodation - deferral of work	GROSS	(11)	(0)	(1)	(3)	(26)	(46)	(10)	(1)	(13)	(30)	(31)	(38)	(182)
Temporary Bus Storage Facility - delete	A.C	-	(5)	(4)	(14)	(20)	-	(23)	(27)	-	-	(01)	(00)	(102)
Bloor-Danforth ATC Resignalling - deferral of work		-	-	-	(<i>,</i>	-	-	(10)	(35)	(35)	(35)	(30)	(15)	(150)
Fire Ventilation Upgrades - deferral of work		_	(0)	2	(1)	(2)	(4)	(6)	(10)	(4)	(9)	(8)	(3)	(39)
Collector Booth Renewal - delete modifications		_	(0)	(0)	(1)	(1)	(1)	(3)	(1)	(1)	(1)	(1)	(3)	(8)
On-Grade Paving - deferral of work		_	(0)	(0)	-	-	-	(0)	(1)	(1)	(10)	(1)	(10)	(50)
Bus Rebuild Program - deferral from 2011		(1)	(6)	7	0	-	(0)	1	-	(0)	0	-	-	1
Garage subsurface - cost change		-	3	2	-	-	-	6	_	-		-		6
Revenue Ops Facility - cost change		-	2	-	-	-	-	2	-	-	-	-	-	2
Total Project Deletions/Deferrals		(13)	(16)	(74)	(36)	(109)	(34)	(269)	(88)	(99)	(122)	(80)	(67)	(725)
	-													
Funding Sources														
Ontario Bus Replacement Program (OTVP/OBRP)		-	-	-	-	-		-	-	-	-	-	-	-
Ontario Rolling Stock Infrastructure Funding Golden Horseshoe Transit Investment Partnerships (GTIP/TTIP)		15 1	8 3					8			-			8
Provincial gas tax		74	73	73	73	73	73	366	73	73	73	73	73	732
Canada Strategic Infrastructure Fund (CSIF)		15	27	6	9	10	12	63	7	-	-	-	-	70
Metrolinx Quick Wins	S S	83	157	52	-	-	-	209	-	-	-	-	-	209
204 LRV Funding	SOURCE	57	39	42	42	39	35	196	35	30	-	-	-	261
Total Provincial Funding	15	245	306	173	124	122	120	845	115	103	73	73	73	1,282
Base Federal Gas Tax - 5 cent (population)	ŏ	154	154	154	154	154	154	772	154	154	154	154	154	1,544
Canada Strategic Infrastructure Fund (CSIF) Infrastructure Stimulus Funding (ISF)		21 21	13	6	9	10	12	50	7	-	-	-	-	56
Total Federal Funding	S	197	168	160	163	164	167	821	161	154	154	154	154	1,600
TTC internal (depreciation)	DNIC	41	29	21	20	19	22	111	19	20	20	24	22	216
Other Reserves / Funding Partners		5	0	-	-	-	-	0	-	-	-	-	-	0
Development charges	FUN	13	10	9	6	6	6	38	5	4	-	-	-	47
Total Other Funding	_ ••	58	40	30	26	26	28	149	23	24	20	24	22	263
City Debt Target - CFO Recommended		452	602	355	212	165	113	1,447	174	179	174	174	174	2,322
OBRP Related Debt - Provincial SLD		-	-	-	-	-	-	-	-	-	-	-	-	-
City Carryforward - Deferred Debt Issued Total City / Other Funding		510	642	- 385	238	- 190	- 141	- 1,596	- 197	203	- 194	- 199	- 196	2,585
Total Funding		952	1,115	718	525	476	428	3,262	473	461	421	426	424	5,467
Funding Shortfall (Surplus)		(112)	(36)	324	290	220	274	1,072.0	34	(30)	(92)	(109)	(68)	806.7

TORONTO TRANSIT COMMISSION REPORT NO. 12

MEETING DATE: June 8, 2011

SUBJECT: 2012-2016 CAPITAL PROGRAM AND 10 YEAR FORECAST

ACTION ITEM

RECOMMENDATION

It is recommended that the Commission:

- (1) Approve the <u>preliminary</u> 2012-2016 Capital Program and 10 Year Forecast as described in this report and as summarized in Appendix A, including the following:
 - (a) the 2012 Capital Budget in the amount of \$1,095.7 million, noting that identified capital funding sources are more than sufficient to fund the 2012 capital budget request;
 - (b) the 2012-2016 Capital Program in the amount of \$4.603 billion, noting that the capital expenditures needed to maintain the existing transit system in a state-ofgood-repair over this 5 year period exceed currently identified capital funding sources by \$1.336 billion;
 - (c) the 2012-2021 TTC Capital Forecast in the amount of \$6.999 billion, noting that the capital expenditures needed to maintain the existing transit system in a stateof-good-repair over this 10 year period exceed currently identified capital funding sources by about \$1.508 billion;
 - (d) Note that the 10 year capital funding shortfall is a continuation of the long term pattern of insufficient long-term capital funding for the TTC's capital needs. Over recent years, each capital budget process shows sufficient funding in the shortterm and a significant lack of identified funding in the mid to long term. Also contained in this report is a series of funding package requests for the Provincial and Federal governments that, if funded, would eliminate this 10 year shortfall;
 - (e) the budget for the Toronto-York Spadina Subway Extension with an estimated final cost of \$2.634 billion, including \$685.5 million in 2012 and \$1.963 billion for the years 2012-2016;
 - (f) the Capital Workforce Plan summarized in this report;

- (2) Confirm support for the Strategic Funding Packages outlined in this report, and direct staff, in consultation with the City of Toronto, to prepare appropriate requests to the Province of Ontario, Metrolinx, and the Government of Canada in pursuit of funds for the TTC's base capital program needs as outlined in this report.
- (3) Forward this report to the City of Toronto as the TTC's preliminary capital budget request for approval by City Council.
- (4) Forward this report to the Ontario Minister of Transportation, the Ontario Minister of Public Infrastructure Renewal, and to the Ontario Minister of Finance, for consideration of TTC's base capital funding needs.
- (5) Forward this report to the Federal Minister of Transport, Infrastructure and Communities, for consideration of TTC's base capital funding needs.
- (6) Forward this report to Metrolinx, for consideration of TTC's base capital funding needs.

BUDGET CONTEXT

The 2011-2015 Capital Program and 10 Year Forecast included all known funding and while City debt levels were significant in the initial years, there remained a significant funding shortfall over the ten years in the order of \$2.4 billion. Due to the lack of long term funding commitments, action was taken to defer certain project work to provide a Council approved plan that was affordable in the short term, while noting that project deferrals would need to be reassessed during the development of the 2012-2016 Capital Program and ten year forecast and acknowledging once again that a longer term, predictable and sustainable funding model was sorely needed. The combined impact of these capital budget reductions was in the order of \$256 million for the period from 2011 to 2013. This included significant adjustments to the following projects: Fire Ventilation Upgrades, Easier Access (elevator installation), Industrial Facility and Facility Renewal Requirements, Bus Purchases and Platform Edge Doors. Following these amendments, the capital program was approved by City Council on February 23, 2011. At that time there still remained a gap of approximately \$2.1 billion between projected capital expenditures and the funding available over the ten year period.

For the current capital budget cycle, the City of Toronto has established clear debt guidelines for funding of capital expenditures in order to ensure compliance with the policy of restricting debt service costs to no more than 15% of the property tax levy. For the TTC, the debt target for our base or state-of-good-repair capital program is \$2.322 billion for the ten year period from 2012 to 2021. (For the Spadina Subway Extension, the debt target during this same period is \$214.4 million.) This debt target, together with other identified sources of funding such as Federal and Provincial gas taxes, the Canada Strategic

Infrastructure Fund (CSIF), the Infrastructure Stimulus Fund (ISF), Development Charges, and other smaller sources, comprise the means by which the TTC's capital program is funded.

For the 2012 to 2021 Capital Program, as shown later in this report (see the Base Program Funding section), it is currently projected that there is a \$1.508 billion funding shortfall between what is needed to fund the base budget versus funding that is currently identified. While there is sufficient funding available to fully cover the 2012 capital expenditures, there is insufficient funding for the future starting in 2013. In order to fulfil all of the capital needs and plans, this additional funding will have to be secured in some form from federal and provincial governments.

This pattern of enough money in the short-term and insufficient money in the long-run has been a constantly reoccurring theme ever since the Province moved away from the 75% capital funding formula that was in place during the 1970s and 1980s through to the mid 1990s. Since then, each year the funding shortfall is identified, a set of possible funding requests of the two upper levels of government is prepared, a formal request is made and, after a period of consideration, an announcement may be made on available funding. This process is not conducive to the effective planning and budgeting necessary to ensure that the transit system is adequately maintained. What is required is a return to the funding stability and planning certainty of earlier decades.

At the same time, while expansion of the transit system is critical to the long-term viability of the City of Toronto and the broader GTA, given the Commission's capital investment priorities and the existing ridership base, it would be inappropriate to spend money on system expansion if state-of-good-repair replacement and rehabilitation of the existing system is not fully funded. While some progress was achieved over the past several years with Metrolinx and the Provincial government to provide system expansion funding, as well as some additional base funding, further long term commitments are required to fund the base Capital budget.

To address the substantial projected base program funding shortfalls noted above, staff has continued to work with City, Provincial and Federal officials to consider funding of proposed funding packages and further discussions are expected to continue in the hopes that these efforts will result in the identification of ongoing, predictable and long term funding for the TTC's base capital program. A significant portion of this funding shortfall can be attributed to the maturity or completion of specific program based contribution funding programs such as CSIF, ISF, TS, OBRP, Quickwins, etc., which provided significant contributions in past years but which have not yet been extended or identified as having a successor program for the continuing capital needs. Until such time as a sustainable funding formula can be developed, staff has prepared a list of possible funding packages that would form the basis of discussion with both the federal and provincial governments.

If actions by TTC and City officials prove to be unsuccessful in securing a commitment or

announcement of funding of sufficient magnitude to address the existing funding shortfall requirements, staff will be required to take appropriate further action. This action may include a review of the TTC operation and services with respect to available funding and directed priorities to assess the impacts of revising levels of services/operations/staffing to match the system to a level which is affordable from both a capital investment and operating subsidy perspective.

Staff will report back to the Commission in the fall with the status of funding package decisions and to update on City service level review outcomes and to recommend and/or seek direction on further actions required to address remaining funding shortfalls and to finalize the 2012-2016 Capital Program and 10 Year Forecast.

BUDGET HIGHLIGHTS

The 2012-2016 Capital Program is consistent with Commission priorities and the plan approved by City Council last year. While project timing and cash flows have been adjusted to reflect more current information, there has been no significant change in the overall budget requirement: the 2011 probable and the 2012 request are both lower than the approved budget and the 2011-2015 five year budget envelope has increased by about 1.1% (primarily due to 2010 deferrals), while the 2011-2020 ten year forecast is down by 2.1% (primarily as a result of deferral of platform edge doors projects outside of this timeframe). Funding continues to represent the greatest challenge to moving forward with the base capital program. Highlights of the 2012-2016 Capital Program are as follows:

- \$1,096 million is budgeted for 2012 for the base capital program:
 - \$658 million for infrastructure and related projects, including \$394 million for rehabilitation of buildings, structures, tunnels, bridges, yards and roads, \$53 million for track work, \$155 million for signals, electrical and communications equipment, and \$28 million for various information technology projects and, \$28 million for various facility, equipment and environmental projects.
 - \$438 million for vehicles, including \$189 million toward the purchase of 234 Toronto Rocket Subway Cars, \$61 million toward the procurement of 60 buses and 198 new Wheel-Trans buses, \$124 million toward the purchase of 204 LRV's, \$54 million for bus, subway car and streetcar overhaul programs and, \$10 million for the acquisition or overhaul of various non-revenue vehicles.
 - Based on current funding assumptions, there is more than sufficient funding available to cover the 2012 budgeted expenditures.
- \$4.603 billion is budgeted for the five years from <u>2012 to 2016</u> for the base capital program, including \$2.904 billion for infrastructure and related projects and \$1.699 billion for the procurement and overhaul of vehicles. Based on current funding

assumptions, this will leave a funding shortfall of \$1.336 billion for the base program over the next five years.

- \$6.999 billion is forecasted as the overall requirement for the base capital program for the ten years from 2012 to 2021, including \$4.790 billion for infrastructure and related projects and \$2.209 billion for the procurement and overhaul of vehicles. Based on current funding assumptions, this will leave a funding shortfall of \$1.508 billion over the next ten years.
- A summary of expenditures for key program elements in the base program is included as Appendix A.
- \$685 million is required in 2012 and \$1.963 billion from 2012 to 2016 for the construction of the Toronto-York Spadina Subway Extension. Provincial funding has been provided in advance and Federal funding has been committed.
- The budget requirements for 2012 and beyond for the Eglinton Crosstown and Sheppard East & West Subway extension projects have not yet been identified and will be the subject of future reporting to the Commission.

2012-2016 CAPITAL PROGRAM

1 - Mar

With an investment approaching \$11 billion in existing assets (many of which last for decades) and ridership volumes at record levels, the existing transit network must remain the TTC's first priority. The base capital program covers the acquisition of new and replacement transit assets needed by the TTC for the provision of public transit services within the City of Toronto and under contract with adjacent municipalities. In establishing the budget, a life-cycle approach is used. Detailed system inventories of each class of capital asset are maintained. Budgets are set to replace or rehabilitate assets based on engineering standards, legislative condition assessments, requirements or safety/environmental implications. A one-year budget, five-year program and ten-year forecast are developed: all designed to keep the TTC's capital assets in proper working order. The capital plan was constructed using the Commission's long standing capital budget priorities which remain:

- 1. State-of Good-Repair and Safety
- 2. Legislative
- 3. Capacity Enhancement
- 4. Improvement
- 5. Expansion

In view of the continuing funding constraints for the state-of-good-repair capital program, during preparation of the 2012-2016 Capital Program budget and 10 year forecast a reassessment of every element of the budget was undertaken. Critical rehabilitation work,

2012-2016 CAPITAL PROGRAM AND 10 YEAR FORECAST

infrastructure development for fleet accommodation and, replacement of vehicles are included in the proposed capital plan.

The cash flow for each program or project element is set out in the 2012-2016 Capital Program Blue Pages. Note that Blue Binders with current project documentation have not been prepared for the 2012-2016 Capital Program and 10 Year forecast as a result of the limited time available to meet the advanced budget schedule stipulated by the City of Toronto. Expansion initiatives, including the Toronto-York Spadina Subway Extension, a Transportation/Transit Plan as well as the Yonge North Subway Extension, and various Other TTC Recommended projects and Waterfront Initiatives are outside of the base capital program.

Key elements of the \$1.096 billion in the base capital program for 2012 are shown in Exhibit 1.

TTC - PROPOSED		
2012 BASE CAPITAL PROGRA	٨٨	
(\$ millions)	<u></u>	
Delivery of 60 Diesel Buses + WT Vehicles	61	``
Purchase of 234 + 126 Subway Cars (delivery of first 138 cars & milestone payments)	189	427
Purchase of 204 LRV Cars (milestone payments - first delivery 2012)	124	ľ
Vehicle Overhaul Programs (Bus, WT, Subway, Streetcar)	53	J
3.1-3.3 Finishes, Equip, Yards & Roads	65	Ì
3.4 Bridges & Tunnels	53	
3.9 LRV & CH (156), EA II&lll (22), Facility Renewal (9), QW/MD/Birch Gar (11)	198	37
3.9 Fire Ventilation (26), Wilson CH & FA (28), , TR Mods (4)	58)
1.x Track Programs	53)
2.x Signals Electrical Communications, OH & Poles (17), YUS ATO (92)	155	.29
4.2x NRV (10), 5.x Equipment (6), 6.1 Environ (14), 7.x IT (28) Other projects	58 29	
TTC REQUEST LEVEL	<u>47</u> <u>\$1,096</u>	1

Expenditures for the next five years from 2012 to 2016 are budgeted in the order of \$4.6 billion as shown in Exhibit 2.

Exhibit 1

	Five	APITAL Year Er Najor Ca (\$ millior	nvelo atego	ре	
		(y millioi	13)		
	2012	2012-2	016	-	
SOGRS	1,018	4,168	91%		
Legislative	41	201	4%		LEGIS
Capacity Enhance.	8	44	1%	SOGRS	4%
Improvement	21	59	1%		CAP
Expans/ GTA	8	130	3%		ENH 1%
Total	1,096	4,603			ANV IMPRO

As can be seen from the exhibit, almost \$4.4 billion about 95% of the capital budget for the five years from 2012 to 2016 is committed to state-of-good-repair/safety and legislative projects. Notably, 37% of budgeted expenditures for the next five years are for vehicle procurements and overhauls. Key elements of the base capital program over the next five years include:

- acquisition of:
 - o 400 diesel 40' equivalent buses (\$242 million)
 - o 360 Toronto Rocket Subway cars (\$460 million)
 - o 204 LRV's (\$604 million)
 - o 198 Wheel-Trans buses (\$34 million)
- the overhaul of revenue service vehicles (\$325 million)
- construction of a new LRV storage and maintenance facility (\$370 million)
- TR/T1 Rail Yard Accommodation (\$335 million)
- installation of automatic train operation and re-signaling on the Y-U-S subway line (\$276 million)

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- various signals, electrical and communications projects (\$263 million)
- track replacement (\$259 million)
- fare systems (\$152 million)
- installation of elevators in the subway (\$147 million)
- upgrading of fire ventilation equipment and second exits in the subway (\$135 million)

- upgrades to information technology assets (\$113 million)
- on-grade and structural paving (\$88 million)
- roofing rehabilitation (\$76 million)
- carhouse modifications to accommodate new LRVs (\$58 million)

Approximately \$7.0 billion is required over the next 10 years from 2012 to 2021 for the base capital program as shown in Exhibit 3.

	e e			ΈΣ	<u>chibit</u>	3						
(\$ Millions)	2012	2013	2014	2015	2016	2012-2016	2017	2018	2019	2020	2021	2012-2021
Infrastructure	658	734	566	476	469	2,904	410	370	363	359	383	4,790
Vehicles	438	381	284	330	266	1,699	185	159	89	38	39	2,209
TOTAL	1,096	1,115	851	806	736	4,603	595	529	452	397	422	6,999

Expenditures over the next decade are dominated by (i) the need to overhaul and replace aging buses (\$597 million) and subway cars (\$651 million), (ii) the acquisition of 204 LRVs (\$855 million), (iii) the construction of an LRV Storage and Maintenance Facility (\$370 million) and replacement of subway track (\$229 million) and streetcar track work (\$312 million), (iv) rail-yard accommodation for the Toronto Rocket and T1 subway cars (\$498 million), (v) major structural rehabilitation of the Commission's bridges and tunnels (\$391 million), (vi) installation of elevators in the subway system (\$261 million), (vii) upgrade of fire ventilation equipment and second exits in the subway (\$203 million), (viii) installation of automatic train operation and re-signaling on the Yonge-University-Spadina line (\$288 million) and the Bloor-Danforth line (\$391 million), and (ix) the need to upgrade the Commission's information technology assets (\$232 million). In addition, several other major projects will be undertaken requiring significant investment including: various signal, electrical and communications projects (\$367 million), roofing rehabilitation at various TTC locations (\$138 million), on-grade and structural paving (\$226 million), fare systems (\$180 million), and escalator and elevator overhauls (\$98 million).

It should be noted that there are a number of initiatives currently included in the 2012-2021 capital program which involve study work and detailed analysis of existing conditions and capital requirements, and current plans are based on assumptions of currently known conditions, for which changes resulting from the ongoing assessment activities may impact existing capital priorities and will be considered in future budget cycles (commencing with the 2013-2017 budget cycle). For example, detailed analysis is currently being undertaken for the accessibility project involving elevator installations (EA III) which may have a potential cost increase in the order of \$120+ million due to experienced complexity of design/construction and property implications within the existing station infrastructure.

2012-2016 CAPITAL PROGRAM AND 10 YEAR FORECAST

Key program elements for the base capital program over the next 10 years are outlined in the Appendix A.

BUDGET COMPARISON

Exhibit 4 shows the changes in the requested budget from that approved by City of Toronto Council in February of this year.

Exhibit 4

ENVELOPE	CO	MPA	RISO	٧S
			T T	
BUDGET COMPARISON			2011 to 2015	2011 to 2020
(\$Millions)	2011	2012	Envelope	Envelope
Approved - Base Capital Program	870	1,132	4,666	7,592
Requested - Base Capital Program	852	1,096	4,720	7,429
Change in Base Program	(18)	(37)	53	(163)
City 2010 Carry Forward Request	(44)	-)	((44)) ((44)
Net Change in Base Program	(62)	(37)	9	(207)

The 2012-2016 Capital Program and 10 Year Forecast requirements for the proposed base capital program have been identified with the following impacts:

- 2011 will be under-spent by \$18 million (excluding carry forwards) primarily as a result of delayed progress on the new LRT Maintenance & Storage Facility (-\$39 million) offset by the timing of payments for the 204 LRV car order (+\$21 million).
- 2012 will be under the approved budget by \$37 million primarily as a result of additional scope for the YUS ATC resignalling project (+\$27 million), slippage on the LRT Maintenance & Storage Facility (-\$33 million) and, timing and scope reductions on the PRESTO/GTA Farecard and POP Legacy projects (-\$32 million).
- 2011-2015 capital requirements will increase by \$53 million or 1.1% largely as a result of the following:

- increased scope of work on the YUS ATC resignalling project (+\$57 million)
- added back scope on the Fire Ventilation Upgrade project (+\$38 million)
- timing of elevator installation on the Easier Access III project (+\$31 million), noting there may be additional costs of \$120 million relating to complexities of design/construction/property experienced at existing stations and this will be reviewed in 2013 budget cycle
- deferral of the installation of Platform Edge Doors on the YUS line (-\$165 million)
- add back of 120 bus purchases (+ \$73 million)
- cash flow timing adjustment on the 204 LRV order (+ \$77 million)
- reduced scope on the POP Legacy Streetcar fare equipment (-\$44 million)
- 2011-2020 capital requirements will decrease by \$163 million. The primary source of these plan changes (over the ten year period 2011-2020) includes the following:
 - Purchase of replacement buses (+ \$75 million)
 - Purchase of replacement Wheel-Trans buses (-\$35 million)
 - Temporary Bus Storage at Mt. Dennis Garage (+ \$23 million)
 - TR/T1 rail yard accommodation (-\$63 million)
 - YUS ATC (+ \$65 million)
 - BD ATC (-\$71 million)
 - Removal of platform edge doors on the YUS (-\$165 million)
 - Streetcar Network Upgrades (+ \$25 million)
 - Easier Access III (+\$32 million)
 - Temporary Bus Storage Facility (+\$23 million)
 - Industrial facility requirements (-\$21 million)
 - McBrien Building Renovations (-\$10 million)

- ERP System Replacement (-\$30 million)
- other project changes (-\$11 million)

BASE PROGRAM FUNDING

Funding for TTC capital expenditures comes from several sources. There are federal and provincial gas taxes; both federal and provincial governments have also provided funding under various programs such as the CSIF (Canada Strategic Infrastructure Fund), ISF (Infrastructure Stimulus Fund), OBRP (Ontario Bus Replacement Program), Metrolinx Quick Wins and numerous other sources of funding. These types of funds are mostly project specific and expire once the funds are exhausted or the time limits expire.

The City of Toronto also provides direct capital funding to the TTC. The bulk of this is in the form of debt issuance and the City sets annual debt affordability targets. Ideally, all of the available funding sources added together would match the capital needs of the system. As

set out in this report, that is not the case.

In addition to government funding noted above, the TTC has a depreciation charge levied against the TTC Operating Budget. This is normally in the order of \$20-\$25 million per year and provides a source of funding for expenditures paid towards short duration capital assets that qualify for capitalization for accounting purposes, but are shorter than the 10 year minimal debt issuance by the City of Toronto. Other funding is also provided through third party arrangements as well as through Development Charges which are levied under the Municipal Bylaw.

All of these funding sources are summarized in Exhibit 5.

(\$Millions)	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2011-</u> 2015	<u>2012-</u> 2016	<u>2011-</u> 2020	<u>2012-</u> 2021
Vehicles	339	438	381	1,772	1,699	2,509	2,209
Infrastructure / Other	<u> </u>	658	734	2,948	2,904	4,920	4,790
Proposed Capital Program Budget	852	1,096	1,115	4,720	4,603	7,429	6,999
			- 			11	
unding Sources:							
Total Provincial Funding	249	309	173	978	850	1,481	1,306
Total Federal Funding	197	168	160	851	821	1,642	1,600
Total City Debt	452	602	355	1,786	1,447	2,600	2,322
Total Other Funding	58	40	30	179	149	299	263
Total Funding	955	1,118	718	3,795	3,267	6,022	5,491
unding Shortfall (Sumius)	(103)	(22)	397	925	1336	1207	1 508

Exhibit 5

Note: Funding for the Spadina Subway Extension, Transit Expansion, Waterfront, and Other TTC Recommended projects are shown separately from the base program requirements.

For the base capital program Exhibit 5 shows that:

 For 2012, there is a net surplus of \$22 million compared to anticipated expenditures.

- For 2012-2016, there is currently projected to be a \$1.336 billion funding shortfall.
- For 2012-2021, there is currently projected to be a \$1.508 billion funding shortfall.

No funding has been assumed beyond what has been currently committed to or announced by the Provincial and Federal governments and it will be necessary to identify appropriate tools to address these funding shortfalls such as allocation of the 2011 funding surplus and continued pursuit of funding for identified strategic funding packages.

The full 10 year expenditure requirements and funding sources are summarized in Appendix B.

FUNDING PACKAGES FOR PROVINCIAL AND FEDERAL GOVERNMENT

<u>Key Project Funding Packages</u> have been identified as summarized in Exhibit 6 and consistent with previously identified packages. These should continue to be pursued with the intent of securing additional funding to address the \$1.5 billion funding gap for the base program. If 1/3 funding was secured from each of the provincial and federal governments, the resulting funding shortfall would be eliminated for the ten years 2021-2021.

SUMMARY OF KE	Y PROJECT	PACKAG	EITEMS	
Program / Project Description / (\$Millions)	Year 2012	Year 2013	2012 to 2016	2012 to 2021
SUBWAY CAPACITY	29	168	673	1,227
LEGACY STREETCARS	163	181	470	487
BUS FLEET	65	87	496	671
ACCESSIBILITY	48	39	191	311
FARE COLLECTION	2	6	40	47
TOTAL - PACKAGE ITEMS		480	1,870	2,743
FUNDING ASSUMPTION - 1/3 SHARE FROM EACH OF PROV / FED GOVTS	<u>\$ 205</u> <u>\$</u>	320	<u>\$ 1,247</u>	<u>\$ 1,828</u>
CURRENT FUNDING SHORTFALL 2011-2020 CAPITAL BUDGET & PLAN (with 2010 CF)	<u>\$ (22)</u>	397	<u>\$ </u>	<u>\$ 1,508</u>
REVISED FUNDING SHORTFALL WITH GOVT FUNDING PACKAGES	(227)	77	89	(320)

Exhibit 6

Following is a description of each of these packages (cash flows for these packages are more fully detailed in Appendix C).

1. Subway Capacity

The <u>Yonge-University-Spadina subway</u> is largely operating at maximum capacity during rush hour, particularly southbound from Finch station in the mornings, utilizing the existing technology of the line. These measures are all underway to improve the carrying capacity on the line from 26,000 per hour to 38,000 passengers per hour. To increase that capacity, the TTC has the following project plans which are already in place:

<u>60 Toronto Rocket (TR) Trains</u> (H4, H5 & H6 replacement and growth) are designed to be more reliable than current trains and can carry an extra 10% more riders. This increase in reliability and extra passenger carrying capacity effectively means we can carry more riders on the existing system than we are currently able to. In addition, through the exclusive operation of the TR fleet on the Y/U/S line, there will be the earlier realization of associated benefits such as: increased safety, reliability and efficiency.

- YUS Re-Signaling and Automatic Train Control: is one of the most significant initiatives the TTC has for increasing the capacity of the Yonge Subway. The existing signal system was installed when the line was built over 50 years ago. By replacing it with industry standard, state-of-the-art signaling equipment and equipping the line with automatic train control, closer headways (the time between trains) coupled with the new TR subway trains will result in a significant increase in carrying capacity and regularity of service will be achieved.
- <u>Double crossovers</u> to be installed south of College and south of St Clair and north of King will allow for more efficient system operation and replace obsolete signaling equipment.
- Union Station 2nd Platform (funded through Waterfront Toronto) will help alleviate the current overcrowding of the station and significantly increase the passenger boarding capacity of the station and should markedly reduce the dwell time at the station for trains loading and off-loading customers; contributing to more regular service on the YUS subway.

Yonge Bloor Capacity Improvements - (\$1 million): Yonge/Bloor is a major transfer point in the subway system and a study in 2011/2012 will evaluate the effectiveness of improvements in vertical capacity and dwell times to best accommodate increasing demand which would otherwise be a capacity constraint at this station. Additionally operating improvements to address the diversion of passengers to less populated cars at the Y-B station will improve the dwell time constraints at this station. This study may result in the identification of additional capital requirements for which there is an unbudgeted project presented below the line (\$200 million) which contemplates new platforms and station expansion to address vertical circulation constraints.

<u>Automatic Train Control – (\$568 million)</u>: In 2007 the Province agreed to fully fund the installation of Automatic Train Control and Re-signalling of the Yonge-University-Spadina line as part of a Quick Wins program initiative. While the commitment was substantial and work is progressing, the announcement was limited to the Quick Wins term of 2009-2012 and there remains a funding shortfall of \$177 million for this project for the remaining scope to 2018. This work is necessary not only to replace the 50 year old signals, but, to assist in the introduction of automatic train control which will enhance the vehicle capacity of the line. In addition, following the completion of ATC work on the YUS line, the installation of ATC on the Bloor-Danforth (BD) line will improve safety and service reliability and efficiency of service which is also approaching capacity, noting that once the TR trains are received, T1 cars will be redeployed to the BD line and equipped with ATC equipment to improve headway and the interoperability between the two lines particularly at the transfer points. The ATC project on the BD line is a \$431 million project with costs of \$391 million over the next 10 years.

10 Additional TR Trains – (\$161 million): Fleet growth cars with delivery scheduled by 2015 will facilitate line expansion or reduced headway operation.

<u>TR/T1 Rail Yard Accommodation – (\$498 million)</u>: The rail amalgamation study completed in 2010 identified modifications required to various subway yard complexes and facilities to accommodate proper delivery, storage and maintenance of up to 80 TR trains on the YUS line and the series cascading impacts from the transfer of all T1 cars to the BD line. Over time, the increased requirement to get additional trains into service will need to be revisited with alternatives including closing the subway early or building a North Yonge Tail track for storage. A reassessment of shop facilities design has resulted in \$64 million savings to the \$594 million project.

<u>Platform Edge Doors (PEDs) for YUS</u>: The retrofit of PED features for existing stations on the YUS would improve service reliability and customer safety as well as improve platform environmental and debris conditions. This project is estimated to cost in the order of \$550 million, however, despite its benefits, it has been deferred beyond 2021 due to existing funding constraints. <u>PED</u> installation on the BD line would follow subsequently at an estimated cost in excess of \$600 million.

All of these improvements are needed to address subway capacity requirements before the alternative of building a Downtown Relief Line would be warranted.

2. LRV Facilities

LRV Maintenance & Storage Facility (MSF) – (\$370 million): While one-third provincial funds have been secured for the acquisition of 204 LRV's to replace the TTC's current

fleet of streetcars that are reaching the end of their 30-year life (\$1.164 billion), staff has had some discussions with government officials to consider the support of the cost for the facility to accommodate running repairs and maintenance for the full LRV fleet as well as storage for 100 cars. The Ashbridges MSF project has a total cost of \$437 million with necessary construction by 2013 to accommodate the commencement of vehicle delivery.

Existing Carhouse Modifications New LRV – (\$68 million): Modifications at existing aging carhouse facilities (Roncesvalles, Russell) are required to accommodate the light maintenance and some storage requirements for the new LRV cars. The total project cost is \$75 million. These include modifications to address state of good repair or replacement, operational and health and safety standards and new design impacts of the LRV cars technology.

<u>Streetcar Network Upgrades for LRT – (\$49 million):</u> The streetcar network involves 11 lines with 757 unique streetcar stops, including 114 with island platforms. The majority of stops provide on-street boarding only and most need to be modified to become fully accessible and accommodate passengers with disabilities upon deployment of new low-floor LRV vehicles. This includes curb cuts, island modification/reconstruction and wider platforms.

3. Bus Fleet Requirements

Bus Hoist Replacements - (\$63 million): The bus garage facilities has a fleet of 146 bus hoist which are aging as well as require updating to address safety zone or parallelogram lift standards and 103 are scheduled for replacement over the next 11 years.

<u>Bus Rebuild Program - (\$319 million)</u>: With the changes in the fleet for new vehicle procurements and changing technology, as well as pending a review of the standard bus life, the bus rebuild program was removed from the 2010 capital plan. A review was undertaken last year and this program was re-introduced as part of the 2011-2015 capital program to provide for 120-240 bus rebuilds annually (over 1500 over the next 10 years).

Bus Procurement - (\$244 million): The purchase of 400 clean diesel buses is planned over the next 10 years based on the standard bus life of 18 years.

<u>Temporary Bus Storage Facility - (\$23 million)</u>: There is a shortage of bus storage capacity and based on the forecasted bus fleet plan, a new bus garage would be required by 2016. To address the short term bus storage capacity need, work will be undertaken to expand the storage capacity at Mt.Dennis and Arrow Bus Garages to accommodate an additional 100 buses. A new bus garage is recommended as a long term solution and to help to accommodate future ridership growth, however this project is unbudgeted and is currently shown below the line (\$120 million). . . À

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4. Accessibility

The Accessibility for Ontarians with Disabilities Act (AODA) requires full accessibility by 2025. The TTC is moving forward to achieve this goal with its bus fleet by 2012, its stations by 2025 and light rail by 2018. A senior government commitment for long-term sustainable funding for accessibility would assist with projects underway or required to meet AODA requirements such as vehicle modifications and standards compliance (\$TBD), installation of elevators in all stations (\$261 million), replacement of escalators at the end of their useful life (\$16 million) and, Wheel-Trans vehicles (\$34 million) - as well as a contribution towards the Wheel-Trans operating budget.

5. Fare Collection

GTA Farecard (PRESTO) – (\$202 million not currently budgeted): This project reflects the costs (above and beyond the CSIF included funds of \$140 million) estimated a total of \$342 million to implement the PRESTO fare collection system at the TTC. Staff is currently assessing the business case for an open payments system as directed by the Commission in May 2010 versus PRESTO and pending this decision, funding from senior levels of government may change.

POP LRV Fare Collection – (\$47 million): The new LRV cars will require ticket vending equipment on board the vehicle and off-board at select TTC streetcar stops. In addition, infrastructure work is required for concrete pads and power to support the installation of off-board equipment at 150 street level stops.

Given the Commission's capital investment priorities, it would be inappropriate to spend money on expanding the system if the normal state-of-good-repair replacement and rehabilitation of the existing system is not fully funded. To address this important concern, staff has continued to meet with City, Provincial, Metrolinx and Federal officials in an effort to gain a commitment on approaches to close this funding gap.

WORKFORCE IMPLICATIONS

At the end of 2011, the TTC had an approved capital workforce of 1,853. Almost 40% these positions are for hourly-rated workers who perform most of the major rehabilitation work on the Commission's assets covering everything from track installation to structural work in the subway to signals, electrical and communication equipment work to revenue vehicle rebuilds. The bulk of the rest of the employees are for design and project management for major capital projects. The positions are tied to specific capital projects and once those projects (or series) of projects are completed, the employees are transferred to other projects for which they are suited. In addition, the Commission utilizes a series of external consultants, mostly for design and IT project services, when the volume or skill of internal employees is not sufficient to complete the capital program.

AREA	201.1	2012	GHANGE
Engineering/Construction	330	330	-
Spadina Subway Extension	34	35	11
Transit Expansion Department *	278	278	
ITS Projects	18	18	-
All Other	1193	1255	62
Total	1853	1916	63

It is projected that capital workforce will increase in 2012 as follows:

* No change in workforce for the Transit Expansion Department has been identified pending confirmation of the delivery models for the Eglinton Crosstown and Sheppard Subway Extension projects.

These capital positions will be included in the 2012 TTC Organization Charts, which list each position at the Commission.

BUDGET CONCLUSIONS

The TTC is charged with the responsibility of providing efficient, safe and affordable public transit to the residents of the City of Toronto. The Capital Program set out in this report is structured to keep the existing system in a state-of-good-repair, while maximizing the use and life of assets to meet existing and future transit needs. However, while the plans are practical and achievable, they are dependent upon funding from all three orders of government – funding that is predictable and long term.

The following conclusions or observations can be made:

- 1. The TTC's priorities for capital investment remain unchanged.
- 2. The 2012-2016 Capital Program is consistent with the plan approved by the Commission and City Council last year.
- 3. The 2012 budget is \$37 million below the Council approved amount contained in the 2011-2015 Capital Program. The proposed 2012 budget is affordable within the City approved debt guidelines. After factoring in anticipated Federal and Provincial funding programs there is a \$22 million funding surplus for 2012.

- 4. The 2011-2015 budget envelope has increased marginally by about 1.1% (\$53 million), as staff has prioritized capital needs within the constraints of affordability directed by the City. The anticipated carry forward adjustment of \$44 million relating to 2010 project deferrals will almost fully offset this variance.
- 5. There is a funding shortfall of \$1.336 billion for the base capital program over the five years from 2012-2016 and a shortfall of \$1.508 billion over the ten years from 2012-2021. Use of 2011 surplus funds and the pursuit of Strategic Funding Packages will all assist in addressing these funding shortfalls for the base capital program.
- 6. While additional funding has been committed from the Province for the Eglinton Crosstown project and funding is being pursued for the Sheppard Subway east/west extension, much remains to be done to resolve the need for long-term, stable and predictable capital funding for the base capital program so that expansionary initiatives can proceed without compromising the ability to maintain the existing system.
- 7. Funding of the Strategic Funding Packages outlined in this report could contribute upwards of \$1.8 billion toward the base capital funding shortfall. These packages must be pursued with the Provincial and the Federal governments to ensure that these critical state-of-good-repair projects can proceed as planned and necessary.

The TTC represents an integral part of the transportation system of the City of Toronto and the GTA. Maintaining the existing system is critical to ensuring that existing peak ridership levels - projected to exceed 500 million in 2012 - can be adequately serviced in a safe, efficient and cost effective manner. Expanding the system is necessary to meet demand and to ensure that the City's Official Plan can be achieved. However, significant parts of the state-of-good-repair portion of the budget (the highest priority), remain unfunded. Expanding the system, as much as it is needed, only makes sense if the existing system is properly funded.

May 27, 2011 42-34

Attachment:

Appendix A - 2012-2021 Capital Program Summary Appendix B - 2012-2021 Capital Program & Sources of Funding Appendix C - Project Funding Packages

	2012-2016 (excludes	2012-2016 CAPITAL PROGRAM SUMMARY (excludes Commission approved amendments)	DGRAM SUMN	MARY ents)	• · · •							
SASE CAPITAL • PROGRAM ELEMENTS \$ millions	2012	2013	2014	2015	2016	2012 to 2016	2012 to 2021	2017-2021	2017	2018	2019	- 1
BASE CAPITAL - PROGRAM ELEMENTS						-105 01 81 05	1 TAT OF 1 1 42	1207.11.07				
Track	53.035	65 163	30 643	47 990	210 CZ	350 016		004 170				
Subway Track	14.944	22.821	15.511	17.996	18.879	90.151	228 551	138 400	33 074	58.69/	56.279	1
Surface Track	38.091	42.342	24.132	29.233	34.967	168 765	211 843	143 078	22.0/4	30.870	27.675	
Signals, Electrical, Communications;	155,480	117.445	105.589	80.118	79.669	538.301	1 045 605	507 304	107 635	21.821	28.604	
Traction Power	28.283	20.967	22.887	26.046	22.153	170 376	161 495	41 159	- 559701	100.70	103.721	1
Power Distribution	7.028	6.749	R R 1 R	240.040	500 a	33 364	501.490	41.159	9.101	7.881	8.023	
Communications	10 8 30	17 000	13 400	5.866	6.003	32.264	58./43	26.479	4.978	5.072	5.588	
Sinnal Systems	10.020	71.000	12.490	0.404	4.306	59./8/	99.531	39.744	11.649	8.518	6.517	
Enerov Management	100.540	/1.821	63.594	42.802	47.157	325.914	725.836	399,922	81.907	80.345	83.593	
Facilities and Structures:	104 107	190 106	-					•				
Finishes	26.739	25.135	19 764	16 006	16 011	1./68./84	2,665,563	896.779	196,802	176.175	171.462	1
Equipment	24.038	26.249	26 800	10,300	10.311	114 634	1/0.324	64.789	16.541	11.582	11.920	
Yards & Roads	14.052	19 288	20.030	22 202	33 050	00 EO1	106.907	100 000	20.046	21.006	20.667	
Bridges & Tunnels	52.503	48.874	20.019	40 013	43 708	007 077	209.323	109.822	23.355	20.801	19.750	
Buildings & Structures	276.865	369.950	245.942	179.292	152.801	1.224 850	1 622 310	397 460	47.27	76 715	70.447	
Computers:	27,608	21.103	22 939	17 292	24 388	113 330	570 666	118 743	10 531	33 843	21 222	
Corporate Systems	15.888	14.629	17,935	14.292	18.388	81.132	173.162	92.030	14.731	12.900	16.232	1
Intelligent Transportation & Technical												
Environment.	11.720	6.474	5.004	3.000	6.000	32.198	58.911	26.713	4.800	9.913	5.000	
	12./6/	28.173	40.078	47.387	53.359	181.764	239.958	58, 194	32.928	6.508	6.308	
Shop Equipment	2.745	3.155	3.048	2.310	2.882	14.140	27.538	13.398	2.804	2.666	2.697	
Revenue & Fare Handling Equipment	2.260	1.389	1.422	1,460	1.746	8.277	18.554	10.277	1.896	1,994	2.099	
Other Maintenance Equipment	1.143	0.957	0.862	0.832	0.865	4.659	9.009	4.350	0.870	0.870	0.870	
Fare System	5.602	22.358	34.476	42.124	47.661	152.221	179.775	27.554	26.901	0.653		
Furniture & Office Equipment	1.017	0.314	0.270	0.661	0.205	2.467	5.082	2.615	0.457	0.325	0.642	
Other.	15.057	12.740	5.217	5.048	4.588	42.650	66,627	23.977	4.261	4,323	4,387	
	13.645	9.287	2.794	2.625	2.165	30.516	42.283	11.767	2.226	2.288	2.352	
Buluual Land	1.412	3.453	2.423	2.423	2.423	12.134	24.344	12.210	2.035	2.035	2.035	
Subtotal - Infrastructure	658.144	734.120	566.057	475.971	469.453	2,903.745	4,790.220	1,886.475	410.300	370.332	363.389	1
Venicles:	-											
Purchase of Buses	60.790	50.116	45.017	34.761	85.042	275.726	277.946	2.220	0.422	0.433	0.444	
Bus Overhaul	22.729	25.726	47.280	46.324	47.103	189.162	318.909	129.747	45.968	25.801	28.883	
Purchase of Subway Cars	189.103	139.009	34.485	96.783	0.231	459.611	464.835	5.224	5.224			
Subway Car Overhaul	16.561	21.395	22.204	22.760	25.056	107.976	185.548	77.572	19.095	13.766	14.072	
Purchase of SRT Cars						•	•	•		•		
SRT Overhaul	4.551	4.743	•	•	•	9.294	9.294					
Purchase of Streetcars	124.271	126.244	131.538	118.483	103.930	604.466	854.729	250.263	106.312	107.855	36.096	
Streetcar Overhaul	9.445	8.829	•	•	0.280	18.554	35.408	16.854	•	4.000	4.200	
Purchase Non Revenue Vehicles	7.150	3.251	1.844	4.673	2.883	19.801	29.221	9.420	1.884	1.884	1.884	
Rail Non-Revenue Vehicle Overhauls /												
Purchases	2.918	2.061	2.120	5.782	1.873	14.754	32.736	17.982	6.243	5.065	3.198	
Subtotal · Vehicles	437.518	381.374	284.488	329.566	266.398	1,699.344	2,208.626	509.282	185.148	158.804	88.777	

APPENDIX A

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Page 1 of 1

Total City / Other Fu Total Funding Funding (Surpha)	City Carryton	City Debt Tan	Development charges 16	Other Reserv	TTC internal (Infrastructure	Canada Strat	Base Federal	Total Provincial Fund	204 LRV Funding 8	Bikelinx 3	Capital Reserve 3	Canada Strat	Provincial gas tax 10	Golden Horse	Ontario Rollin	Contario Bus Repla	Phoposed Ca			Vehicles	Expansion	Capacity E	Improvement	Legislative	PROPOSED State-of-G	CHANGE FR	Preliminayr i	PROPOSED BUDGET Council Approved 20		Based on	TTC 2012-1	
Total City / Other Funding Total Funding <u>drug Shoftal (</u> , 1997) drug (Surplus)	City Carryforward - Deferred Debt Issued	City Debt Target - CFO Recommended	charges 16	Other Reserves / Funding Partners 15	TC internal (depreciation) 14	Infrastructure Stimulus Funding (ISF) 13	Public Transit Capital Trust (noersnip) 12 Canada Strategic Infrastructure Fund (CSIF) 7,9	Base Federal Gas Tax - 5 cent (population) 11	Total Provincial Funding	Iding 8		Ne 3	Canada Strategic Infrastructure Fund (CSIF) 7,9	s tax 10 t Canital Trust - Provincial Tronum 14	Golden Horseshoe Transit Investment Partnerships (GTIP/TTIP) 6	Ontario Rolling Stock Infrastructure Funding 5	runding Sources Ontario Bus Replacement Program (OTVP/OBRP) 4	ar Capital Program Budget: 1	oran lentrest, base planta program Requestioning devices and a second				Capacity Enhancement	ent		ROPOSED CURRENT BUDGET REQUEST	CHANGE FROM APPROVED	Preliminayr Request 2012-2021 Gross Budget - June 2011	PROPOSED BUDGET Council Approved 2011-2020 Gross Budget - Feb 23/11	S millions	Based on TTC Proposed 2012-2021 Gross Budget - Commission June 8, 2011	TTC 2012-2016 CAPITAL PROGRAM REQUIREMENTS & SOURCES OF FUNDING	
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APPENDIX C	E 2011	2012-2016 CAPITAL PROGRAM STATUS AT JUNE 2011	M-STAT	ROGRA	LAL PE	6 CAPIT	012-201	20

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STAFF SUMMARY SHEET

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PARED BY: Michael Roche		<u></u>	DEPARTMEN	Г HEAD – Michael Roche
ENSION: 3654				ERAL MANAGER -
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NL: michael.roche@ttc.ca				NAGER – Vincent Rodo
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GM - ENG & CONST GM - EXECUTIVE GM - OPERATIONS DEPUTY GM - BUS DEPUTY GM - RAIL GENERAL COUNSEL		NON-CONCUR	Dune 1/11 h re 1/11 June 1/11	COMMISSION REPORT Appendices A, B, C ACTION REQUIRED BY CHIEF GENERAL MANAGEF
GM - ENG & CONST GM - EXECUTIVE GM - OPERATIONS DEPUTY GM - BUS DEPUTY GM - RAIL GENERAL COUNSEL CHIEF FINANCIAL OFFICER		NON-CONCUR	Dune 1/11 h re 1/11 June 1/11	COMMISSION REPORT Appendices A, B, C ACTION REQUIRED BY CHIEF GENERAL MANAGEF
GM - ENG & CONST GM - EXECUTIVE GM - OPERATIONS DEPUTY GM - BUS DEPUTY GM - RAIL GENERAL COUNSEL CHIEF FINANCIAL OFFICER MANAGER - M&P		NON-CONCUR	Dune 1/11 h re 1/11 June 1/11	COMMISSION REPORT Appendices A, B, C ACTION REQUIRED BY CHIEF GENERAL MANAGEF SIGN AGREEMENT RECEIVE FOR INFORMATION APPROVE APPROVE FOR SUBMISSION TO
GM - ENG & CONST GM - EXECUTIVE GM - OPERATIONS DEPUTY GM - BUS DEPUTY GM - RAIL GENERAL COUNSEL CHIEF FINANCIAL OFFICER MANAGER - M&P EXECUTIVE DIRECTOR - HR		NON-CONCUR	Dune 1/11 h re 1/11 June 1/11 May 31/11	COMMISSION REPORT Appendices A, B, C ACTION REQUIRED BY CHIEF GENERAL MANAGEF SIGN AGREEMENT RECEIVE FOR INFORMATION APPROVE
GM - ENG & CONST GM - EXECUTIVE GM - OPERATIONS DEPUTY GM - BUS DEPUTY GM - RAIL GENERAL COUNSEL CHIEF FINANCIAL OFFICER MANAGER - M&P		NON-CONCUR	Dune 1/11 h re 1/11 June 1/11	COMMISSION REPORT Appendices A, B, C ACTION REQUIRED BY CHIEF GENERAL MANAGEF SIGN AGREEMENT RECEIVE FOR INFORMATION APPROVE APPROVE APPROVE FOR SUBMISSION TO COMMISSION
GM - ENG & CONST GM - EXECUTIVE GM - OPERATIONS DEPUTY GM - BUS DEPUTY GM - RAIL GENERAL COUNSEL CHIEF FINANCIAL OFFICER MANAGER - M&P EXECUTIVE DIRECTOR - HR		NON-CONCUR	Dune 1/11 h re 1/11 June 1/11 May 31/11	COMMISSION REPORT Appendices A, B, C ACTION REQUIRED BY CHIEF GENERAL MANAGEF SIGN AGREEMENT RECEIVE FOR INFORMATION APPROVE APPROVE FOR SUBMISSION TO COMMISSION APPROVE FOR SUBMISSION TO CHAIR
GM - ENG & CONST GM - EXECUTIVE GM - OPERATIONS DEPUTY GM - BUS DEPUTY GM - RAIL GENERAL COUNSEL CHIEF FINANCIAL OFFICER MANAGER - M&P EXECUTIVE DIRECTOR - HR DIR COMMUNICATIONS		NON-CONCUR	Dune 1/11 h re 1/11 June 1/11 May 31/11	COMMISSION REPORT Appendices A, B, C ACTION REQUIRED BY CHIEF GENERAL MANAGEF SIGN AGREEMENT RECEIVE FOR INFORMATION APPROVE APPROVE APPROVE FOR SUBMISSION TO COMMISSION