

Stage 2

Belfast Yard Expansion

Residents of Avenue O & Avenue P
March 30, 2017



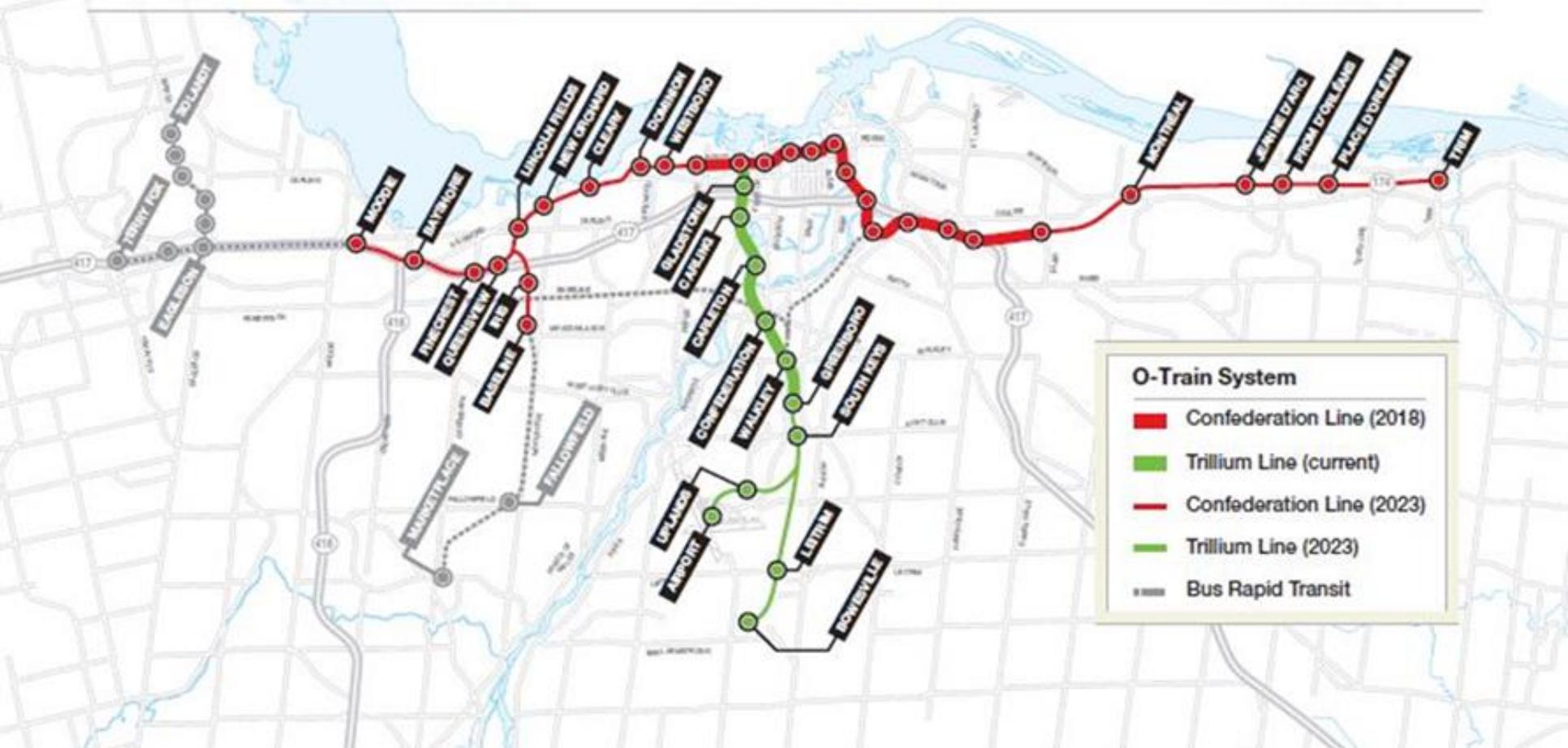
- Overview of Stage 2 Rail Project
- Stage 2 & The Rideau Transit Group
- Belfast Yard Expansion
- Mitigation Measures
- Construction Timelines
- Questions



Confederation Line **WEST**

Trillium Line **SOUTH**

Confederation Line **EAST**



Stage 2 & RTG

Memorandum of Understanding (MOU)

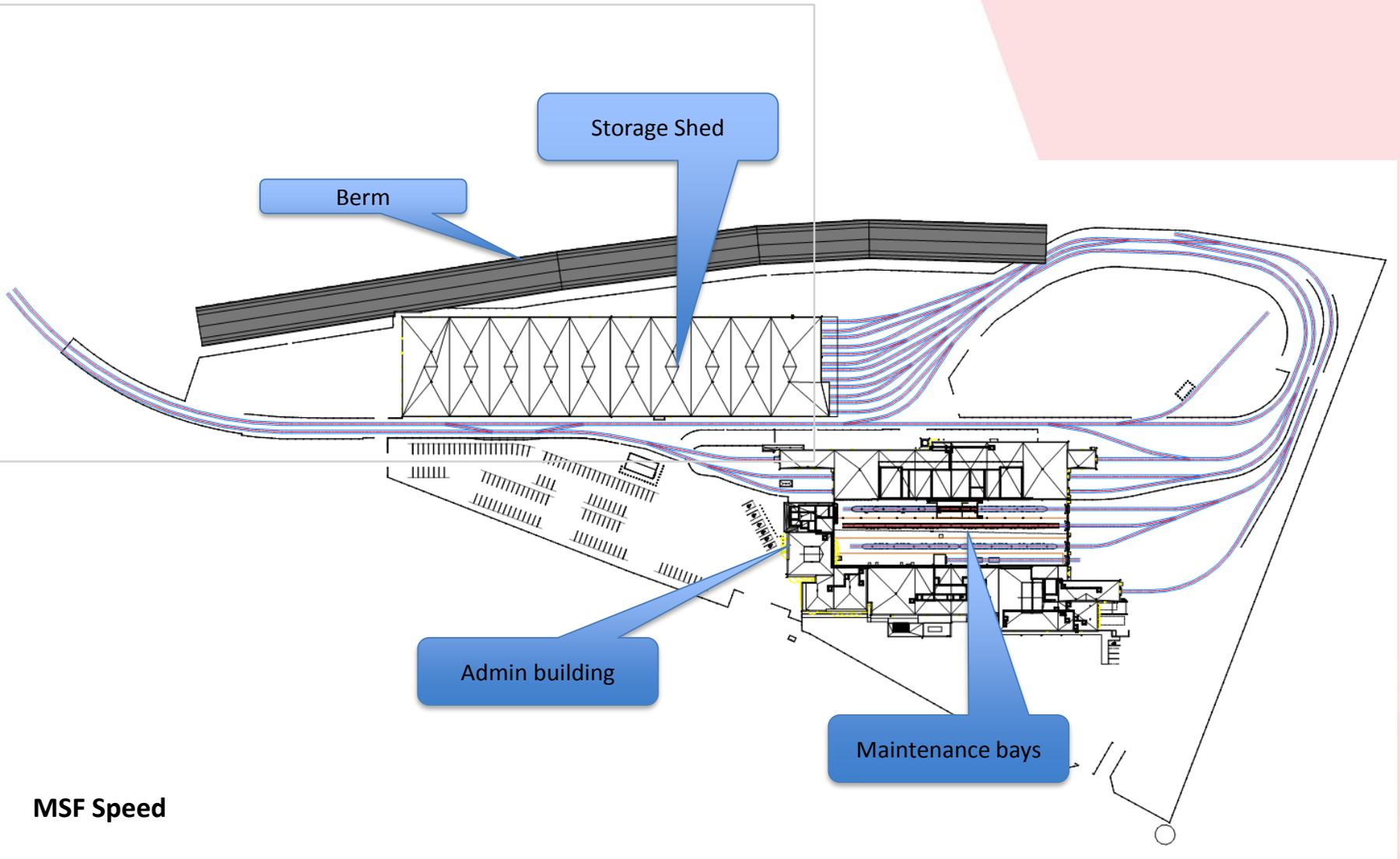
- MOU with the Rideau Transit Group includes:
 - Procurement support
 - Stage 2 LRV fleet of 38 new vehicles
 - Belfast Yard Expansion
 - Communication equipment supply
 - Interface services
 - Operation & Maintenance of expanded network
- Stage 2 work must not impact substantial completion & revenue 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

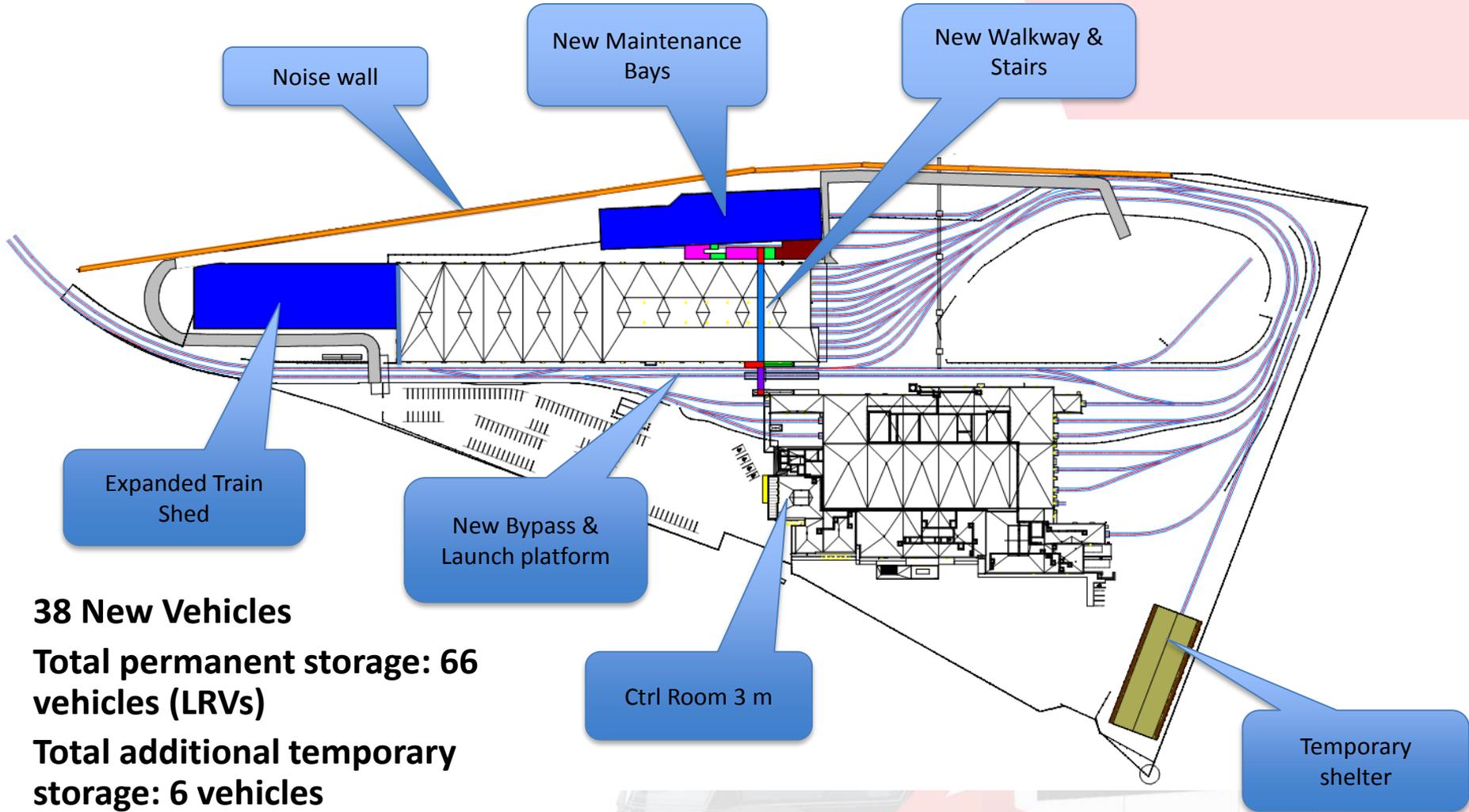
Existing Belfast Yard



- MSF Speed

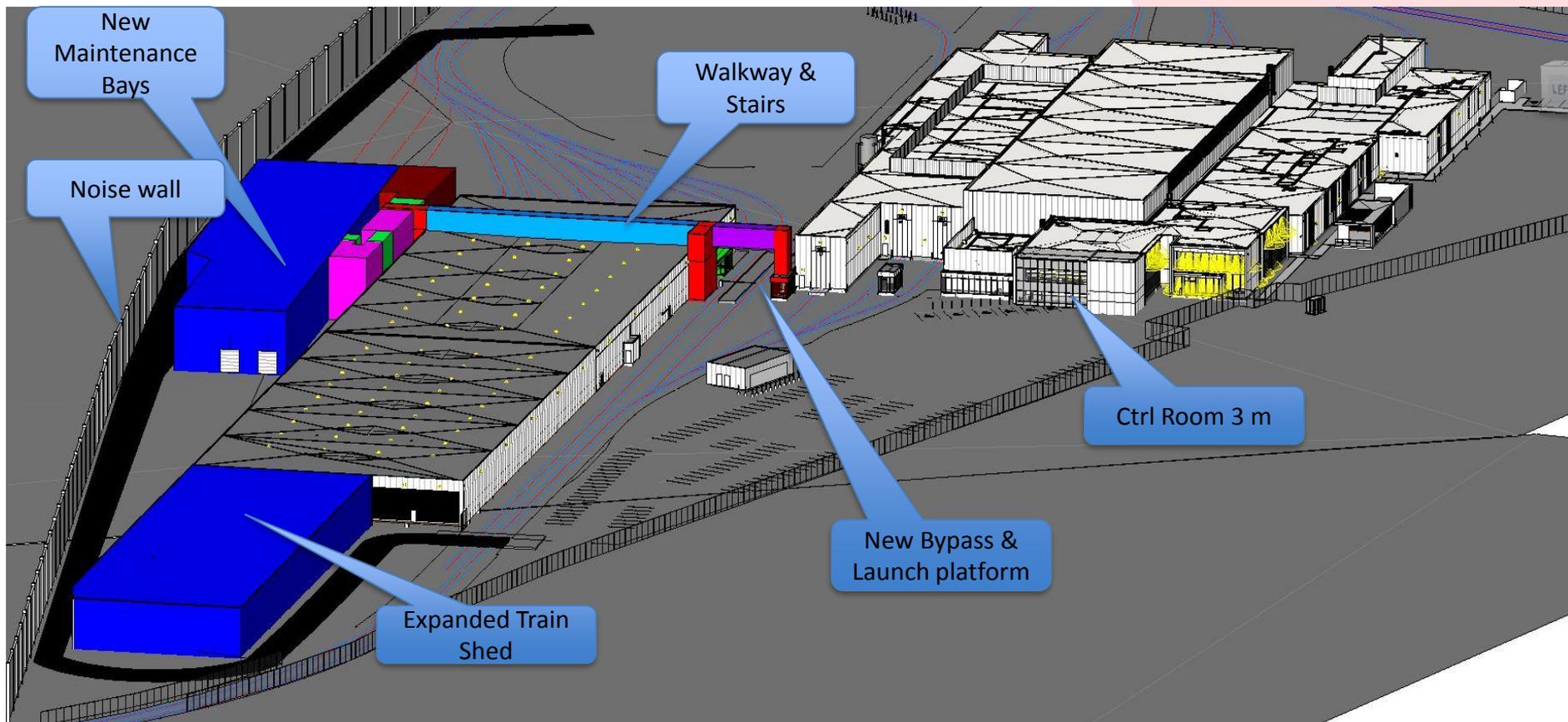
Belfast Yard Expansion

Scope of Work

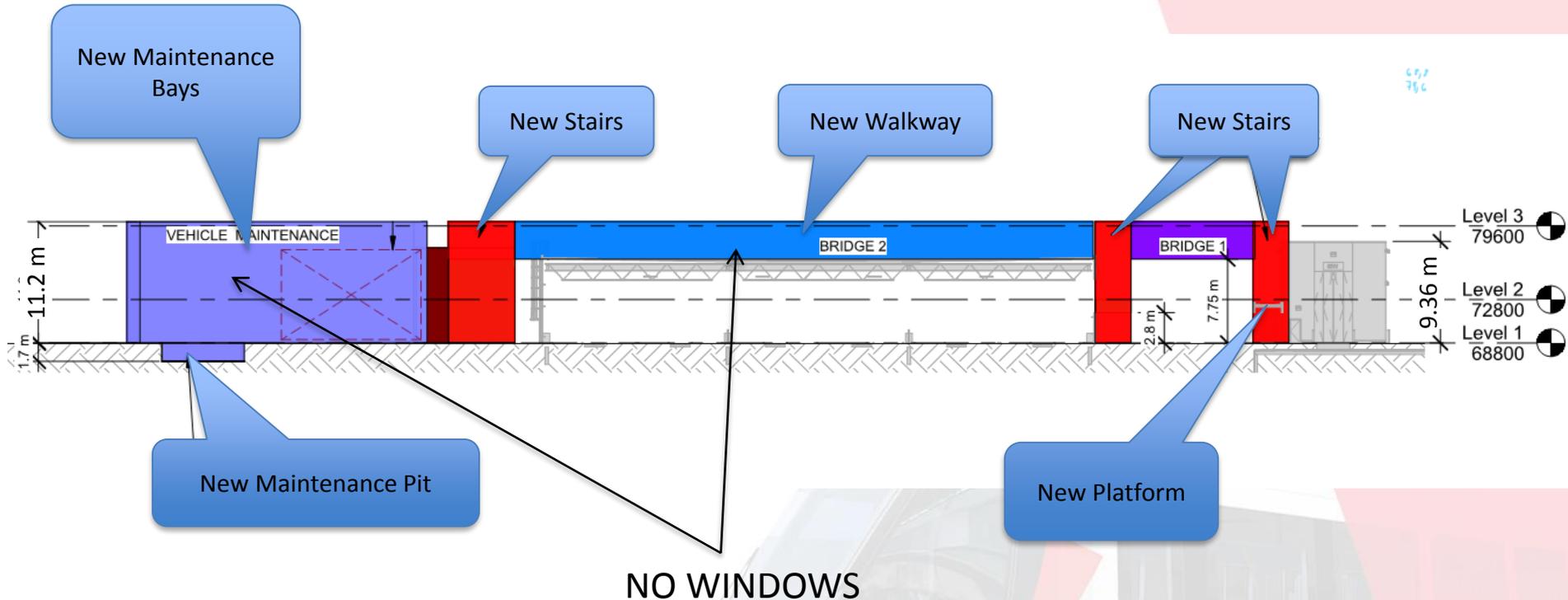


- **38 New Vehicles**
- **Total permanent storage: 66 vehicles (LRVs)**
- **Total additional temporary storage: 6 vehicles**

Belfast Yard Expansion Scope of Work



Belfast Yard Expansion Scope of Work



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

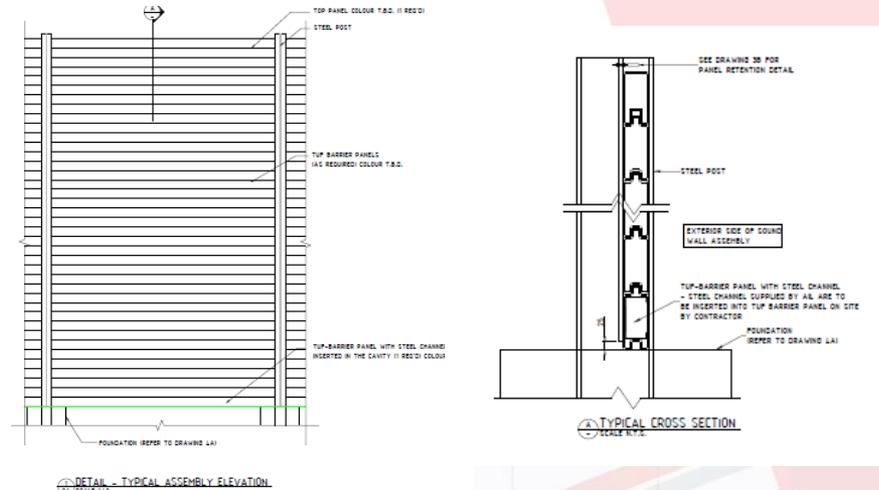
Belfast Yard Expansion Mitigation Measures

- 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

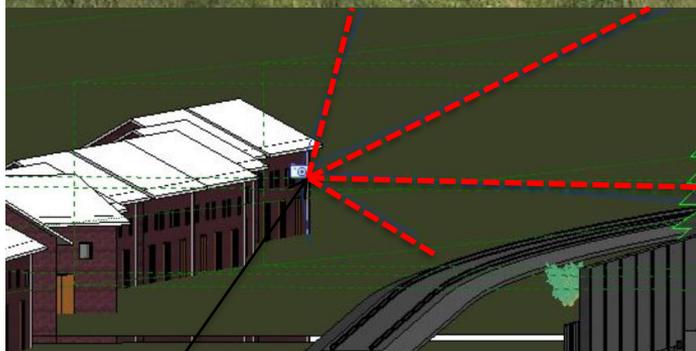
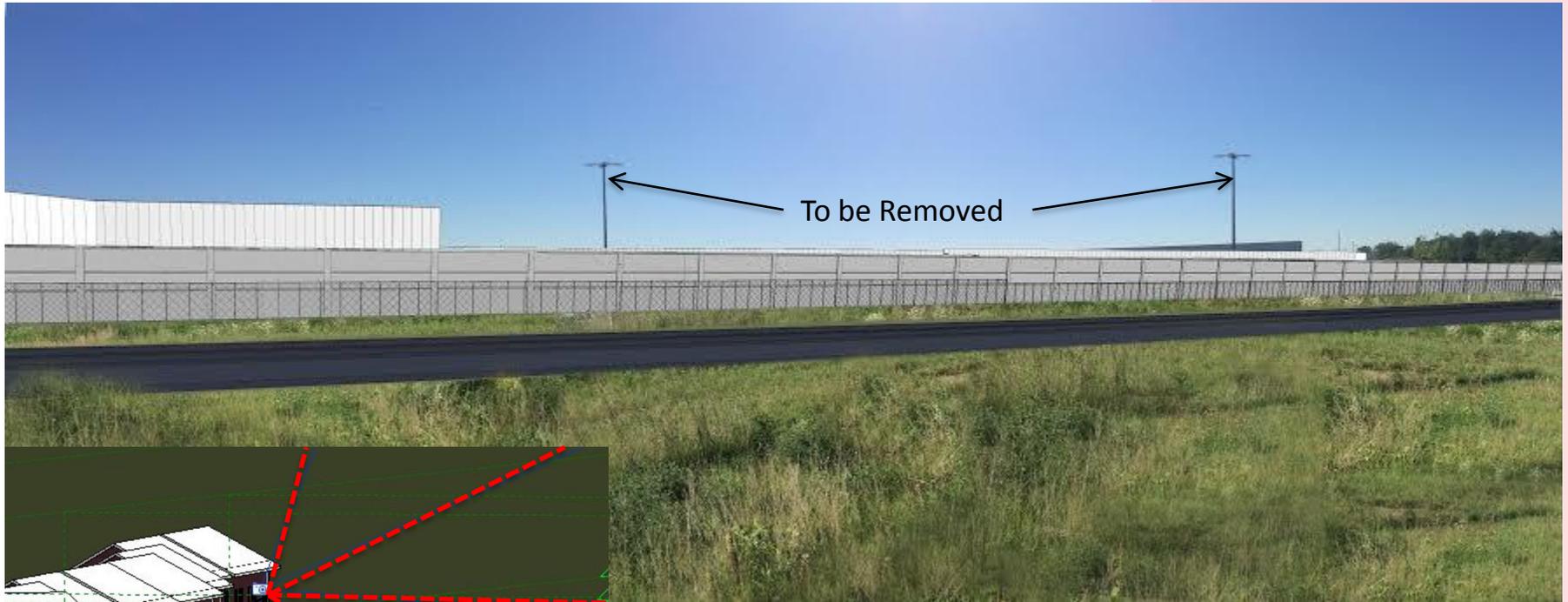
Belfast Yard Expansion

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



Point of view

- Height of the wall to be adjusted according to the noise study (current view 6m height)

Belfast Yard Expansion

Mitigation Measures – Landscaping Features



- 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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