Stage 2
Belfast Yard Expansion

Residents of Avenue O & Avenue P
March 30, 2017
Agenda

• Overview of Stage 2 Rail Project
• Stage 2 & The Rideau Transit Group
• Belfast Yard Expansion
• Mitigation Measures
• Construction Timelines
• Questions
Stage 2 & RTG
Memorandum of Understanding (MOU)

• MOU with the Rideau Transit Group includes:
  – Procurement support
  – Stage 2 LRV fleet of 38 new vehicles
  – Belfast Yard Expansion
  – Communication equipment supply
  – Interface services
  – Operation & Maintenance of expanded network

• Stage 2 work must not impact substantial completion & revenue service of Stage 1
Belfast Yard Expansion
Scope of Work

• Early works (Design, Noise & Vibration Report, Berm removal, Noise wall, etc)
• Train shed expansion for additional 16 vehicles (west of existing shed)
• Additional maintenance bays (north of existing MSF)
• Pedestrian walkway over the shed
• Extend existing control room
• Additional tracks, switches and OCS in yard for expansion
• New bypass track and addition launch platform
Existing Belfast Yard

- Berm
- Storage Shed
- Admin building
- Maintenance bays

- MSF Speed
Belfast Yard Expansion
Scope of Work

• 38 New Vehicles
• Total permanent storage: 66 vehicles (LRVs)
• Total additional temporary storage: 6 vehicles
Belfast Yard Expansion
Scope of Work

- New Maintenance Bays
- Expanded Train Shed
- Noise wall
- Walkway & Stairs
- Ctrl Room 3 m
- New Bypass & Launch platform
Belfast Yard Expansion
Scope of Work

- New Maintenance Bays
- New Stairs
- New Walkway
- New Stairs
- New Maintenance Pit
- New Platform

NO WINDOWS
Belfast Yard Expansion
Early Works

- Early works confirmed as part of MOU
- Design works are underway for the following:
  - Noise + Vibration study report (construction and operations)
  - Berm removal
  - Noise wall design & construction
  - Utilities relocation
  - Special tracks order
  - Foundation works
Belfast Yard Expansion

Key Milestones

- Start of design works: Feb 2017
- Investigation on site: March 2017
- Noise + vibration study report: April 2017
- Start of berm removal: Spring 2017
- Start of Noise wall: Summer 2017
- Start of foundation works: Summer 2017
- Start of steel structure: Fall 2017
- Start of building envelope: Winter 2017
- Start of interior outfitting (MEP): Spring 2018
- Start of testing & commissioning: Fall 2018
- Expected substantial completion: December 2018
Belfast Yard Expansion
Mitigation Measures

- Noise and vibration analysis (construction and operations)
- Noise attenuation wall
- Construction hours and techniques
- Construction monitoring
- Landscaping features
- Options for acoustic treatments (exterior of noise wall)
- Dedicated stakeholder relations contact throughout construction and implementation
Belfast Yard Expansion
Mitigation Measures – Noise Wall

- Extension of the existing wall
- Adjustment of height to new performance criteria
- Implementation to start after berm removal
- Increased security measures
- Lighting installed inside of wall (focused toward building)
Belfast Yard Expansion
Mitigation Measures – Noise Wall

- Height of the wall to be adjusted according to the noise study (current view 6m height)
- Transplant of existing trees impacted by expansion works
- Exploring reuse of the prefab bloc walls to profile part of berm
- Exploring options for north side of wall including:
  - Screening and/or greening of exterior of wall
  - Acoustic treatments to exterior of the wall
Questions?

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