

TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: August 26, 2009

SUBJECT: UNION STATION NEW PLATFORM
STATION FINISHES
CONTRACT U85-6

ACTION ITEM

RECOMMENDATIONS

It is recommended that the Commission approve the finishes for the Union Station New Platform project.

FUNDING

Funding for the Union Subway Station New Platform project is provided by the Waterfront Toronto (WT) as set out in the Waterfront Initiatives Category as set out on pages 1635 to 1643 of the TTC's 2009-2013 Capital Program which was approved by City Council on December 10, 2008.

Additional funds are included under the following projects:

- Project 3.9 Building and Structures, under Fire Ventilation Upgrades as set out on pages 781 to 792 of the State of Good Repair/Safety Category of the TTC's 2009 - 2013 Capital Program which was approved by City Council on December 10, 2008.
- Project 3.4 Bridges and Tunnels, under Bridges/Structures Maintenance Program as outlined in the TTC's 2010 - 2014 Capital Program submission.

Staff and WT are in the process of amending the Delivery Agreement to fund the \$137.5M required for the project.

BACKGROUND

The project will add a new subway platform to the south of the existing centre platform and reconfigure the concourse level. These modifications will improve the flow of commuter and pedestrian traffic through Union Station, including future passenger volumes, which are expected to nearly double by 2021. In addition, tunnel ventilation equipment will be upgraded as part of the Fire Ventilation Upgrade project and the existing

station platform and concourse roof structural repairs will be also be undertaken as part of the Bridges/Structures Maintenance program.

The Commission previously approved the design concept on November 17, 2004 and the artwork on February 27, 2008.

DISCUSSION

PROJECT SCOPE

The station details have been further developed with some refinements made since the conceptual design presented to the Commission in 2004. The proposed and existing moat concourse and platform level layouts are shown in Appendices 1 to 6. The noteworthy refinements are as follows:

- Revised layout to accommodate both of the existing stairs from concourse level to Front Street.
- Revised layout of the concourse level elements to further increase pedestrian flow through the station, including a wider by-pass at the west end of the concourse.
- Additional doors replaced a wall section at the west end of the moat to increase pedestrian circulation through the station.
- Additional stairs east and west of the main stairs in the moat were added to provide better pedestrian access to the station from the moat level.
- Concourse elevations were revised to accommodate the City's future "Dig Down" project.

PROJECT SCHEDULE

The project is scheduled to be tendered in November 2009 with the anticipated start of construction in early 2010 and completion by 2014.

STATION FINISHES

The design involves new station finishes, including replacement of existing ceiling, floors, column and wall finishes, signage, furnishings, lighting, new vertical circulation elements, new automatic entrance and an art wall.

Concourse

The existing concourse level will be reconfigured as shown in Appendix 1. The terrazzo floor will be replaced with new off white/light grey porcelain tile and the new and existing walls will be finished with porcelain tiles in the same colour pallet as the floors as shown in Appendix 4. The circular columns will be clad in stainless steel and all square/rectangular columns will be clad in porcelain tile similar to the floor's colour pallet.

The walls leading down to platform will be finished in a similar porcelain tile as the concourse walls. The existing stairs from concourse to centre platform will be relocated to the south to align with the south edge of the centre platform. The stairs will be finished with granite tile in a dark grey colour contrasting the non-slip tread edges in a light grey colour to aid visual differentiation. Tactile tile will be added at the top landings as per TTC standards. Bicycle channels will be added to all stairs. The stair balustrades will be constructed in glass with stainless steel framing.

The existing lift between the moat and concourse levels will be replaced by a series of ramps finished in a similar material as the concourse level. Tactile tile will be added at the top landings as per TTC standards.

The existing aluminium slat ceiling will be removed and replaced with aluminium hanging ceiling baffles in an off white/light grey colour as shown in Appendix 4.

The existing two collector's booths will be replaced with three new central booths and a new accessible fare control barrier. New signage meeting current TTC standards will be installed.

Lighting and Public Announcement systems will also be replaced.

Platform

The new subway platform constructed to the south of the existing centre platform will be served by two new escalators and one elevator connecting to the concourse as shown in Appendix 2. The new platform floor will be finished in a similar porcelain tile as the concourse level as shown in Appendix 6. There will be a direct connection from the Union LRT Station to the new south platform.

The existing escalators and elevator leading to the concourse will be relocated to align with the south edge of the existing centre platform. The ceramic tiles on the existing centre platform will be replaced with porcelain tiles similar to the new south platform and concourse level. The art wall will be located at the south edge of the existing centre platform. The existing aluminium slat ceiling will be replaced with an aluminium baffle and panel system, matching the concourse level's finish as shown in Appendix 5.

At the east end of both platforms, new stairs will be constructed leading up to a new

automatic entrance connecting to the Brookfield Place tunnel. The stairs will be finished with granite tile in a dark grey colour contrasting the non-slip tread edges in a light grey colour to aid visual differentiation. Tactile tile will be added at the top landings as per TTC standards. Bicycle channels will also be added. The automatic entrance floors will be finished in a similar porcelain tile as the platform and concourse levels.

All walls including those at the new escalators will be finished in a similar coloured porcelain tile as the concourse level. The circular columns will be clad in stainless steel and all square/rectangular columns will be clad in porcelain tile similar to the floor's colour pallet.

Moat

A new 37 metre wide stair will be constructed in the moat as shown in Appendix 3. These stairs will be removed by the City as part of their "Dig Down" project, thereby providing a stairless, accessible connection from the TTC concourse level to the proposed lower level in the Union Railway Station.

The City has plans to construct a permanent cover over the moat in 2014. The existing pedestrian canopy will be removed as part of the construction. Staff are still reviewing options to either have the City accelerate the cover or install a temporary canopy. However, in the interim, heat tracing will be provided on the stairs to melt snow and ice.

The stairs will be finished in a broomed concrete surface and the remaining moat floor will be reinstated as per the existing asphalt finish.

JUSTIFICATION

This report seeks approval for the Union Station New Platform Project Station finishes.

August 4, 2009

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- Attachments:
- Appendix 1 - Concourse Level Plan
 - Appendix 2 - Platform Level Plan
 - Appendix 3 - Moat Level Rendering
 - Appendix 4 - Concourse Level Rendering
 - Appendix 5 - Existing Centre Platform Level Rendering
 - Appendix 6 - New Platform Level Rendering

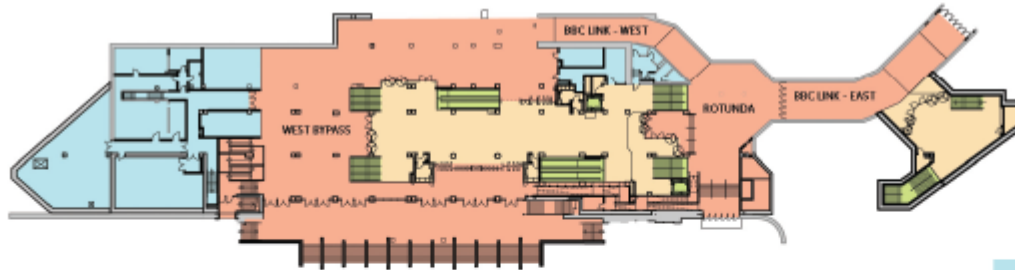
CONCOURSE LEVEL



EXISTING

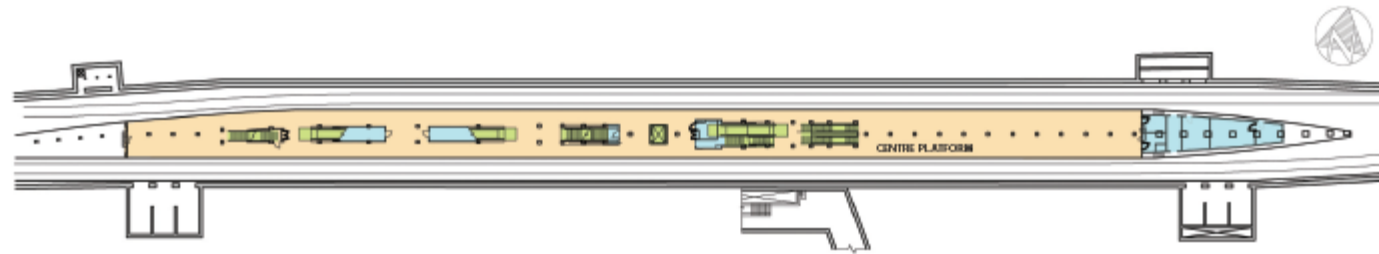


PROPOSED

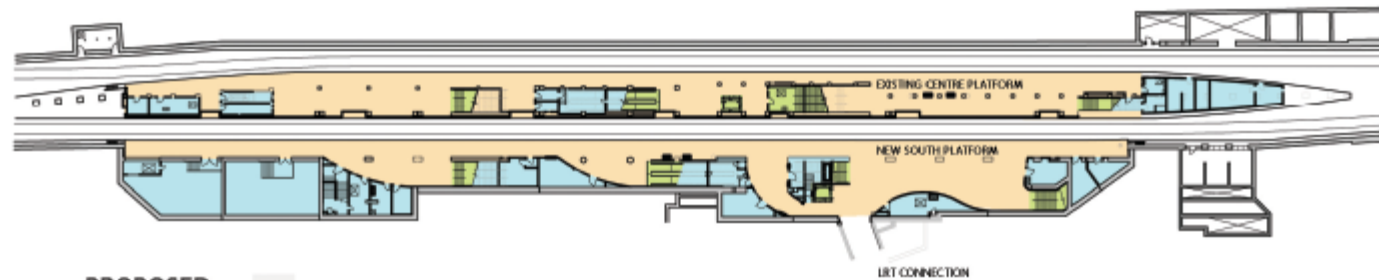


-  SERVICE AREA
-  FARE PAID AREA
-  FARE UNPAID AREA
-  VERTICAL CIRCULATION

PLATFORM LEVEL



EXISTING



PROPOSED

-  SERVICE AREA
-  FARE PAID AREA
-  VERTICAL CIRCULATION

APPENDIX 2

UNION SUBWAY STATION
NEW PLATFORM

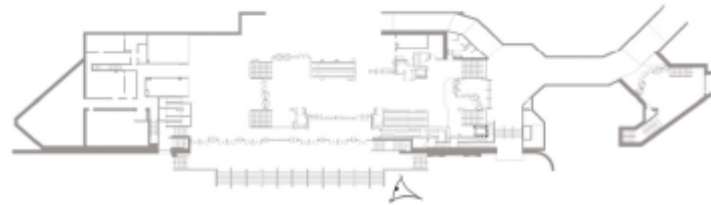
MOAT LEVEL



PROPOSED



EXISTING



CONCOURSE LEVEL

ALUMINUM
BAFFLES



OFF WHITE/LIGHT GREY
PORCELAIN TILES

PROPOSED



EXISTING



EXISTING CENTRE PLATFORM LEVEL

ALUMINUM
BAFFLES



ALUMINUM
CEILING PANEL

OFF WHITE / LIGHT GREY
PORCELAIN
TILES

PROPOSED



EXISTING



NEW PLATFORM LEVEL

