

APPENDIX 13.3.3

REVIEW OF EXISTING BRIDGE STRUCTURES

A location for each structure is given in Appendix 13.3.1.

13.3.1 BRIDGE 1 LOUGH ATALIA ROAD BRIDGE

Iarnród Éireann bridge reference number 142.

This existing twin rail multi – span over bridge is outside the scope of this report as no works are envisaged to the existing rail system within this area, for the benefit of harbour generated freight.

13.3.2 BRIDGE 2 RENMORE (NEAR DEPARTMENT OF DEFENCE ACCOMMODATION)

Iarnród Éireann bridge reference number 600.

This bridge consists of a single 3.9m span rail over road structure consisting of a riveted steel deck supported upon stone/masonry faced abutments.

This bridge also carries a timber pedestrian footway known as military walk along one side of the track separated from the rail line by a circa 2.0m high palisade steel security fence.

The existing steel deck is currently sized for a single rail line. However, the existing abutments appear to be of sufficient size to allow the replacement of the deck with a suitably sized twin rail width deck to be installed upon the existing abutments. This would be required to facilitate the proposed twin line arrangement required to achieve Iarnród Éireann's proposed passenger service expansion plans. This would be subject to a detailed structural / gauging survey being undertaken.

The existing abutments also appear to have previously accommodated a public footway within the original design. This could be incorporated within the required new deck structure.

13.3.3 BRIDGE 3 RENMORE BRIDGE (AT THE ENTRANCE TO THE BARRACKS)

Iarnród Éireann bridge reference number OB G 167.

This bridge consists of a single 9.0m span road over rail structure consisting of a masonry faced construction.

Our concerns with this structure centres on its ability to accommodate a twin rail gauging clearance below the arch of the span at Iarnród Éireann's preferred 2.0m rail to rail spacing. Should this spacing be relaxed slightly, the bridge would be able to accommodate the proposed twin line arrangement required to achieve Iarnród Éireann's proposed passenger service expansion plans without any alteration.

Such would be subject to a detailed structural / gauging survey being undertaken.

13.3.4 BRIDGE 4 RENMORE – BALLYLOUGHAUN

Iarnród Éireann bridge reference number 549.

This bridge consists of a single circa 4.0m span rail over road structure consisting of a masonry faced construction.

The existing bridge width has been surveyed with a 9.1m face to face dimension. This width should be adequate to accommodate Iarnród Éireann's proposed passenger service expansion plans, subject to checking by a detailed structural / gauging survey.

13.3.5 BRIDGE 5 MURROUGH (ROSCAM AREA)

Iarnród Éireann bridge reference number 528.

This bridge consists of a single span, skewed, rail over road structure consisting of a riveted steel deck supported upon stone/masonry faced abutments.

The existing steel deck appears to be sized for a twin rail line. This width of 8.4m should be adequate to accommodate Iarnród Éireann's proposed passenger service expansion plans without any alteration, subject to checking by a detailed structural / gauging survey.

13.3.6 BRIDGE 6 BETWEEN MURROUGH AND CURRAGREAN

Iarnród Éireann bridge reference number OB G 164 A.

This bridge consists of a single 8.56m span road over rail structure consisting of a concrete deck and masonry faced construction.

The existing clearance width of 8.56m appears to be sized for a twin rail line. This should be adequate to accommodate Iarnród Éireann's proposed passenger service expansion plans without any alteration, subject to checking by a detailed structural / gauging survey.

13.3.7 BRIDGE 7 CARTON BRIDGE

Iarnród Éireann bridge reference number 527.

This bridge consists of a single 3.2m span rail over road structure consisting of a riveted steel deck supported upon stone/masonry faced abutments. The deck width is recorded at 8.5m.

The existing clearance width of 8.5m appears to be sized for a twin rail line. This should be adequate to accommodate Iarnród Éireann's proposed passenger service expansion plans without any alteration, subject to checking by a detailed structural / gauging survey.

13.3.8 BRIDGE 8 N6 DUAL CARRIAGEWAY NEAR CARROWMONEASH

Iarnród Éireann bridge reference number OB G 163 D.

This bridge consists of a skewed single width 7.4m span road over rail structure consisting of a concrete deck and wall construction.

The existing clearance width of 7.4m appears to be sized for a twin rail line. This should be adequate to accommodate Iarnród Éireann's proposed passenger service expansion plans without alteration, subject to checking by a detailed structural / gauging survey.

13.3.9 BRIDGE 9 DERRY DONNELL BRIDGE

Iarnród Éireann bridge reference number OB G 163 D.

This bridge consists of a skewed, single span, rail over road structure consisting of a riveted steel deck supported upon stone / masonry faced abutments. The deck width is not recorded.

The existing steel deck is currently sized for a single rail line. It would require a replacement deck of a suitable size to accommodate Iarnród Éireann's proposed passenger service expansion plans. The new deck could be installed upon the existing abutments, as the line was originally constructed and operated on a twin line basis.

13.3.10 BRIDGE 10 GORTROE BRIDGE

Iarnród Éireann bridge reference number OB G 159.

This bridge consists of a skewed, single width 9.5m span, road over rail structure consisting of an arched masonry faced construction.

The existing clearance width of 9.5m appears to be sized for a twin rail line. This should be adequate to accommodate Iarnród Éireann's proposed passenger service expansion plans without alteration.

13.3.11 BRIDGE 11 PROPOSED N18 RAIL CROSSING AT GORTROE

No Iarnród Éireann bridge reference number not currently known.

This is a new reinforced concrete bridge with a single span of circa 14.55m, which has being sized during its design and construction to accommodate the proposed Iarnród Éireann's passenger rail expansion works.

13.3.12 BRIDGE 12 BRIDGE BETWEEN DERRYDONNELL AND BALLYGARRAUN

Iarnród Éireann bridge reference number 140.

This bridge consists of a skewed, single span, rail over road structure consisting of a riveted steel deck supported upon stone/masonry faced abutments. The deck has a width of approximately 5.6m.

The existing steel deck is only sized for a single rail line. The existing abutments appear to be of sufficient size to allow the replacement of the deck with a suitably sized twin rail width deck to be installed upon the existing abutments.

This would be required to facilitate the proposed twin line arrangement for Iarnród Éireann's proposed passenger service expansion plans. This is subject to a detailed structural / gauging survey being undertaken.