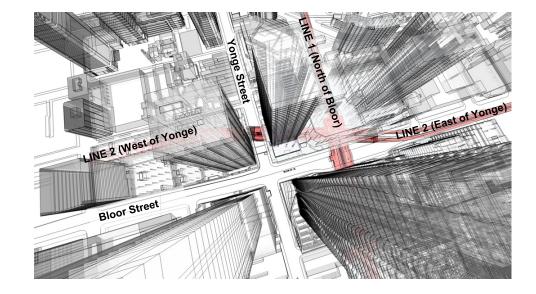


Bloor-Yonge Capacity Improvements

Project Update

October 22, 2020



Background – Bloor-Yonge Station



- Busiest station in the TTC network more than 200,000 passengers each day
- Station functionality is a key factor achieving sufficient train and passenger throughput
- Projected future ridership, along with transit expansion projects and other initiatives, introduce serious risks to continued safe, reliable, and effective Line 1 and Line 2 service

Background – Bloor-Yonge Station



- Capacity and circulation improvements are required to safely accommodate future passenger demands
- ATC implementation and Ontario Line will somewhat reduce congestion
- Improvements must be completed prior to opening of the Line 1 Yonge Extension
- Improvements are consistent with other TTC and Provincial plans

Station Modelling Results

Bloor-Yonge Station	Transit Expansion Network Assumptions	2015	2021	2031	2041	2056
	Existing					
vements	Relief Line South (Pape- Downtown)					
No Station Improvements	Relief Line South + Line 1 Yonge Extension					
No Stati	Ontario Line (Eglinton- Downtown)					
	Ontario Line + Line 1 Yonge Extension					
nents	Existing					
Improven	Relief Line South					
With Capacity Improvements	Relief Line South + Line 1 Yonge Extension					
With	Ontario Line + Line 1 Yonge Extension					



Project Objective

Increase the capacity of Bloor-Yonge subway station to support the projected growth and the planned transit expansion projects as well as the expected higher density in the area.

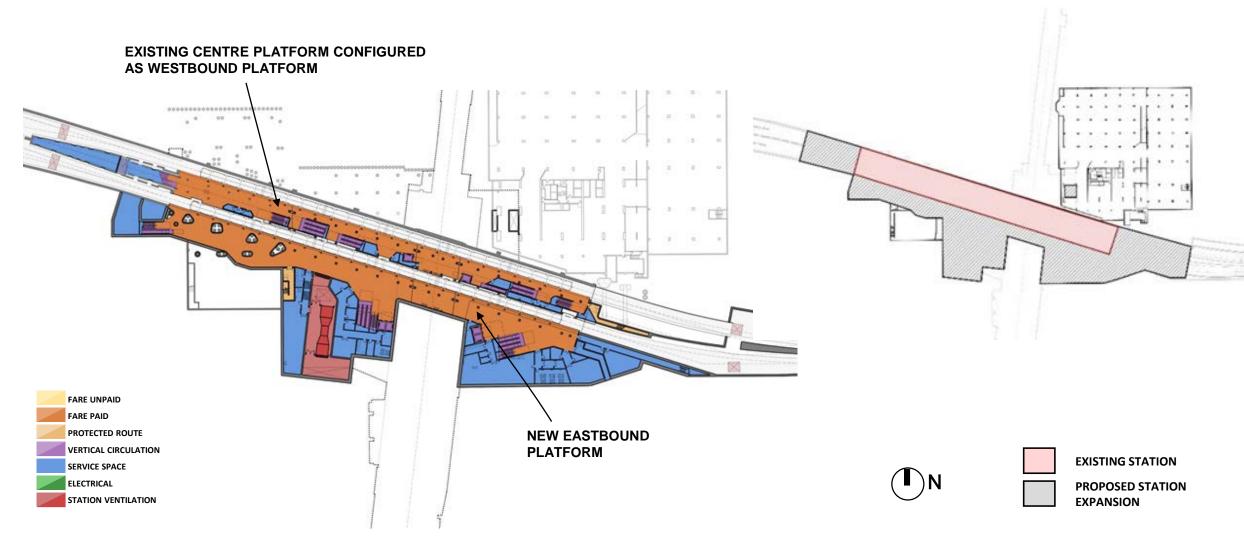
Current conditions to be addressed:

- 1. Line 2 overcrowding of the platform due to substandard platform width and congested vertical circulation in the AM and PM peak hour.
- 2. Line 1 overcrowding of the platforms due to poor passenger distribution leading to congestion and queuing at vertical circulation in the AM and PM peak hour.
- 3. Overcrowding of Lines 1 and 2 platforms AM and PM peak hour hampering alighting and boarding leading to increase in dwell time for trains.
- 4. Current deficiencies in station performance extends recovery time from a missed headway.

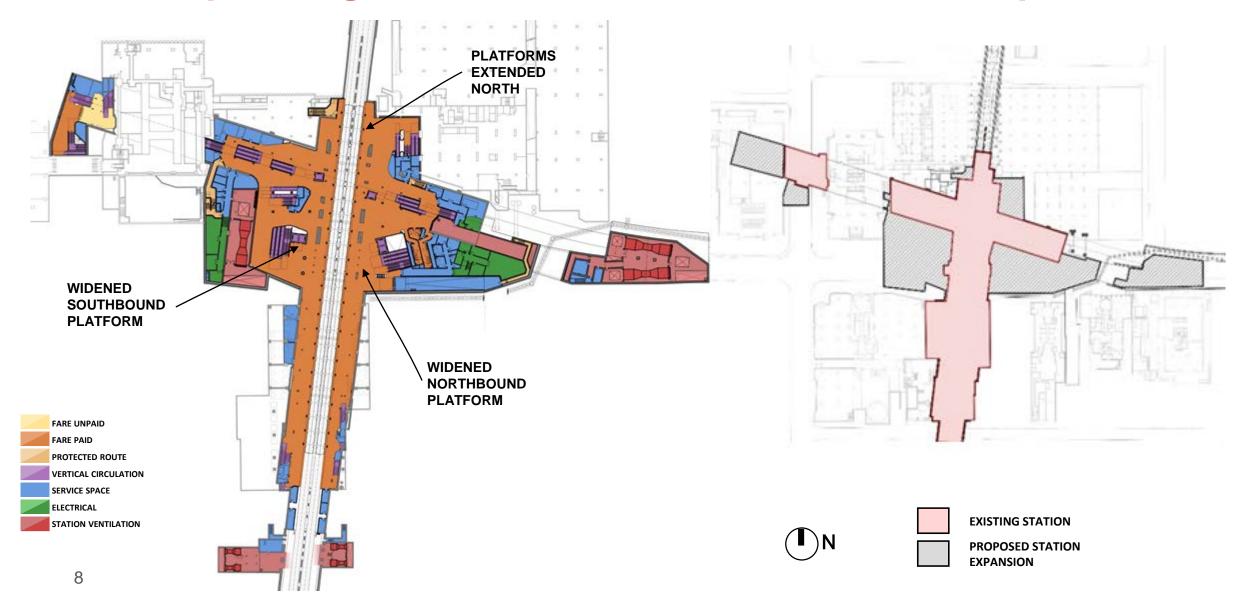
Scope of Work

- New 2nd platform Line 2 (Eastbound)
- Expansion of Line 1 NB and SB platforms
- New electrical substation
- 5 new fan plants
- Vertical circulation elements: escalators, elevators, stairs
- New entrance and fare line
- Associated utilities and finishes

Concept Design – Line 2 – Second Platform



Concept Design – Line 1 – Platform Extension/Expansion



Status Update – Completed/Ongoing Work

- 10% conceptual design completed Q1 2020
- Advancing design to 30% by Q1 2021 including Class 3
 Cost Estimate and Level 3 Schedule
- Peer review of conceptual design completed
- Property discussions to coordinate/integrate design and coordinate construction with developers are ongoing
- Preparing to commence early works in 2022
- Procurement Options Analysis is ongoing

Project Schedule

Stage	Milestone	Chart	Finish		2020			2021		2022			202			202				025			026			2027			2028			2029			030	
Gate Milestone		Start	Finish	Q1 (Q2 Q:	3 Q4	Q1 (Q2 Q3	Q4	Q1 Q2 C	Q4	Q1 (Q2 (Q3 Q4	Q1	Q2	Q3 Q	Q4 Q:	1 Q2	Q3	Q4	Q1 Q2	Q3	Q4	Q1 (Q2 Q3	3 Q4	Q1	Q2 Q3	Q4	Q1 Q	2 Q3	Q4 Q1	1 Q2	Q3	Q4
	10 % Conceptual Design	2018	Mar 2020	✓																																
	Conceptual Design Review	Mar 2020	May 2020		✓																															
SG2	Stage Gate 2 - Approved for Design		Jun 2020		\Q																															
	Baseline Design Development (30%)	Q1 2020	Q1 2021																																	
	Procurement Options Analysis	Q1 2020	Q4 2020																																	
	Prepare Project Baseline Documentation	Q3 2020	Q2 2021																																	
SG3	Stage Gate 3 - Project Baseline Approval		Q3 2021					\rightarrow																												
	Detailed Design	Q3 2021	Q4 2023																																	
	Early Works	Q1 2022	Q4 2023																																	
SG4	Stage Gate 4 - Approved for Procurement		Q4 2023											(\Diamond																					
	Procurement	Q4 2023	Q1 2024																																	
SG5	Stage Gate 5 - Approved for Implementation		Q1 2024			1	То	day																												
	Primary Construction	Q1 2024	Q4 2029				100	цау																												
SG6	Stage Gate 6 - Approval of Project Deliverables		Q4 2029																														\rightarrow			
	Project Closeout	Q1 2030	Q4 2030																																	
SG7	Stage Gate 7 - Approved for Handover		Q4 2030																																	\Diamond

Note: Schedule is based on Design Bid Build delivery strategy and is subject to the findings of the Procurement Options Analaysis

Completed as planned

Completed Late

Completed with Impact

On Schedule

Tracking behind Schedule

Poses Risk to Schedule

Next Steps

- Complete Baseline Design (30%) Q1 2021
- Prepare Stage Gate 3 Deliverables Q2 2021
 - Class 3 Cost Estimate
 - Level 3 Schedule
 - Business Case
 - Project Delivery Analysis
 - Risk Assessment
- Value Engineering Exercise Q4 2020
- Finalize scope of early works and commence detailed design
- Property acquisitions

Thank You

