

# STAFF REPORT ACTION REQUIRED

### **Proposed 2018-2027 TTC Capital Budget**

Date:	September 26, 2017
To:	TTC Budget Committee
From:	Chief Executive Officer

### **Summary**

The proposed 2018-2027 Capital Budget and Plan has been prepared consistent with the Commission's Five Year Corporate Plan, with specific focus on the following:

- Effective, efficient management of assets that delivers reliable services in a state of good repair.
- An affordable expansion program that matches capacity to demand.
- A well-run, transparent business that delivers value for money in a financially viable way.

Highlights of the proposed 2018-2027 Capital Budget and Plan include:

- A proposed <u>2018 Capital Budget with \$1.581 billion in cash flow</u> that is <u>fully funded</u> within 2018 affordability limits.
- \$9.240 billion in forecasted overall base capital requirements during the ten year planning period from 2018 to 2027, which is \$2.790 billion greater than the current capital funding capacity.
  - ➤ The proposed 10-Year Plan is currently \$97 million above the City's debt affordability target, subject to further review of additional funding opportunities.
  - ➤ In 2018, the TTC's Unfunded List will require \$2.693 billion in funding to proceed, comprised of capacity- to- spend reductions of \$420 million and unfunded projects totalling \$2.273 billion.
- Continued use of \$557 million (\$279 million Federal share) in remaining funding available as part of the Federal Public Transit Infrastructure Fund (PTIF) program.
  - ➤ Under PTIF, total funding of up to \$1.712 billion gross (\$856 million Federal share) is available to the City of Toronto/TTC for transit upgrades and improvements.
  - ➤ Capital projects commenced after April 1, 2016 and completed by March 31, 2019 may receive up to 50% funding of eligible costs.
- The proposed capital budget includes \$113 million in cash flows for the property acquisition

- required for the New Subway Maintenance and Storages Facility.
- \$200.4 million in proposed 2018 funding for costs related to the completion of construction on the Toronto-York Spadina Subway Extension (TYSSE).
- Proposed funding of \$113.3 million in 2018 and \$3.307 billion from 2019 to 2027 for the construction of the Scarborough Subway Extension (SSE) (including \$101 million for the SRT life extension and \$123 million for SRT Decommissioning and Demolition).
- The proposed 2018 2027 Capital Budget and Plan does not include any increase in funding or estimated final costs for either the TYSSE or SSE projects.

#### Recommendations

It is recommended that the Budget Committee:

- 1. Receive and endorse the proposed 2018-2027 TTC Capital Budget and Plan (including the Toronto-York Spadina Subway Extension and Scarborough Subway Extension) as outlined in this report for submission to the TTC Board for consideration as part of the 2018 Budget Process and that any further changes be submitted directly to the Board.
- 2. Direct the TTC's Chief Financial Officer to consult with the Toronto City Manager and Toronto Deputy City Manager & Chief Financial Officer on the development of a financing strategy to address the remaining unfunded base capital requirements for consideration as part of the 2019 Budget process.

### **Financial Summary**

The following table highlights the 2018 to 2027 TTC Capital Budget and Plan funding Summary:

		2018	- 2027 Ca	pital Budge	et and Plan	Request					
(\$Millions)	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	10-Year Total
2018 - 2027 Proposed Capital Plan Request	1,581	1,157	1,140	938	963	715	623	744	741	638	9,240
Funding Sources											
Provincial Funding	165	138	149	75	75	75	75	75	75	75	979
Federal Funding (Including PTIF)	390	224	167	167	167	167	167	167	167	167	1,953
Debt Funding	596	491	420	235	65	105	78	84	126	200	2,400
2017 Carry Forward Funding	184										184
Capital Financing Reserve	70	157	38								264
TTC Internal (Depreciation)	29	18	12	13	10	12	9	11	19	18	152
Development Charges	131	63	64	63	63	41	27	28	7	10	499
TTC Other	4	2	2	2	2	2	2	2	2	2	19
Total Funding Sources	1,570	1,093	851	556	382	402	359	367	397	473	6,450
Funding Shortfall	11	65	289	382	581	313	265	376	344	165	2,790
Reductions to address shortfall:											
Capacity to Spend (CTS) Reduction	26	30	43	49	46	43	41	43	48	50	420
Existing Unfunded Projects	50	0	227	182	294	279	228	348	329	225	2,161
Unfunded Projects - New BD Resignalling	0				18	17	18	19	19	20	112
Total CTS Reductions and Unfunded Projects	76	30	270	231	358	339	288	410	396	296	2,693
Final Net Funding Shortfall	-64	35	18	151	224	-26	-23	-33	-53	-132	97

As reflected in the above table, the TTC's base capital needs require \$9.240 billion in funding over the ten year planning period.

Traditional sources will fund \$6.450 billion in capital expenditures over the 10-Year Plan, resulting in a funding shortfall of \$2.790 billion. This funding shortfall is comprised of the following:

- \$420 million in reductions to align annual cash flows with the TTC's historical capacity to spend.
- \$2.273 billion in unfunded capital projects reflecting base capital requirements that will need to be addressed in future Budget processes. Unfunded projects are detailed in Appendix C of this report.
- \$97 million in a remaining funding shortfall that is not included in the list of unfunded projects. This reflects a portion of the costs associated with the property acquisition for the New Subway Maintenance & Storage Facility that could not be accommodated within current available funding.
  - > TTC staff are continuing to work with City Finance staff to identify additional funding capacity to support this capital need. Opportunities currently being reviewed include:
    - ✓ Reduce 2018 cash flows based on any additional 2017 carry forward funding above current projections.
    - ✓ Maximize development charge funding based on project eligibility and funding availability.
    - ✓ Application of recoverable debt provided the capital investment will yield future operating savings that can support debt servicing costs.
    - ✓ Review of added City funding capacity (Capital Financing Reserve and/or Debt)
- These above figures do not include additional funding required for a confidential claim provision on an existing project. Provisional funding requirements are currently being discussed with City staff.

In addition to the Base Program, approximately \$0.2 billion will be required over this period for final costs arising from completion of the Toronto-York Spadina Subway Extension. Also, approximately \$3.4 billion is required over the next ten years for the Scarborough Subway Extension project.

The Chief Financial Officer has reviewed this report and agrees with the financial impact information.

#### **DISCUSSION**

As reflected in Exhibit 1 on the following page, ten year capital funding requirements for capital refurbishment, replacement and enhancement needs to maintain the system in a state-of-good-

repair have been relatively consistent over the last four years.

Aside from an increase in PTIF funding during the 2017 Budget process, there has not been a significant change in available funding over that period. As a result, there have been no advancements on the list of unfunded projects.

A long term funding strategy needs to be developed with the City by 2020 to avoid potential service impact associated with not proceeding with these required capital investments.

Exhibit 1

10 - Year Capital Budget Comparison  Base Program  (\$Billions)												
	2015 - 2024 <u>Approved</u>	2016 - 2025 Approved	2017 - 2026 <u>Approved</u>	2018 - 2027 <u>Request</u>								
Budget/Request	9.268	9.316	9.440	9.240 ***								
Funding Available	<u>6.901</u>	6.637	<u>7.005</u>	<u>6.450</u>								
Shortfall	<u>2.367</u>	<u>2.679</u>	2.435 *	<u>2.790</u> **								

#### Note:

Traditional funding sources incorporated into the 10-Year Capital Budget and Plan for the TTC is summarized in Appendix B, with a comparison against the TTC's base capital needs that are required to keep the existing system in a state-of-good-repair.

Appendix C provides a preliminary list of remaining unfunded projects totaling \$2.693 billion.

#### **Accessibility/Equity Matters**

Under this 10-Year Capital Program, all required capital expenditures needed to make the TTC fully compliant with AODA requirements and to meet all of the TTC equity goals have been fully provided for with the exception of investments in Warden and Islington Stations. These two stations will be considered as part of future budget processes once capital requirements are fully defined.

<sup>\*</sup> After applying the capacity to spend reduction of \$482M the net shortfall is \$1.954B

<sup>\*\*</sup> After applying the capacity to spend reduction of \$420M the net shortfall is \$2.370B

<sup>\*\*\*</sup> Does not include additional confidential claim on existing project

#### 2018-2027 CAPITAL BUDGET AND PLAN

The cash flow for each program or project element included in the proposed 2018-2027 Base Capital Budget and Plan is summarized in Appendix A (note: Expansion Initiatives, including the Toronto-York Spadina Subway Extension and the Scarborough Subway Extension, are not included in the base capital program).

Key elements of the \$1.581 billion (gross request) in the base capital budget for 2018 are shown below in Exhibit 2.

Exhibit 2

TTC 2018 BASE CAPITAL BUD		a:11: \		
Waltisland	<u>(\$1</u> )	<u>/lillions)</u>		
Vehicles:		212		
Purchase of Low Floor 40' Diesel Buses - SOGR		212		
Purchase of 99 LF 40' Diesel Buses - Service Improvements		17		
Purchase of 360 Future Wheel Trans Buses		10	4	
Purchase of remaining TR Subway Cars		27	<b>\$732</b>	
Purchase of 204 (\$285M) & 60 (\$50M) LRV Cars		335		
Vehicle Overhaul Programs (Bus, WT, Subway, Streetcar)		104		
Other (Non-Revenue Vehicle Purchase & Overhaul)		27		
Infrastructure Projects:				
Track Programs		79		
Electrical Systems		63		
Signal Systems (Incl. Line 1 (YUS \$65M) and Line 2 (BD \$0.2M))		84		
Finishes		20		
Equipment		25		
Yards & Roads		13		
Bridges & Tunnels		34		
Building & Structures:				
- New Subway Maintenance & Storage Facility	120			
- Fire Ventilation Upgrade	16			
- Easier Access Phase III	45	ļ	\$849	
- TR/T1 Rail Yard Accommodation	34			
- Surface Way Bldg. Replacement	19			
- McNicoll Bus Garage	30			
- Leslie Barns	17			
- Wheel-Trans 10 Yr Transformation Program	11			
- Duncan Shop Ventilation Upgrade	10			
- Stations Transformation	11			
- Other Building & Structure Projects	<u>49</u>	362		
Environmental Projects		8		
Information Technology		105		
Other Projects		56		

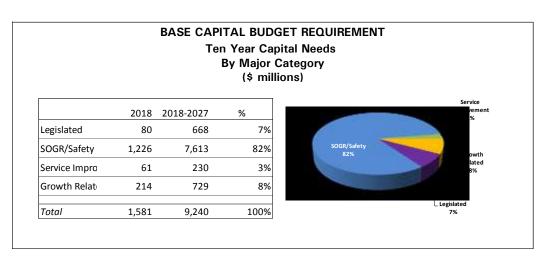
Nearly half (\$732 million or 46%) of the 2018 Capital Budget will fund vehicles or vehicle overhaul programs which will result in increased operating efficiencies through greater vehicle

reliability and reduced fuel consumption.

In 2018, \$849 million in funding will invest in maintaining infrastructure in a state of good repair as well as support TTC growth initiatives such as the McNicoll Bus Garage and the property acquisition for the New Subway Maintenance & Storage Facility.

Expenditures for the next 10 years from 2018 to 2027 for the base capital program are in the order of \$9,240 billion as shown in Exhibit 3.

Exhibit 3



As noted above, over \$8.3 billion or about 90% of the base capital budget for the ten years is committed to State-of-Good-Repair/Safety and Legislated projects. This represents what is needed to keep the Commission's capital assets in good repair and provides for the orderly replacement of assets at the end of their useful life. Key elements of the base capital program over the next ten years include:

#### Vehicle acquisitions (\$4.171B):

- ✓ Purchase of 372 T1 Subway Car Replacements (\$1,416 million)
- ✓ Purchase of Low Floor Buses (\$805 million)
- ✓ Vehicle Overhaul Programs: Bus, Subway and Streetcar (\$796 million)
- ✓ 204 LRVs (\$502 million)
- ✓ 60 LRVs to address ridership growth (\$361 million)
- ✓ 360 Future Wheel Trans Buses (\$81 million)
- ✓ Purchase of Subway Cars Ridership Growth for YUS & BD (\$74 million)
- ✓ Balance of the 360 Toronto Rocket Subway car order (\$22 million)
- ✓ Other Projects (\$114 million)

#### Building and Infrastructure Projects (\$5.069B):

- ✓ Track replacement (\$751 million)
- ✓ Easier Access Phase III (\$473 million)

- ✓ Electrical Systems Programs (\$433 million)
- ✓ Various bridge and tunnel infrastructure rehabilitation (\$421 million)
- ✓ Roofing rehabilitation and structural paving programs (\$340 million)
- ✓ Upgrades to information technology assets (\$324 million)
- ✓ Installation of automatic train control and re-signalling on the Line 2 (BD subway line) (\$300 million)
- ✓ TR/T1 Rail Yard Accommodation (\$277 million)
- ✓ Upgrading of fire ventilation equipment and second exits in the subway (\$274 million)
- ✓ Purchase of Equipment (\$220 million)
- ✓ Installation of automatic train control and re-signalling on the Line 1 (YUS subway line) (\$180 million)
- ✓ McNicoll Bus Garage (\$157 million)
- ✓ Streetcar overhead system rebuild (\$56 million)
- ✓ Streetcar network upgrades for new LRVs (\$33 million)
- ✓ TTC Presto and fare and revenue collection and infrastructure needs (\$21 million)
- ✓ Other projects (\$8 million)

Management continues to refine project details and cash flows and these will be reflected in the final 2018-2027 Capital Budget and Plan to be brought forward to the Board during consideration of the 10-Year Capital Budget and Plan.

In addition to the base capital budget:

- The Toronto-York Spadina Subway Extension (TYSSE) is projected to incur additional \$200 million in expenditures in 2018 and the new line is scheduled to open for revenue service on December 17, 2017.
- The Scarborough Subway Extension (SSE) project is currently estimated to require \$3.420 billion in funding over the next ten years. This project will extend the Bloor-Danforth subway line approximately 7.6 kilometres from Kennedy Station to Sheppard Avenue and McCowan Road. The 10-Year funding requirements include \$101 million to extend the life of the SRT until the SSE commences operation and a further \$123 million to decommission and demolish the SRT.

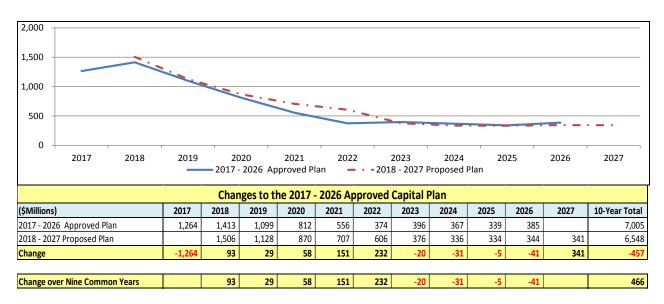
#### CHANGES FROM THE COUNCIL APPROVED 2017 – 2026 CAPITAL PLAN

Exhibit 4 shows the changes requested in the base Capital Budget and Plan (excluding capacity to spend reductions and unfunded projects) from that approved by City of Toronto Council on February 15, 2017.

The 2018 – 2027 Proposed Capital Budget and Plan reflects a decrease of \$457 million in capital funding from the 2017 - 2026 Approved Capital Plan.

The chart and table below provide a breakdown of the \$457 million or 6.5% decrease in the Capital Program on an annual basis from 2017 to 2027.

#### Exhibit 4



The \$457 million decrease in the Capital Program is primarily attributed to the significant difference in funding between the year 2017 with a cash flow of \$1.264 billion and the year 2027 with a proposed cash flow of \$341 million.

This change in funding is not reflective of a decreased capital need but rather the product of:

- a) Increased cash flow of \$615 million for PTIF funded projects in 2017 that does not continue into future years.
- b) Reduced 2027 cash flow as a result of \$296 million of identified capital needs currently unfunded.

#### Changes over the Nine Common Years (2018 – 2026)

While overall funding has decreased as compared to the 2017 10-Year Plan, funding over the nine years common to both plans (2018 to 2026) has increased by \$466 million.

• This increase in funding is attributed to a combination of \$194 million in unspent 2017 funding carried forward into 2018 and \$270 million in increased funding for existing

capital requirements; net of capacity to spend reductions and unfunded projects (\$2.693 billion). See Exhibit 5 below.

#### Exhibit 5

2018-2027 Capital Budget - Key Proje For TTC Budget Committee on (\$Millions)	• •	
	Net Ir	ncrease/(Decrease)
/ehicle Related Programs:		
Purchase of Buses		-9.3
Purchase of WT Buses		-44.6
Purchase of Subway Cars		171.5
Bus Overhaul		-8.0
Streetcar Overhaul		35.3
Subway Car Overhaul		17.3
Other Vehicle Projects		-4.9
Sub-Total Vehicle Related Programs		<u>157.4</u>
nfrastructure Related Programs:		
Subway Track		-9.5
Surface Track		21.3
Traction Power		35.4
Power Distribution		6.6
Communications		5.4
Signal System (Incl ATC)		-93.5
Finishes		6.6
Yards & Roads		7.3
Bridges & Tunnels		12.3
Fire Ventilation		26.7
TR/T1 Rail Yard Accommodation		-6.8
Other Buildings & Structures		107.3
Major projects included are:		
<ul> <li>New Subway Maint. &amp; Storage Facility</li> </ul>	113.0	
<ul> <li>Retrofit of Carhouse Facility and Shop</li> </ul>	6.8	
- Bus Maintenance Facility	4.0	
- Backflow Preventors	-4.4	
- Revenue Operations Facility	-24.8	
Shop Equipment		6.6
Revenue and Fare Handling		11.8
Other Maintenance Equipment		-2.4
Fare System		3.3
Environmental Program		2.9
Information Technology		-20.1
Sub-Total Infrastructure Related Programs		<u>121.3</u>
Sub Total - Key Project Changes		278.7
Other Projects		-8.3
Total Changes to Existing		270.4

- At the time of writing, the 2017 Budget is estimated to be under-spent by \$194 million. These funds will be carried forward to 2018 in order to continue work on previously approved capital projects. Key projects included in \$194 million are:
  - ✓ Purchase of 204 LRVs (\$31 million)
  - ✓ Purchase of Subway Cars (\$23 million)
  - ✓ Leslie Barns (\$18 million)
  - ✓ Platform Modification to Accommodate Artic Buses (\$14 million)
  - ✓ Vision Program (\$13 million)
  - ✓ Opportunities to Improve Transit Service (\$13 million)

✓ Other projects (\$82 million)

#### **UNFUNDED TTC CAPITAL PROJECTS**

The 2018-2026 Capital Budget and Plan of \$9.240 billion requires additional funding of \$2.790 billion over the established funding available, resulting in \$2.693 billion in projects to be considered unfunded until funding can be secured.

• \$97 million is currently reflected as above the City's debt affordability target pending further reviews that are occurring to identify increased funding capacity.

The TTC's \$2.693 billion in unfunded projects are detailed below in Exhibit 6:

Exhibit 6 2018-2027 Unfunded Projects

Unfunded Projects													
(\$Millions)	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	10-Year Total		
Capacity to Spend (CTS) Reduction (Various Projects)	26	30	43	49	46	43	41	43	48	50	420		
ATC Resignalling (Line 2)					18	17	18	19	19	20	112		
Fire Ventilation Upgrades				2	50	47	29	21	13	0	162		
Purchase of Buses			5	90	94	60	29	8	26	11	323		
Purchase of 372 New Subway Cars					149	172	170	319	290	144	1,245		
Ridership Growth for YUS and BD										70	70		
Purchase of Streetcars	50		222	89							361		
Total CTS Reduction and Unfunded Projects	76	30	270	231	358	339	288	410	396	296	2,693		

The unfunded list is comprised of \$2.273 billion in unfunded programs/projects and \$420 million in capacity to spend reductions.

- Capacity to spend reductions do not reflect a decrease in capital need but rather a reduction to ensure cash flows for capital projects (exclusive of buses) are aligned with the TTC's capacity to spend/deliver on each project on an annual basis.
- Capacity to spend reductions are consistent with Council budget directions that require:
  - Annual cash flow funding estimates be examined to more realistically match cash flow spending to project activities and timing, especially in the first 5 years of the Capital Plan's timeframe
- The 2017 to 2026 Capital Budget included reductions of 15% for the years 2017 to 2020 and 10% for the years 2021 to 2026 as a result of capacity to spend analysis.
- During the 2018 to 2027 Capital Budget process, a detailed analysis was undertaken and capacity-to-spend reductions were applied based on project performance and prior year spending rates, resulting in the following cash flow changes:

#### Capacity to Spend Reductions (\$420 M)

- ➤ Track Replacements Programs (\$88 million)
- ➤ Electrical Systems Programs (\$69 million)
- ➤ Buildings & Structures Programs (\$135 million)
- ➤ Bus Overhaul (\$63 million)
- ➤ Automotive/Rail Non-Revenue Programs (\$11 million)

- > Tools, Machinery and Equipment (\$17 million)
- ➤ Information Technology System (\$26 million)
- > Transit Priority Project (\$7 million)
- > Environmental Programs (\$4 million)

It is recommended that TTC staff continue to consult with City staff on the development of a financing strategy to address the remaining \$2.693 billion in unfunded base capital requirements for consideration as part of the 2019 Budget process to avoid potential service impact associated with not proceeding with required unfunded capital investments.

#### **DEFFERED CONSIDERATION OF NEW CAPITAL PROJECTS**

In addition to \$2.693 billion in unfunded capital priority projects, consideration of new capital requirements of \$1.050 billion and scope change to existing projects of \$128 million has been deferred until funding can be secured for the following projects:

#### New Capital Budget Requirements (\$1.050 billion):

- ➤ Purchase of 549 Low Floor Buses (\$612 million)
- Facility Upgrade & Fuelling Station (\$97 million)
- ➤ Davenport Garage Renewal (\$93 million)
- ➤ Warden Redevelopment (\$71 million)
- > Greenwood Shop End of Life Replacement (\$52 million)
- ➤ New Bus Technologies (\$25 million)
- ➤ EAM Implementation Program (\$23 million)
- ➤ Subway Bus Platform Ventilation Equipment Replacement (\$20 million)
- > Purchase of 60 Future Wheel-Trans Buses (\$18 million)
- ➤ Station Tactile Wayfinding Upgrade (\$15 million)
- ➤ Welding Ventilation Upgrades at all Garages (\$8 million)
- ➤ SharePoint SOGR (\$5 million)
- ➤ Hillcrest Track Replacement Expansion (\$4 million)
- ➤ Enterprise Data SOGR (\$2 million)
- ➤ Other Initiatives (\$5 million)

#### Scope Change to Existing Projects (\$128 million):

- Fire Ventilation Upgrade (\$60 million)
- Escalator Replacement Program (\$22 million)
- ➤ LRV Carhouse Facility Renewal Program (\$15 million)
- Subway Station Fire Alarm Modification (\$7 million)
- > Skylights Replacement Project (\$6 million)
- ➤ Yonge Bloor Capacity Improvements (\$4 million)
- > Station Finish Renewal Program (\$3 million)
- ➤ Elevator Overhaul (\$3 million)
- ➤ Building Facility Renewal Program (\$2 million)

- ➤ Bus Garage/Shops Facility Renewal Program (\$2 million)
- ➤ Wheel Trans Facility Renewal Program (\$1 million)
- ➤ Replacement Lighting for Buildings/Garages/Shops/Carhouses (\$1 million)
- ➤ Subway Pump Replacement Program (\$1 million)
- ➤ Industrial Facility Requirements (\$1 million)

#### Contact

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#### **Attachments**

Appendix A - 2018-2027 Capital Program Summary Appendix B - 2018-2027 Capital Program Funding Summary Appendix C - 2018-2027 Proposed Unfunded Projects

## TORONTO TRANSIT COMMISSION 2018-2027 CAPITAL BUDGET SUMMARY

Appendix A

				\$Millions							
Programs	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2018 to 2027
Infrastructure Related Programs:											
Tracks:	79,175	72,773	73,096	88,772	69,126	70,548	66,878	71,648	78,576	80,147	750,73
1.1 Subway Track	38,671	34,885	42,771	51,858	37,488	38,118	38,855	39,592	40,269	41,074	403,58
1.2 Surface Track	40,504	37,888	30,325	36,914	31,638	32,430	28,023	32,056	38,307	39,073	347,158
Signals, Electrical, Communications:	146,981	132,638	111,263	84,323	71,907	82,918	84,626	85,921	93,375	103,748	997,700
2.1 Traction Power	23,159	21,830	20,910	18,744	18,525	19,445	20,654	21,514	22,924	27,224	214,929
2.2 Power Distribution	8,477	7,703	12,172	7,511	7,925	7,118	7,068	7,086	7,977	8,501	81,538
2.3 Communications	31,211	15,518	14,070	14,369	10,123	10,002	7,725	7,983	11,002	14,083	136,086
2.4 Signal Systems	18,760	16,277	15,291	14,691	4,494	4,071	3,913	2,577	2,724	2,705	85,503
2.4 YUS/BD Resignalling	65,374	71,310	48,820	29,008	30,840	42,282	45,266	46,761	48,748	51,235	479,644
Buildings and Structures:	455,016	404,832	444,969	402,817	298,272	217,692	174,471	150,595	109,832	102,115	2,760,611
3.1 Finishes	20,203	21,083	14,744	18,955	24,979	12,653	8,841	7,652	9,325	8,063	146,498
3.2 Equipment	25,169	28,965	37,283	29,080	17,141	16,438	14,032	13,486	13,128	25,310	220,032
3.3 Yards & Roads	13,131	20,199	29,595	29,213	19,714	12,794	12,404	12,572	13,147	13,006	175,775
3.4 Bridges & Tunnels	34,158	38,395	39,515	40,064	40,567	43,188	43,784	46,439	47,128	47,832	421,070
3.9 Fire Ventilation Upgrade	15,760	18,110	33,221	47,037	50,191	46,840	29,129	20,897	13,140	-	274,325
3.9 Easier Access Phase III	44,824	56,114	62,164	71,822	71,263	66,151	54,960	39,637	6,000	-	472,935
3.9 Leslie Barns	16,829	7,048	-	-	-	-	-	-	-	-	23,877
3.9 Toronto Rocket Yard & Storage Track Accommodation	33,851	49,480	75,497	69,273	43,890	4,425	125	-	-	-	276,541
3.9 McNicoll Bus Garage	30,000	45,000	52,974	28,807	-	-	-	-			156,781
3.9 Other Buildings & Structures	221,091	120,438	99,976	68,566	30,527	15,203	11,196	9,912	7,964	7,904	592,777
Tooling, Machinery and Equipment	30,170	9,210	4,314	8,199	4,043	3,383	3,445	3,529	3,757	4,027	74,077
5.1 Shop Equipment	7,015	4,300	2,936	6,820	2,605	2,000	2,010	1,947	2,151	2,385	34,169
5.2 Revenue & Fare Handling Equipment	12,457	175	250	250	250	250	300	300	300	300	14,832
5.3 Other Maintenance Equipment	5,005	4,610	1,128	1,129	1,188	1,133	1,135	1,282	1,306	1,342	19,258
5.4 Fare System	5,693	125	-		-	-			-	-	5,818
Environmental Issues	8,178	9,417	<i>8,377</i>	10,741	4,590	4,195	4,000	4,100	4,200	4,300	62,098
6.1 Environmental Program	8,178	9,417	8,377	10,741	4,590	4,195	4,000	4,100	4,200	4,300	62,098
Computer Equipment & Software	104,939	54,564	<i>42,395</i>	12,303	9,448	14,783	11,219	13,508	31,180	<i>30,056</i>	324,395
7.1 & 7.2 IT Systems/Infrastructure	104,939	54,564	42,395	12,303	9,448	14,783	11,219	13,508	31,180	30,056	324,395
Other:	<b>25,053</b>	<b>26,719</b> 262	<b>23,602</b> 683	<b>8,710</b> 425	3,362	<b>2,527</b> 492	<b>2,270</b> 235	<b>2,543</b> 508	<b>2,296</b>	2,284	99,366
9.1 Furniture & Office Equipment	360 24,693	26,457	22,919	8,285	237 3,125	2,035	2,035	2,035	261 2,035	249 2,035	3,712 95,654
9.2 Service Planning  Subtotal - Infrastructure Related Programs	849,512	710,153	708,016	615,865	3,125 460,748	396,046	346,909	331,844	323,216	326,677	5,068,986
Vehicle Related Programs:	649,512	/10,155	708,016	013,803	460,746	390,040	346,909	331,044	323,210	320,077	5,068,980
·	220 005	444.027	115.000	126 767	105.074	60.420	20.400	7.660	25 244	44 274	006 242
4.11 Purchase of Buses	239,805	144,927	115,886	136,767	105,974	69,420	29,180	7,668	25,344	11,271	886,242
4.12 Purchase of Subway Cars	26,949	524	584	1,523	317,612	171,722	170,147	319,361	290,246	214,063	1,512,731
4.13 Bus Overhaul 4.15 Streetcar Overhaul	45,885 12,473	39,869	38,564 1,866	49,315 1,704	49,896 617	50,505 3,424	50,402 5,019	51,015 12,647	58,043	55,296 18,602	488,790
4.16 Subway Car Overhaul	45,560	2,864 30,057	1,866 22,133	24,913	617 19,103	3,424 18,142	19,058	12,647 18,390	24,224 17,153	18,602 9,015	83,440 223,524
4.18 Purchase of Streetcars	334,543	204,553	22,133	24,913 89,244	13,103	10,142	19,038	10,390	17,155	9,015	862,516
4.18 Purchase of Streetcars  4.21 Purchase Non Revenue Vehicles	6,187	4,200	3,611	3,100	3,300	3,400	2,100	2,100	2,100	2,100	32,198
4.22 Rail Non-Revenue Vehicle Overhauls	4,485	3,330	3,417	5,585	1,328	523	534	550	355	590	20,697
4.23 Purchase Rail Non-Revenue Vehicle	15,993	16,834	11,692	9,543	4,830	1,992	-	-	-	390	60,884
Subtotal - Vehicle Related Programs	731,880	447,158	431,929	321,694	502,660	319,128	276,440	411,731	417,465	310,937	4,171,022
	•	•			•			•		•	
BASE PROGRAM - TOTAL	1,581,392	1,157,311	1,139,945	937,559	963,408	715,174	623,349	743,575	740,681	637,614	9,240,008 -
Toronto York Spadina Subway Extension (TYSSE)	200,394			-	-	-	-	-	-	-	200,394
Scarborough Subway Extension (SSE)	113,251	119,768	179,602	252,844	471,830	1,022,350	633,625	301,910	140,900	183,670	3,419,750
TOTAL - BASE, TYSSE & SSE Programs	1,895,037	1,277,079	1,319,547	1,190,403	1,435,238	1,737,524	1,256,974	1,045,485	881,581	821,284	12,860,152

# 2018-2027 Capital Budget Funding Summary \* For TTC BC Meeting - September 26, 2017 \$Millions

Appendix B

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Total
2017 to 2026 Council Approved Budget	1,413	1,099	812	556	374	396	367	339	385	2021	5,741
-	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
Carry Forward Change to Existing Projects	194 -26	58	328	381	589	319	257	405	356	638	194 3,305
New Projects	23	44	68	62	116	101	151	242	146	97	1,050
•											
Net Change to 2018 to 2027 CB (from 2017 to 2026 CB)	191	102	396	444	705	419	408	647	501	735	4,549
2018-2027 Proposed Budget Request (Gross Ask)	1,605	1,201	1,208	1,000	1,079	816	775	986	886	735	10,290
Funding Sources											
Provincial Gas Tax	75	75	75	75	75	75	75	75	75	75	752
Canada Strategic Infrastructure Fund (CSIF) - Interest			16								16
Capital Reserve (Metrolinx)			58								58
204 LRV Funding	90	63									153
Total Provincial Funding	165	138	149	75	75	75	75	75	75	75	979
Base Federal Gas Tax - 5 cent (population) Canada Strategic Infrastructure Fund (CSIF)	167	167	167	167	167	167	167	167	167	167	1,674 0
Public Transit Infrastructure Fund (PTIF) - Fed 50% **	222	56									279
Total Federal Funding	390	224	167	167	167	167	167	167	167	167	1,953
TTC Internal (depreciation)	29	18	12	13	10	12	9	11	19	18	152
Other Funding (LRV LDs)	2										2
Other Reserves / Funding Partners	2	2	2	2	2	2	2	2	2	2	18
Development Charges	131	63	64	63	63	41	27	28	7	10	499
Total Other Funding	164	83	78	79	74	55	38	40	28	30	670
City Debt Request (including City PTIF)	596	491	420	235	65	105	78	84	126	200	2,400
City Carryforward - Deferred Debt Issued Other Funding (LRV LDs)	184										184 0
City Funding - Reserve Funds (Capital Financing Strategy)	70	157	38								264
Total City / Other Funding	1,015	731	535	313	139	160	116	125	154	230	3,518
Total Funding	1,570	1,093	851	556	382	402	359	367	397	473	6,450
Funding Shortfall/(Surplus)	35	109	357	444	697	413	416	619	490	262	3,840
Capacity to Spend Reduction - Appendix C	26	30	43	49	46	43	41	43	48	50	420
Existing Unfunded Projects - Appendix C	50	0	227	182	294	279	228	348	329	225	2,161
Unfunded Projects - New BD Line	30	O	/	102	18	17	18	19	19	20	112
Net Funding Shortfall/(Surplus)	-41	79	87	213	339	75	128	209	93	-35	1,147
New Projects	23	44	68	62	116	101	151	242	146	97	1,050
Net Funding Shortfall/(Surplus)	-64	35	18	151	224	-26	-23	-33	-53	- <b>132</b>	97

<sup>\*</sup>This funding summary is undergoing review with City staff and is subject to change

# 2018 to 2027 Capital Budget Proposed Capacity-to-Spend Reductions and Unfunded Capital Projects (\$000's)

Appendix C

	Proposed Reductions												
									1			2017 to	Variance
Project Description	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2018 to 2027	2026	(Dec.)/Inc.
Capacity to Spend Reduction Projects													
Subway Track	-	-	6,401	7,779	5,623	5,718	5,828	5,939	6,040	6,161	49,489	50,662	(1,173)
Surface Track	-	-	3,743	4,306	4,746	4,865	4,203	4,808	5,746	5,861	38,278	49,582	(11,304)
Traction power	2,115	2,823	2,817	2,812	2,779	2,917	3,098	3,227	3,439	4,084	30,110	27,972	2,138
Power Dist./Electric Systems	1,110	953	957	968	980	1,068	1,060	1,063	1,197	1,275	10,630	10,801	(171)
Communications	3,827	1,799	2,021	2,200	2,046	2,033	1,887	1,996	2,381	2,959	23,148	11,908	11,240
Signal Systems	626	533	469	537	485	489	501	515	545	541	5,242	4,422	820
ATC Resignalling (Line 2 - BD)											-	43,304	(43,304)
Finishes	-	-	2,137	2,798	3,702	1,898	1,326	1,148	1,399	1,209	15,617	20,986	(5,369)
Equipment	914	1,387	1,925	1,893	1,629	2,028	2,003	2,023	1,849	2,897	18,548	19,298	(750)
On-Grade Paving Rehabilitation	-	-	2,204	3,093	2,927	1,875	1,827	1,854	1,882	1,910	17,573	22,149	(4,576)
Transit Shelters & Loops	51	70	70	56	40	59	45	42	53	54	540	465	75
Bridges and Tunnels	3,703	5,226	5,927	6,010	6,085	6,478	6,568	6,966	7,069	7,175	61,207	63,249	(2,042)
Fire Ventilation Upgrade											-	23,652	(23,652)
Other Bldgs & Structures Projects	1,743	3,435	4,166	3,572	3,463	1,268	1,157	1,063	778	831	21,474	33,099	(11,625)
Replacement of Wheel-Trans Vehicles	-	-	-	-	-	-	-	-	-	-	-	10,185	(10,185)
Bus Overhaul	-	4,006	5,333	7,153	7,292	7,410	7,530	7,652	8,706	8,294	63,376	62,524	852
Automotive Non-Revenue Vehicles	1,856	1,260	1,083	930	990	1,020	630	630	630	630	9,659	5,175	4,484
Rail Non-Revenue Vehicle Overhaul	70	55	198	200	128	131	134	138	89	148	1,290	814	476
Tools and Shop Equipment	2,105	1,290	881	2,046	782	600	603	584	645	716	10,251	4,203	6,048
Other Maintenance Equipment	1,752	1,614	395	395	416	397	397	449	457	470	6,740	3,518	3,222
Environmental Programs	340	350	360	370	380	390	400	410	420	430	3,850	6,295	(2,445)
Information Technology System	4,148	2,277	1,617	1,644	1,417	2,217	1,683	2,026	4,677	4,508	26,216	2,354	23,862
Furniture & Office Equipment	72	52	137	85	47	98	47	102	52	50	742	683	59
Transit Priorities Project	1,724	2,564	275	275	275	275	275	275	275	275	6,488	4,231	2,257
Sub-Total Capacity-to-Spend Reductions	26,155	29,694	43,113	49,122	46,233	43,233	41,202	42,909	48,329	50,477	420,467	481,531	(61,064)
	1												
<u>Unfunded Projects</u>													
ATC Resignalling (Line 2 - BD)	-	-	-	-	17,898	16,913	18,106	18,704	19,499	20,494	111,614		111,614
Fire Ventilation Upgrade	-	-	-	1,945	50,191	46,840	29,129	20,897	13,140	-	162,142	162,742	(600)
Purchase of Buses	-	-	5,100	90,356	94,348	60,120	29,180	7,668	25,344	11,271	323,387	244,576	78,811
Purchase 372 New Subway Cars	-	-	-	-	149,000	171,722	170,147	319,361	290,246	144,279	1,244,755	1,185,221	59,534
Ridership Growth for YUS and BD	-	-	-	-	-	-	-	-	-	69,784	69,784		69,784
Purchase of Streetcars	49,582	-	222,059	89,244	-	-	-	-	-	-	360,885	360,885	-
Sub- Unfunded Projects	49,582	-	227,159	181,545	311,437	295,595	246,562	366,630	348,229	245,828	2,272,567	1,953,424	319,143
Total Cap. To Spend Reductions & Unfunded Projects	75,737	29,694	270,272	230,667	357,670	338,828	287,764	409,539	396,558	296,305	2,693,034	2,434,955	258,079