

FOCUS ON: NIR USER WORK CROSSING CLOSURES IN BALLYMONEY



projectupdate

Train passing under newly constructed bridge

In early November 2022, FP McCann successfully completed the XL 122 to 126 User Worked Crossing Closure Project on behalf of NI Railways. The project involved the construction of a new single span pre-stressed concrete integral overbridge over the railway West of Ballymoney including construction of approach embankments on each side and the construction of two new Earth Retaining Wall structures.

As part of the retaining wall structure construction, 450mm diameter CFA piles were installed on which 2 reinforced concrete pile caps were formed. 4 reinforced concrete bridge support columns were then installed prior to the construction of the 2 number 'Macwall -Vertica' earth retaining structures. The wall was a combination of Macwall-Vertica 4 degree concrete facing blocks, geogrid reinforcement and FP McCann class 6l granular fill. Throughout these works the railway remained fully operational.

The 15.2 m long precast concrete prestressed bridgebeams were installed at the start of July 2022 within an 8 hour railway line possession, along

with a guardrail system so as the remainder of the bridge could be constructed during normal working hours and train movements. The remaining works including the bridge deck, waterproofing and installation of the bridge parapet system.

The other works either side of the bridge structure included construction of 475 linear meters of reinforced concrete laneway, installation of 550m of Vehicle restraint system, installation of new agricultural fencing, and installation of new storm drainage.

This project is part of NI Railways overall strategy to improve safety especially at User Worked Crossings throughout the NIR network, where possible (as in this instance) closing 5 crossings through provision of alternative access to lands and premises.

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Southern Bridge Approach Ramp under construction



View from Trackside of Macwall - Vertica Earth Retaining Wall



Concrete Lane under construction



Completed lane access to NI Water facility



Norther Bridge Approach Ramp under construction



Completed scheme

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New Bridge Parapet system



Concrete Access Lane



Concrete Access Lane



Concrete Access Lane



Concrete Access Lane



Concrete Access Lane

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Aerial progress shot of work from start to finish

contactdetails

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Hamilton Walker (028 7964 2558)

Client:
Northern Ireland Railways (Known as Translink)

Principal Designer:
Amey Consulting

Project Manager:
Martin Quigg (Amey Consulting)



We were recently awarded a Certificate of Excellence from the Considerate Constructors Scheme for this project.

certification



FP MCCANN LEADING THE WAY IN CONSTRUCTION WORKS