



ENVIRONMENTAL IMPACT ASSESSMENT REPORT

TEN-T Priority Route Improvement Project, Donegal Chapter 17: Cultural Heritage



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EIAR

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Abbreviations

The following is a list of abbreviations used within this chapter of the Environmental Impact Assessment Report (EIAR).

Table 17-1: TEN-T List of Abbreviations used within Chapter 17: Cultural Heritage

List of Abbreviations	
AAP	Areas of Archaeological Potential
AFM	Annals of the Four Masters
AMS	Archaeological Management Solutions
AP	Aerial Photographic
ASI	Archaeological Survey of Ireland
COI	Church of Ireland
DfC:HED	Department for Communities: Historic Environment Division
DHLGH	Department of Housing, Local Government and Heritage
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report
EPA	Environmental Protection Agency
ESRI	Environmental Systems Research Institute
GPR	Ground Penetrating Radar
HAHMP	Historic and Archaeological Heritage and Miscellaneous Provisions
HED	Historic Environment Division
HLC	Historic Landscape Characterisation
ICH	Intangible Cultural Heritage
ICOMOS	International Council on Monuments and Sites
ITM	Irish Transverse Mercator
LCA	Landscape Character Assessment
LMA	Lands Made Available
NIAH	National Inventory of Architectural Heritage
NISMR	Northern Ireland Sites and Monuments Record
NMI	National Museum of Ireland
NMS	National Monument Service
OS	Ordnance Survey
OSR	Options Selection Report
OUV	Outstanding Universal Value
RHM	Register of Historic Monuments
RMP	Record of Monuments and Places
RPS	Record of Protected Structures
S&LR	Strabane and Letterkenny Railway
SMR	Sites and Monuments Record
TEN-T	Trans-European Transport Network
TII	Transport Infrastructure Ireland
UNESCO	United Nations Educational, Scientific and Cultural Organisation

17 CULTURAL HERITAGE

17.1 Introduction

Detailed below is an appraisal of the cultural heritage resource pertaining to the TEN-T Priority Route Improvement Project, Donegal, hereafter referred to as the 'Proposed Development'. A full project description is contained in Chapter 4: Project Description of the EIAR. Cultural Heritage drawings showing receptor locations relative to the proposed alignments are presented in Volume D (EIAR Drawing 17.01 – 17.03). All associated Cultural Heritage technical appendices are presented in Volume C of the EIAR.

The term 'Cultural Heritage' encompasses several aspects of heritage. This includes tangible assets that are immovable (such as archaeological sites and monuments, architectural heritage buildings), portable (such as artefacts and ecofacts) and sited *underwater* (such as shipwrecks or submerged archaeological features). Cultural Heritage also includes intangible assets (e.g. folklore, oral tradition, music, placenames and language). In broad terms, 'Cultural Heritage' includes the designated and non-designated heritage categories of (i) archaeology (known and unknown), (ii) architectural (built) heritage, (iii) cultural landscapes (iv) artefacts or objects of significance and (v) intangible heritage (history and folklore).

Detailed assessment and data collation undertaken at constraints study stage and option selection stage has informed baseline studies for the EIAR assessment of the Proposed Development. Furthermore, due cognisance has been taken of additional available project data in the form of archaeological LiDAR assessment results, archaeological Geophysical Survey data results and on-site archaeological test-trenching results. Detailed field walkover inspections of the Proposed Development have been undertaken in order to inform the evaluation of the significance of predicted impacts on the recorded and unrecorded Cultural Heritage resource within the Study Area.

17.1.1 Competent Expert

This chapter has been prepared and reviewed by cultural heritage consultancy John Cronin & Associates (JCA).

The lead author of this chapter is Kate Robb BA MA PGDip EIA/SEA Mgmt MIAI. She is a qualified archaeologist and an EIA heritage consultant, with over 17 years' industry experience and has prepared and produced Cultural Heritage EIAR (all phases) for a wide range of large-scale infrastructural projects, including roads, greenways, flood relief schemes and renewable energy developments. As part of EIAR cultural heritage consultancy services, Kate regularly evaluates the archaeological, architectural and historic/social heritage resource, identifies sensitivity to change and the integral elements of respective historic landscape settings that form part of the character of the cultural heritage resource.

17.1.2 Methodology

17.1.2.1 Definition of the Study Area

The Study Area for the Proposed Development is defined as 300 m-wide overall assessment corridors (150 m from centre-line) relative to each preferred alignment design¹. This defined receiving environment area facilitates detailed assessment of any identified impacts on the Cultural Heritage resource. Measurements for impact assessment purpose have been assigned from the closest edge of the alignment design footprint to the closest edge of upstanding Cultural Heritage remains. For instances where there are no upstanding remains, measurements have been assigned from the closest edge of the alignment design footprint to a representative centre-point of the site.

¹ Transport Infrastructure Ireland (TII) Guidelines (2005a, 35 & 2005b, 27) recommend a minimum of 50m either side of centre-line. TII Guidelines (2024, 41-42) recommends a 250m Study Area beyond the land-take boundary. The variation of the adopted 300m wide corridor Study Area is due to design and assessment stages having been agreed as standard and appropriate to the development in terms of encompassing all working and temporary working areas as well as sufficient area extent beyond the land-take boundary in order to identify and assess like direct and indirect impacts on the Cultural Heritage resource.

In certain instances, recorded Cultural Heritage sites or monuments that are located outside of the Study Area assessment corridors have been included for assessment purposes. This includes Cultural Heritage sites that are deemed to have heightened sensitivities in terms of landscape setting (designed or natural), amenity value and/or contemporaneous grouping value related to sites located within the Study Area.

17.1.2.2 Legislative Context

This assessment complies with the requirements of Directive 2011/92/EU as amended by Directive 2014/52/EU, and the *Planning and Development Act, 2000* (as amended) and *Planning and Development Regulations, 2001* (as amended). Furthermore, the *Roads Act, 1993* (as amended) provides for the construction and maintenance of public roads as well as requirements for EIA (Sections 50 and 51).

The management and protection of cultural heritage in Ireland is achieved through a framework of national laws, policies and charters which are in accordance with the provisions of:

- *The World Heritage Convention* (1972) (UNESCO Convention Concerning the Protection of the World Cultural and Natural Heritage) ratified by Ireland in 1991.
- *Valletta Convention* (1995) (formally the European Convention on the Protection of the Archaeological Heritage, 1992) ratified by Ireland in 1997.
- *Granada Convention* (1985) (European Convention on the Protection of Architectural Heritage) ratified by Ireland in 1997.
- *Florence Convention* (2000) (European Landscape Convention) ratified by Ireland in 2002.
- *UNESCO Convention on the Protection of the Underwater Cultural Heritage* (2001). Ireland is a signatory and underwater Cultural Heritage is protected under the *National Monuments Acts 1930-2014* and the *Historical and Archaeological Heritage and Miscellaneous Provisions Act (2023)*. The latter will facilitate the ratification of the 2001 Convention by Ireland in due course.
- *Paris Convention* (2003) (UNESCO Convention for the Safeguarding of the Intangible Cultural Heritage) ratified by Ireland in 2015.

Ireland is a signatory to international charters and declarations sponsored by the International Council on Monuments and Sites (ICOMOS), a global non-governmental organisation and advisory body of the World Heritage Committee for the implementation of the World Heritage Convention of UNESCO. ICOMOS endeavours to promote the conservation, protection, use and enhancement of monuments, building complexes and sites. Relevant declarations and charters include:

- *Venice Charter* (1964) International Charter for the Conservation and Restoration of Monuments and Sites and its addendum the *Florence Charter* (1981) concerning the preservation of Historic Gardens.
- *Washington Charter* (1987) ICOMOS Charter for the Conservation of Historic Towns and Urban Areas.
- *Charter on the Built Vernacular Heritage* (1999) ratified by ICOMOS to establish principles in addition to the Venice Charter for the care and protection of built vernacular heritage.
- *Xi'an Declaration* (2005) ICOMOS Declaration on the Conservation of the Setting of Heritage Structures, Sites and Areas.
- *Burra Charter* (2013) Australia ICOMOS Charter for Places of Cultural Significance.

Relevant national legal statutes include:

- Historical and Archaeological Heritage and Miscellaneous Provisions Act (2023).
- National Monuments Act (1930 - 2014).
- Heritage Act (1995) (as amended).
- National Cultural Institutions Act (1997) (as amended).
- Planning and Development Act (2000) (as amended).

The *Historical and Archaeological Heritage and Miscellaneous Provisions Act 2023* ('the HAHMP Act 2023') was enacted on 13th October 2023, with a Commencement Order of some of its elements effective from 31st May 2024. While the HAHMP Act 2023 is now law, it is important to note that Section 1(7) to section 1 (13) of

the HAHMP 2023 Act requires that the majority of its provisions require a commencement order to come into operation.

There have been a number of commencement orders made with respect to the HAHMP 2023 Act (namely SI No 252 of 2024, SI No. 663 of 2024, SI No. 88 of 2025, SI No. 470 and SI No. 555 of 2025) which has commenced various sections of the HAHMP 2023 Act. However not all sections of the HAHMP 2023 Act have commenced. In particular, section 7 of the Act (which provides for the repeal of the National Monuments Acts 1930 to 2014 and related legislation) has not entered into force insofar as it relates to the National Monuments Acts 1930-2024. Accordingly, the National Monuments Acts 1930 to 2014 remains fully in force.

The sections of the HAHMP Act 2023 that have already commenced during the time of this chapter preparation and assessment do not have any bearing on the methodological approach utilised for assessment of impact of the Proposed Development on the Cultural Heritage resource.

There are a number of mechanisms under the *National Monument Act 1930-2014*, the *Heritage Act 1995*, the *HAHMP 2023 Act* and relevant provisions of the *National Cultural Institutions Act 1997*, that are applied to secure the protection of archaeological remains, which are held to include all man-made structures of whatever form or date except buildings habitually used for ecclesiastical purposes.

The *National Monuments Act 1930-2014* secures designation of sites of national significance as National Monuments, enters archaeological sites onto the Register of Historic Monuments (RHM) and the Sites and Monuments Record (SMR) and includes sites in the Record of Monuments and Places (RMP). All RMP sites receive statutory protection under the Act. The Act also allows for the placing of Preservation Orders and Temporary Preservation Orders on endangered sites, which secures designation protection as that for National Monuments. Full details pertaining to the archaeological resource and the legal framework are provided in Appendix C17.01 and Appendix C17.02.

Protection of the architectural heritage in Ireland is provided for through a range of legal instruments that include the *HAHMP 2023 Act*, the *Heritage Act 1995*, and the *Planning and Development Act 2000 (as amended)*. Under the *Planning and Development Act 2000* all Planning Authorities are obliged to keep a 'Record of Protected Structures' (RPS) of special architectural, historical, archaeological, artistic, cultural, scientific, social or technical interest. The relevant development plan pertaining to the Study Area is the *County Donegal Development Plan 2024-2030*.

The National Inventory of Architectural Heritage was established to record architectural heritage structures within the State and to advise local authorities in relation to structures of architectural heritage significance within their administrative areas. Full detail pertaining to the architectural heritage resource and the legal framework is provided in Appendix C17.01 and Appendix C17.02.

In December 2015 Ireland ratified the *2003 UNESCO Convention for the Safeguarding of the Intangible Cultural Heritage (ICH)*. Ireland's obligations under the 2003 Convention include establishing a *National Inventory for Intangible Cultural Heritage* (National Inventory of ICH) to protect, promote and celebrate Irish living cultural heritage practices, customs, crafts and traditions. In November 2024, the International Council on Monuments and Sites (ICOMOS) officially adopted its International Charter and Guidance on Sites with Intangible Cultural Heritage, thereby aligning with the 2003 Convention. The ICOMOS Charter (2024) emphasises the important role of intangible Cultural Heritage as a means to ensure collective culture, which is inextricably linked to tangible Cultural Heritage. Full details relating to same are provided in Appendix C17.01.

The *Code of Practice for Archaeology (2017)* agreed between the Minister for Arts, Heritage, Regional, Rural and Gaeltacht (now the Department of Housing, Local Government and Heritage, DHLGH) and Transport Infrastructure Ireland (TII) provides "a framework within existing legislation (National Monument Act 1930 to 2014 and Roads Act 2015) and policy to enable TII to progress with its programme of work in accordance with the Government's transport strategy, whilst carrying out appropriate archaeological assessment and mitigation having regard to a set of principles and actions agreed by both parties". Due cognisance of the agreed principles set out in the Code of Practice (2017) has been taken in the preparation of this chapter.

The methodology utilised for this assessment is based on a range of guidance documents including the following:

- *Guidelines for the Assessment of Archaeological Heritage Impacts of National Road Schemes (2005)* TII Publication Number PE-ARC-02006 [note that these guidelines were operational during the design and planning phase of the Proposed Development].
- *Guidelines for the Assessment of Architectural Heritage Impacts of National Road Schemes (2005)* TII Publication Number PE-ARC-02007 [note that these guidelines were operational during the design and planning phase of the Proposed Development].
- *Guidelines for Cultural Heritage Impact Assessment of TII National Road and Greenway Projects (2025)* TII Publication Number PE-ARC-02009 [note that these guidelines were introduced at the latter stages of design and planning phase of the Proposed Development and have replaced the two guidelines mentioned above. However, working drafts for peer review and stakeholder consultation were in circulation since 2021, along with published guidance in 2024, and this assessment is in compliance with the most recent 2025 updated published guidelines].
- *Cultural Heritage: Engaging the Public. Archaeology, Built Heritage, Landscape, Portable Heritage and Intangible Heritage (2025)* TII Publication GE-ARC-01035.
- *Project Manager's Manual for National Road Projects (2025)* TII Publication PE-PMG-02042.
- Department of Arts, Heritage, Gaeltacht and the Islands (1999) *Framework and Principles for the Protection of the Archaeological Heritage*.
- Environmental Protection Agency (2022) *Guidelines on the Information to be contained in an Environmental Impact Assessment Reports*.
- Department of Housing, Planning & Local Government (2018) *Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment*.
- European Commission (2017) *Guidance on the preparation of the Environmental Impact Assessment Report*.
- UNESCO (2022) *Guidance and Toolkit for Impact Assessments in a World Heritage Context*.
- Department of Environment, Heritage & Local Government (2008) *National Policy on Town Defences*.
- Historic England (2017) *The Setting of Heritage Assets: Historic Environment Good Practice Advice in Planning Note 3 (Second Edition)*.
- Historic Environment Scotland (2016) *Managing Change in the Historic Environment: Setting*.
- Department for Communities NI (Historic Environment Division(HED)) (2018) *Guidance on Setting and the Historic Environment*.
- Department of Arts, Heritage, and the Gaeltacht (2011) *Architectural Heritage Protection: Guidelines for Planning Authorities*.
- Department of Housing, Local Government & Heritage (2021) *A Living Tradition: A Strategy to Enhance the Understanding, Minding and Handing on of Our Built Vernacular Heritage*.
- Department of Housing, Local Government & Heritage (2022) *Places for People: National Policy on Architecture*.
- Donegal County Council County Donegal Development Plan 2024-2030.
- Donegal County Council Letterkenny Plan and Local Transport Plan 2023-2029.
- Donegal County Council County Donegal Heritage Plan 2023-2030.
- Donegal County Council (2016) *Landscape Character Assessment of County Donegal*.
- Department of Arts, Heritage and the Gaeltacht (2015) *A National Landscape Strategy for Ireland 2015-2025*.
- Department of Public Expenditure & Reform (2021) *National Development Plan 2021-2030 (reviewed 2025)*.
- Northern & Western Regional Assembly *Regional Spatial and Economic Strategy 2020-2032 (RSES)*.
- Government of Ireland *Project Ireland 2040: Building Ireland's Future*.
- Department of Culture, Heritage and the Gaeltacht (2020) *Culture 2025 – A National Cultural Policy Framework to 2025*.

- Department of Housing, Local Government & Heritage (2025) Built & Archaeological Heritage: Climate Change Sectoral Adaptation Plan 2025-2030.
- Department of Housing, Local Government & Heritage (2022) Heritage Ireland 2030: A Framework for Heritage.
- Department of Rural & Community Development & the Gaeltacht (2021) Our Rural Future - Rural Development Policy 2021-2025.

17.1.2.3 Data Sources

A range of published desk-based data sources (online and paper) were consulted for purposes of identification of all recorded archaeological, architectural and other cultural heritage sites within the Study Area. The desktop study also sought to identify any previously unrecorded features or areas of heritage significance. This research information has provided an insight into the historical development of the Study Area over time and has assisted in an evaluation of the potential presence of unrecorded archaeological, architectural and cultural heritage sites.

The SMR and the RMP for County Donegal, both published by the Archaeological Survey of Ireland (ASI), were the principal sources consulted for identifying known archaeological sites (see Appendix C17.02). The RPS and the National Inventory of Architectural Heritage (NIAH) were consulted to assess the listed architectural heritage resource (see Appendix C17.02).

The following presents an overview of the sources consulted as part of the desktop study:

- *County Donegal Development Plan 2024-2030*: this publication was extensively reviewed for the Proposed Development. It lists the buildings and structures included in the RPS (dated March 2024) and it also presents the Council's policies and objectives designed for the protection of the archaeological and architectural heritage resources within the County (see Appendix C17.01 and Appendix C17.02).
- *Archaeological Survey of County Donegal (1983)*: This publication (Lacy *et. al.* 1983) presents summary descriptions of the recorded archaeological sites within the County and the relevant entries are presented in Appendix C17.02.
- *Sites and Monuments Record (SMR) /Record of Monuments and Places (RMP)*: In addition to the Archaeological Survey of County Donegal (1983), the current national online database resources pertaining to same (the Sites and Monuments Record - SMR) were accessed via the Historic Environment Map Viewer and Heritage Maps (The Heritage Council). Summary descriptions of the recorded archaeological sites within the County and the relevant entries per the ASI online SMR/RMP records are presented in Appendix C17.02.
- *UNESCO designated World Heritage Properties and Tentative List*: UNESCO seeks to encourage the identification, protection and preservation of cultural and natural heritage around the world considered to be of outstanding value to humanity. There are two World Heritage Sites in Ireland and a number of other significant sites included in a Tentative List (2022) that has been put forward by Ireland to UNESCO for inclusion. None are located within the Study Area.
- *National Monuments in State Care List*: This database (2009) lists all archaeological sites designated as National Monuments, in State Ownership or Guardianship, within the country, and assigns a unique reference number to each site. The listing for County Donegal was consulted for assessment purposes.
- *Preservation Orders (2025)*: This listing is based on paper and digital records held by the National Monuments Service, the National Archives and the Oireachtas Library and is considered a work in progress. Preservation Orders and/or Temporary Preservation Orders can be assigned to a site that is deemed in danger of destruction.
- *Register of Historic Monuments (RHM)*: The RHM was established under section 5 of the National Monuments Act 1930 (1987 Amendment) as a means of maintaining a record of historic monuments that are afforded statutory protection. All registered monuments are included in the subsequent RMP and as such a review of the RMP has been deemed sufficient in determining identification of any such sites.

- *Northern Ireland Sites and Monuments Record (NISMR)*: The NISMR identifies all known historic monuments by location and type. To date there are over 16,500 sites identified throughout Northern Ireland. The Department for Communities: DfC:HED have responsibility, under the *Historic Monuments and Archaeological Objects (NI) Order 1995*, to compile and maintain a list of scheduled sites. The NISMR information is used to identify sites and monuments for statutory protection in the form of Scheduling (see Appendix C17.02).
- *NIAH*: The NIAH provides a comprehensive catalogue of significant architectural heritage structures within Ireland. While inclusion in the inventory does not provide statutory protection to a structure it is used to advise local authorities on compilation of their Record of Protected Structures. Relevant current national datasets were accessed and details are presented in Appendix C17.02.
- *Historic Buildings List (Northern Ireland)*: The Northern Ireland planning system has a duty towards the protection of listed buildings under *Part 4 of the Planning Act (Northern Ireland) 2011*. Furthermore, under *section 80 of the Planning Act (Northern Ireland) 2011*, the Department for Communities: Historic Environment Division (DfC:HED) is required to compile and maintain a list of buildings of special architectural or historic interest. This dataset was consulted for purposes of assessment of the N14/N15 to A5 Link Road tie-in Study Area (see Appendix C17.02).
- *Database of Irish Excavation Reports*: This database contains summary accounts of all licensed archaeological excavations carried out in Ireland (North and South) from 1969 to present. The database entries were searched for previous investigations carried out within townlands in the Study Area (see Appendix C17.02).
- *National Museum of Ireland (NMI) Topographical Files*: This archive dataset located at the NMI contains locational and summary reference details to recorded artefact finds throughout the country. The archives were accessed on 20.10.2017, 08.11.2017 and 14.05.2025.
- *Ulster Museum Topographical Files*: An archive search request was received from the Ulster Museum in October 2021 and April 2025 for townlands relevant to the N14/N15 to A5 Link Road tie-in on the southern (Northern Ireland) side of the River Finn.
- *Historical Cartographic Sources*: The detail on historical cartographic sources can indicate past settlement and land-use patterns and may also highlight the increased impact of modern developments and land improvement works. This information can aid in the identification of the location and extent of unrecorded, or partially levelled, features of cultural heritage interest, and including built features of a vernacular nature. The cartographic sources examined for the Study Area included various editions of the Ordnance Survey (OS) maps, including the first edition 6-inch and 2nd edition 25-inch maps surveyed during the 19th and early 20th centuries and published in 1837-42 and 1888-1913 respectively. In addition, the Down Survey Barony Map of Raphoe, Co. Donegal (1656-1658) was consulted.
- *Landscape Character Assessment of County Donegal (2016) and the Draft Historic Landscape Characterisation of County Donegal (2014)*: These sources were consulted in order to augment historic mapping reviews and field survey findings in the context of historic development of the landscapes presented within the Study Area.
- *Aerial imagery*: A review of OSI orthophotography (2010) and OSI Digital Globe imagery, Bing Satellite, Google Satellite and Environmental Systems Research Institute (ESRI) Satellite aerial imagery was undertaken for purposes of identifying any potential unrecorded cultural heritage sites and features as well as interpreting, where possible, recorded site extent and overall land-use within the Study Area.
- *Published reference material and cartographic/aerial sources*: Various published and unpublished sources, historical maps and aerial images were consulted in order to determine historical land-use development and the potential presence of any traces of unrecorded heritage features, and/or sub-surface archaeological sites. A list of consulted sources is provided in Section 17.10.
- *Ten-T Priority Route Improvement Project, Donegal: Phase 2, Options Selection Report (OSR)* (including Vol B Constraints Study) (Dec 2019) prepared by RPS | Barry Transportation for Donegal County Council.
- *LiDAR Data Assessment*: A desk-based assessment of low and high-resolution LiDAR project data of the Study Area was undertaken by *Archaeological Management Solutions (AMS)*. Findings and results from same have been consulted for impact assessment purpose (see Appendix C17.04).
- *Archaeological Geophysical Survey*: A programme of archaeological geophysical survey was undertaken by *Earthsound Geophysics* during May-August 2020 at selected locations throughout the Study Area (see Appendix C17.05). Results and findings from same have been consulted for impact assessment purposes.

- **Archaeological Testing Programme and Metal Detection Survey:** A programme of archaeological testing and metal detection surveys was undertaken by AMS at selected locations throughout the Study Area (see Appendix C17.06) Results and findings from same have been consulted for impact assessment purposes.
- **Site Investigations: Archaeological Monitoring Log and Results:** This report details results from on-site archaeological monitoring at areas of archaeological potential (AAP) as part of SI works across the Proposed Development (O. Egan 2021, TII, see Appendix C17.07).
- **Placenames Database of Ireland:** This online database provides a comprehensive management system for data, archival records and place names research conducted by the State. A detailed review of all townland placenames within the Study Area was undertaken in an order to evaluate recorded or potential cultural heritage significance (see Appendix C17.02).
- **Irish National Folklore Collection:** Transcribed material and relevant images from the National Folklore Collection and photographic collection archive has been digitised and published. The foundational collection - *The Irish Folklore Commission Collection 1935-1970* was inscribed into the UNESCO Memory of the World Register (2017) in recognition of its 'world significance' and 'outstanding universal value to culture'. *The Schools Collection (1937-1939)* forms part of this digitised collection (National Folklore Collection UCD Digitisation Project) and was reviewed for purposes of desktop studies (see Appendix C17.02).

17.1.2.4 Field Surveys

Field surveys conducted for purposes of evaluation and impact assessment of the Cultural Heritage resource involved a walkover survey of the proposed alignment design footprints and inspection of adjacent areas. This was informed by previous Constraints and Option Selection studies in the first instance, as well as desk-based research coupled with cognisance of findings from project surveys including non-ground intrusive archaeological geophysical surveys and ground intrusive archaeological testing surveys.

Walkover Survey

Field walkover survey of the Proposed Development footprint and Study Area was undertaken over a number of days on 8, 9 and 11 June 2020 (Section 1), 25 and 30 June, 1 July 2020 (Section 2) and 8 – 10, 16, 20 and 21 July 2020, 30 September 2021 (Section 3), 21 January 2022 (Section 1 and Section 3) and 21 September 2022 (Section 3).

Primary objectives of the walkover survey were to locate recorded cultural heritage sites (and ground-proof said recorded Irish Transverse Mercator (ITM) locations) and to verify the condition and extent (where possible) of same. In addition, field inspection facilitated an interpretation of landscape setting relevant to recorded sites and site groupings, a consideration of local topography, existing land-use and potential presence of unrecorded Cultural Heritage sites including items identified during the desk-based LiDAR assessment, aerial and historic cartographic reviews, as well as identification of AAPs. A detailed written and photographic record was taken and is presented in Appendices C17.08 to C17.13. Some areas were not accessible during walkover survey including lands on the south side of the River Finn (Northern Ireland) and the N14/N15 to A5 Link tie-in location.

Archaeological Geophysical Survey

An archaeological geophysical survey was undertaken by *Earthsound Geophysics* during May – August 2020 at selected locations within the Study Area. The geophysical survey objectives were to address gaps in the recorded archaeological database which included unknown precise locations and extent of a number of SMR/RMP sites. In addition, survey of potential archaeological monuments identified by the Option Selection Study, and subsequent archaeological assessment of LiDAR data, located within or in close proximity to the alignment corridor was undertaken.

Resistivity, magnetometry and Ground Penetrating Radar (GPR) surveys were undertaken at some or all locations ER1 – ER8 and a series of geophysical anomalies representing potential archaeological features were determined. In turn, the identified anomalies informed an archaeological testing programme at these locations.

Areas subjected to non-intrusive archaeological geophysical survey included:

- **Section 1:** ER 1 Drumboe Lower (site of Drumboe Abbey RMP DG078-005---) (resistivity, magnetometry and GPR) and ER2 Ballynaglack (potential enclosure identified from aerials at OSR) (resistivity, magnetometry)
- **Section 2:** ER3 Ballyrairie (site of 'White Fort' RMP DG053-026---) (resistivity) ER4 Trimragh (site of church and graveyard RMP DG053-028--- and DG053-028001-) (resistivity)
- **Section 3:** ER5 Carnshannagh (site of enclosure SMR DG062-024---) (resistivity, magnetometry) ER6 Murlough (site of standing stone RMP DG070-048---) (resistivity) and ER8 Curraghlane (souterrain site SMR DG070-082---) (resistivity)

The final archaeological geophysical survey report prepared by Earthsound Geophysics (2020) is presented as supporting project information at Appendix C17.05.

Archaeological Testing Programme

An on-site archaeological testing programme was undertaken by AMS during August-October 2020 at selected locations within the Study Area. The testing strategy objectives were to address gaps in the recorded archaeological database which included unknown precise locations and extent of a number of RMP sites. Trench layouts representing a >12% sampling strategy across available greenfield areas at five no. locations took the form of standard layout (centre-line with 90° offsets) for the most part, with targeted trenches also specified at locations of geophysical and LiDAR assessment anomalies at those locations. Metal detection surveys were also undertaken at these locations.

Areas subjected to intrusive archaeological testing and metal detection surveys included:

- **Section 1:** TA1 Drumboe Lower (site of Drumboe Abbey RMP DG078-005---)
- **Section 2:** TA2 Trimragh (site of church and graveyard RMP DG053-028--- and DG053-028001-)
- **Section 3:** TA3 Carnshannagh (site of enclosure RMP DG062-024---) TA4 Murlough (site of standing stone RMP DG070-048---) and TA5 Curraghlane (souterrain site SMR DG070-082---)

Testing was not carried out at geophysical survey areas ER2 Ballynaglack (aerial photographic (AP) enclosure site) (beyond alignment area footprint) or EA3 Ballyrairie (White Fort SMR DG053-026---) (highly disturbed area – heavily landscaped and in use as a bike dirt track).

As a result of the archaeological testing programme the location and extent of RMP DG078-005--- Drumboe Abbey (TA1) was confirmed. The absence of an enclosure site at Carnshannagh (TA3) (RMP DG062-024---) and the absence of a standing stone socket/associated features at Murlough (TA4) (RMP DG070-048---) was confirmed, as was the location and condition of a souterrain at Curraghlane (TA5) (SMR 070-082---).

In addition, discreet prehistoric settlement activity was noted at TA3 Carnshannagh and TA5 Curraghlane, whilst the latter also revealed an enclosing ditch at the location of the souterrain site. All of the archaeological findings have been incorporated into the impact assessment presented in Section 17.3. The final archaeological testing and metal detection survey reports prepared by AMS is presented as supporting project information at Appendix C17.6.

17.1.2.5 Historic Landscapes

To fully consider the receiving Cultural Heritage environment, a methodological approach concerning the development of the historic landscape within the Study Area has also been undertaken. This has involved a consideration of the identified Cultural Heritage receptors not only in their isolated form and type, but also how they present in the landscape in the context of grouping values (clusters of site types, contemporaneous or not), their visibility and connectivity across the landscape and any inherent and attributable setting value that may be applied.

The modern landscape presented to us today is the result of systematic natural and human interventions resulting in change and modifications over several millennia. Understanding how these processes occurred and how they present in the current landscape provides insight to the character of the area and its inter-relationship with the spatial patterns offered by the Cultural Heritage resource. By using all available tools

and datasets (Section 17.1.2.3) and with due cognisance of best practice guidance material (Section 17.1.2.2), augmented by field survey observations and interdisciplinary approaches with the Landscape and Visual consultants (Chapter 18: Landscape & Visual), an understanding of the development of the historic landscape character, in the context of the Cultural Heritage resource, has been set out. In turn, impact assessment (based on criteria set out in Section 17.1.2.6) on historic setting has been facilitated via a consideration of desk and field studies which describe the character of the immediate and wider historic landscape as well as the value, type and function of individual Cultural Heritage receptors and the potential to reveal subsurface associated features.

17.1.2.6 Cultural Heritage Impact Assessment Criteria

The EIA Directive 2011/92/EU as amended by Directive 2014/52/EU requires a description of likely significant effects of a project on the environment (Article 5(1) of 2014/52/EU). The following criteria, based on EPA (2022) and informed by UNESCO (2022) guidelines, has been applied to determine the methodology for the assessment of significance of effects on the Cultural Heritage resource. Impact assessment is achieved by a consideration of the duration, quality, type, magnitude and value of effect(s) on the Cultural Heritage resource. The determination of value has also been informed by significance criteria set out in TII Guidelines (2005a, 51 and 2025, 67) whilst the magnitude and significance of impact has also been informed by TII Guidelines (2005a, 54-55 and 2005b, 31-33 and 2025, 70-71).

Duration of Effect

The duration of effects is assessed based on the following criteria:

- Momentary (seconds to minutes)
- Brief <one day
- Temporary <one year
- Short term one-seven years
- Medium term 7-15 years
- Long term 15-60 years
- Permanent > 60 years
- Reversible: Effects that can be undone, for example through remediation or restoration

Quality of Effect

The quality of an effect on the Cultural Heritage resource can be positive, neutral or negative:

- Positive – a change which improves the quality of the Cultural Heritage resource (e.g. increasing amenity value of a site in terms of managed access, signage, presentation or high-quality conservation/restoration and re-use of an otherwise vulnerable derelict structure).
- Neutral – no change or effects that are imperceptible, within the normal bounds of variation for the Cultural Heritage environment.
- Negative – a change which reduces the quality of the Cultural Heritage resource (e.g. visual intrusion on the setting of a receptor, physical intrusion on features/setting of a site).

Type of Impact

The type of impact on the Cultural Heritage resource can be direct, indirect or no predicted impact:

- Direct – where a Cultural Heritage receptor and/or its setting, is physically located within the footprint of the Proposed Development, which will result in its complete or partial removal.
- Indirect – where a Cultural Heritage receptor and/or its setting, is located in immediate or close proximity to the footprint of the Proposed Development, and/or will result in an indirect effect due to a sequence of interrelationships or a complex pathway.
- No predicted impact – where the Proposed Development will not adversely or positively affect a Cultural Heritage receptor and/or its setting.

Magnitude of Impact

Determination of the Magnitude of the Impact is based on a consideration of character, duration, probability and consequences of the likely impact on the heritage receptor. Magnitude of Impact (degree of change) can be negative or positive and should be ranked without regard to the value of the receptor according to the following scale: Very High, High, Medium, Low and Negligible (see **Table 17-1**).

Table 17-1: Magnitude of Impact - Assessment Indicators² of the Cultural Heritage Asset

Indicative Factors for Assessing the Magnitude of Impact on the Cultural Heritage Asset	
Very High	Major alteration to, or complete loss of, a Cultural Heritage Receptor. Effects likely to be experienced at a very large scale; considered permanent and irreversible.
High	Notable long-term change to a Cultural Heritage receptor. Most key archaeological or architectural materials affected such that the resource is totally altered. Comprehensive changes to setting. Changes to most key historic landscape elements, parcels or components; adverse visual effects; fundamental changes to use or access resulting in total change to historic landscape character unit. Major changes to area that affect intangible Cultural Heritage activities or associations or visual links and cultural appreciation.
Medium	Moderate (including long-term) change to a Cultural Heritage receptor. Changes to many key archaeological or historic building materials/elements such that the resource is clearly/significantly modified. Considerable changes to setting that affect the character of the archaeological asset. Changes to the setting of a historic building, such that it is significantly modified. Change to many key historic landscape elements, parcels or components, visual change to many key aspects of the historic landscape, considerable changes to use or access, resulting in moderate changes to historic landscape character. Considerable changes to area that affect the intangible Cultural Heritage activities or associations or visual links and cultural appreciation.
Low	Minor (including medium or short term) change to a Cultural Heritage receptor Changes to key archaeological materials/historic building elements, such that the resource is slightly altered/slightly different. Slight changes to setting of an archaeological monument. Change to setting of a historic building, such that it is noticeably changed. Change to few key historic landscape elements, parcels or components slight visual changes to few key aspects of historic landscape slight changes to use or access resulting in limited change to historic landscape character. Changes to area that affect the intangible Cultural Heritage activities or associations or visual links and cultural appreciation.
Negligible	Very minor/imperceptible changes to key archaeological materials or setting. Slight changes to historic building elements or setting that hardly affect it. Very minor changes to key historic landscape elements, parcels or components virtually unchanged visual effects very slight changes to use or access resulting in very small change to historic landscape character. Very minor changes to area that affect the intangible Cultural Heritage activities or associations or visual links and cultural appreciation.

Evaluation of Cultural Heritage Value/Sensitivity

The evaluation of the Value/Sensitivity of a heritage receptor is largely based on its significance criteria, and should not be considered definitive, but rather an indicator which contributes to a wider judgment based on

² Note that this table is indicative only and to be used together with a consideration of the location, type, siting, design and layout of the proposed development.

the individual circumstances of each feature. Generally, the more criteria that is evident for a given receptor, the higher in scale its respective value shall be.

Non-exhaustive criteria to be considered in addition to any legal designations include a consideration of the condition/preservation, documentary/historical significance, group value, rarity, visibility in the landscape, fragility/vulnerability and amenity value. It is noted that, without recourse to archaeological excavation, there are limitations in determining the value or significance of sub-surface archaeological attributes (such as artefacts, human burials or other remains) for both extant and levelled sites. The Value/Sensitivity of all known or potential receptors that may be affected by the Proposed Development can be considered using a non-exhaustive range of indicators and professional judgement per Table 17-2 and ranked according to the following scale: Very High, High, Medium, Low and Negligible.

Table 17-2: Evaluation of Value/Sensitivity - Assessment Indicators³ of the Cultural Heritage Asset

Indicative Factors for Assessing Value/Sensitivity of the Cultural Heritage Asset	
Very High	<p>World Heritage Properties (including Tentative List properties) and associated individual attributes that contribute to the Outstanding Universal Value (OUV) of the property.</p> <p>Assets of acknowledged international importance, including designated buildings, historic gardens, designed landscapes and historic landscapes.</p> <p>Other designated assets of acknowledged international importance.</p>
High	<p>Designated <i>National Monuments</i> (archaeological), including Sites and Monuments with Preservation Orders/Temporary Preservation Orders.</p> <p>Designated assets of significant quality and importance, including designated RMP sites, and SMR sites.</p> <p>Designated Protected Structures and/or national importance NIAH Grade built structures, historic gardens and designed landscapes.</p> <p>Architectural Conservation Areas containing significant buildings of importance, including group value.</p> <p>Designated or undesignated Historic Landscapes of demonstrable national value (well preserved and/or significant inter-group value).</p> <p>Places or features of National intangible heritage value.</p> <p>Other designated/undesignated receptors of national and/or high quality and importance.</p>
Medium	<p>Assets of recognised quality and importance, including designated SMR/RMP sites.</p> <p>Regional Grade NIAH built structures, historic gardens and designed landscapes.</p> <p>Designated or undesignated Historic Landscapes of demonstrable regional value (well preserved and/or significant inter-group value).</p> <p>Other undesignated buildings that can be shown to have notable qualities in their fabric or historical associations.</p> <p>Undesignated structures or features of regional importance (archaeological, potential 'new' sites/areas).</p> <p>Architectural Conservation Areas containing buildings that contribute significantly to its historic character.</p> <p>Historic townscape or built-up areas with demonstrable historic integrity in their buildings or built settings (e.g. including street furniture and other structures).</p> <p>Places or features of regional intangible heritage value.</p>
Low	<p>Designated and undesignated assets of local importance, including built structures of modest quality in their fabric and/or historical association.</p> <p>Assets compromised by poor preservation and/or poor survival of contextual associations including Historic Landscapes.</p> <p>Local Grade NIAH built structures, historic gardens and designed landscapes.</p> <p>Historic Townscape or built-up areas of limited historic integrity in their buildings or built settings (e.g. including street furniture and other structures).</p> <p>Places or features of local intangible heritage value.</p>
Negligible	<p>Assets (including landscapes) with very little or no surviving Cultural Heritage interest.</p>

³ Note that this table is indicative only and to be used together with a consideration of the condition/preservation; documentary/historical significance, group value, rarity, visibility in the landscape, fragility/vulnerability and amenity value of the Cultural Heritage Asset itself on a case-by-case basis.

17.1.2.7 Significance of Effect

The Significance of the Effect is based on an assessment largely of the Magnitude of the Impact (graded from High to Negligible) and the Value/Sensitivity (graded from Very High to Negligible) of the heritage receptor.

The Significance of Effect can be described as Profound, Very Significant, Significant, Moderate, Slight, Not Significant or Imperceptible (see Table 17-3 and Table 17-4).

Table 17-3: Assessing Significance of Effect for the Cultural Heritage Resource

Significance of Effects (per EPA Guidelines 2022 and after TII Guidelines 2005a, 2005b & 2025)	
Imperceptible	An effect capable of measurement but without significant consequences. Can directly or indirectly affect the cultural heritage resource but is without noticeable consequences.
Not Significant	An effect which causes noticeable changes in the character of the environment but without significant consequences. Can directly or indirectly affect the cultural heritage resource.
Slight	An effect which causes noticeable changes in the character of the environment but without affecting its sensitivities. Can directly or indirectly affect the cultural heritage resource.
Moderate	An effect that alters the character of the environment in a manner that is consistent with existing and emerging baseline trends. Directly or indirectly affects the cultural heritage receptor but not such where the integrity of the resource is compromised.
Significant	An effect which, by its character, magnitude, duration or intensity alters a sensitive aspect of the environment. Directly or indirectly affects the cultural heritage receptor in part, with partial loss of integrity, character and data.
Very Significant	An effect which, by its character, magnitude, duration or intensity significantly alters most of a sensitive aspect of the environment. Directly or indirectly affects the cultural heritage receptor for the most part, with loss of integrity, character and data.
Profound	An effect which obliterates sensitive characteristics. Completely and irreversibly affects the cultural heritage receptor with total loss of integrity, character and data.

Table 17-4: Assessing Significance of Effect for the Cultural Heritage Resource

Significance of Effects Matrix (per EPA Guidelines 2022)						
	Very High	Slight	Moderate	Significant	Very Significant	Profound
Magnitude of Impact	High	Not Significant / Slight	Moderate / Significant	Significant / Very Significant	Very Significant	Very Significant / Profound
	Medium	Not Significant	Slight	Moderate / Significant	Significant / Very Significant	Very Significant
	Low	Not Significant / Imperceptible	Slight / Not Significant	Slight	Moderate	Moderate / Significant
	Negligible	Imperceptible	Not Significant / Imperceptible	Not Significant / Slight	Slight	Slight / Moderate
		Negligible	Low	Medium	High	Very High
Value/Sensitivity of the Cultural Heritage Asset						

17.1.3 Consultation

A number of statutory and non-statutory consultees were contacted to ascertain any commentary or observations in relation to the Proposed Development. Details of same are provided in Table 17-5. In addition, the following consultation meetings were held:

- National Monuments Service (NMS) (DHLG&H) on 21 January 2021 and on 16 April 2025. It was concurred at these meetings that the approach taken for the archaeological element of the EIAR Cultural Heritage chapter was comprehensive and aligns with required EIA guidelines and statutory processes.
- Dr Brian Lacey (Archaeologist) on 21 July 2021. The meeting discussed research-based items including Dunwiley Fort, ecclesiastical associations along River Finn, Mulhine Rd Bridge, Croaghan Hill, townland of Ballynabreen, Ballylast, and the Swilly Burn.
- Dedicated site inspection to Dunwiley Fort on 21 January 2022 facilitated an on-site consultation meeting with the landowner (John Gallinagh, member of the Gallinagh family) in relation to the archaeological context and interpretation of the site.
- Dedicated site inspection to Cavanacor House on 21 January 2022 facilitated an on-site consultation meeting with the property owner Mr Eddie O'Kane (deceased). Discussion concerning past ownerships, political and social history as well as the more recent art gallery provisions previously hosted at the house was undertaken.

Table 17-5: List of Consultees Contacted

Consultee	Feedback	Comments Addressed
Ballybofey and Stranorlar District Historical Society	No Response	N/A
Dept for Communities NI: Historic Environment Division	No Comment	N/A
DHLG&H (Built Heritage Policy Unit)	No Comment	N/A
Donegal County Council Operations	The Bypass is close to Dunwiley Fort (National Monument ⁴). Adjacent Landowners the Gallinagh Family have done a lot of research about the Fort and should be consulted.	Consultation site meeting took place 21.01.2022. See Section 17.2
Donegal Historical Society	No Response	N/A
The Heritage Council	No Comment	N/A
Letterkenny Historical Society	No Response	N/A
National Museum of Ireland / Donegal County Museum	Reference to Lough Swilly Archaeological Survey Project (1995).	See Section 17.2
Royal Irish Academy	Consideration of recorded and unrecorded Cultural Heritage resources consideration of outreach and community focused events as mitigatory measures.	See Section 17.2 & Section 17.4

⁴ Dunwiley Fort is an SMR site recorded on the Record of Monuments and Places (RMP DG078-003---) and is not designated a National Monument in ownership or guardianship by the State or Local Authority.

17.2 Existing Environment

17.2.1 Desktop Assessment

17.2.1.1 Section 1 of the Proposed Development

The Study Area forming the existing environment at Section 1 of the Proposed Development, located broadly southwest/north/northeast of the urban centres of Ballybofey and Stranorlar, has a long history of human settlement, as demonstrated by the archaeological and historical record. A baseline assessment of the existing receiving environment at Section 1 is presented in the sections that follow.

Topography and Historic Landscape

The *Landscape Character Assessment (LCA) of County Donegal* (2016, 93) describes the Study Area as located within the LCA 14 Finn Valley and “a [broad] and [level] valley of larger square agricultural fields [than those to the [west] overlooked by mountainous areas of upland bog]”. The *Draft Historic Landscape Characterisation (HLC) of County Donegal (2014)* identifies LCA 14 as characterised by ‘a patchwork of straight-sided and surveyed fields, indicating eighteenth and nineteenth century agricultural improvements’ (*ibid.* 95).

The Cark Mountain Uplands LCA 16 is located to the north/northwest of the Study Area although the south-eastern lower slopes of same are apparent, particularly to the north-easternmost portion. It is described as ‘a sparsely populated area of primarily upland mountainous blanket bog, carved by meandering rivers creating small fertile valleys of small irregular shaped fields with hedgerow boundaries. This mountainous area forms a backdrop to the towns of Letterkenny and Ballybofey-Stranorlar, and is visible due to its topography and elevation, from surrounding LCAs. More recently, the landscape has been encroached by large coniferous forestry plantations and commercial windfarms’ (*Landscape Character Assessment of County Donegal*, 2016, 100). The HLC (2014) identifies this area as ‘predominantly blanket bog and open upland heath (generic HLC-types) and suggests historically that this landscape may have been used for booleying (summer pasture) and at times of highest population pressure, some may have been brought into cultivation, using sand and seaweed although ultimately was always an area of low productivity’ (*ibid.* 101).

The area forms part of a major natural highway from the north and east of the County, through the mountainous terrain of the County’s central and southern geology, demarcating important political and territorial boundaries from early times. The area is dominated by the River Finn which forms a major west-east extending riverine network through the central portion of the Study Area, flowing north of the urban centre of Ballybofey and south of the centre of Stranorlar.

The river has excellent fishing resources, and this fertile river valley, with gently undulating hillslopes, coupled with the fact that the river is navigable towards the River Foyle and Lough Foyle, ultimately out to sea, indicates that it was an important natural resource in social, economic and political terms since earliest prehistoric times. This is represented in the wider Study Area environs by the recorded Cultural Heritage resource including a (levelled) megalithic tomb at Knockfair (RMP DG078-044---) and at least four standing stone sites at Carn (RMP DG078-027---) Creggan (RMP DG077-017---) Goland (RMP DG077-026---) and Dooish (RMP DG077-027---). Whilst none of these sites are located within the Section 1 Study Area, associated prehistoric settlements generally do not retain any above ground surface expression. As such it is likely that they exist in a sub-surface state throughout the LCA 14 and LCA 16 areas, particularly in sheltered locations with riverine/fresh water sources and fertile soils with good drainage.

Overall, the Finn Valley LCA 14 consists of “good quality agricultural riverine lands of semi-improved geometric fields, with scattered farms, farmsteads and one-off rural dwellings served by a number of rural villages and towns” (*Landscape Character Assessment of County Donegal* (2016, 93) whilst the Cark Mountain Uplands LCA 16 notes that “the tributaries of the Swilly, Finn and Deele Rivers originate in this upland area creating fertile agricultural river valleys where a scatter of one-off residential developments and farm buildings are concentrated” (*ibid.* 101). Although there are relatively few recorded archaeological sites within LCA 16, a number of ringforts and enclosures occupy the higher ground at the eastern side.

The continuous human settlement pattern from prehistoric times is reflected in the extensive spatial Cultural Heritage datasets which reflect site types dating from the early and later medieval periods such as ringforts

and enclosure settlements, with the Gaelic territory of the O'Donnell's featuring widely throughout the area. The post-medieval and modern periods are also well represented including the subsequent plantation of the region in the early 17th century and the development of designed landscapes and demesnes including Drumboe at the northern banks of the River Finn, and later at Tircallen, occupying high ground on a broad east-west extending ridge above Stranorlar. The latter includes Mullaghgarry Observation Tower RPS & NIAH 40906908 built c. 1810), while vernacular dwellings and farmsteads are scattered throughout, as well as milling operations closer to the River Finn lowlands.

Development of the urban environments of Ballybofey and Stranorlar is notable in the immediate years following the Plantation of Ulster and by 1622, a village of twelve houses and cottages were in existence at Ballybofey while Stranorlar comprised a village of ten houses and cottages (Hunter, 1995, 304). The settlements at Ballybofey and Stranorlar continued to develop during the nineteenth century, mainly due to the growth of the linen industry in the region. The *Topographical Dictionary of Ireland* records that in the 1830s Ballybofey contained 168 houses and 874 inhabitants while Stranorlar had a population of 641 and contained 116 houses (Lewis, 1837). The nineteenth century saw the connection of Stranorlar to the railway network when a standard gauge line extended from the town to a junction with the Londonderry & Enniskillen Railway (1863-1960) at Strabane.

The footprint of the Proposed Development traverses through a combination of areas of rough unimproved pasture, boggy ground, small and enclosed pockets of marginally improved pasture, with larger improved pasture fields evident at Drumboe demesne and north of Ballybofey. The proposed alignment crosses an inter-connecting tributary of the River Cloghroe to the north and the River Finn to the south. The ground rises to the north and northeast at Backlees, with pockets of commercial forestry evident at Teevickmoy at the northernmost portion, before approaching the lower river valley floor of Cloghroe River (which flows eastwards to the River Deele) at the north-easterly termination point south of Callan Bridge.

The Proposed Development extends from the existing N15 east of Stranorlar and traverses north/north-westwards linking with the N13 and the proposed mainline alignment at Dunwiley/Teevickmoy. This area is predominantly comprised of the northern banks of the River Finn valley, and riverine lowlands including the wider environs of Lough Alaun. Lands located west of the N13 rise towards the northwest and form part of the slopes of hills at Backlees and Lettermakenny and consist of a combination of improved pasture and rough boggy terrain.

Results and Analysis

The results and findings from all datasets utilised to establish a detailed baseline relevant to the Study Area for Section 1 of the Proposed Development are detailed in the sections that follow. Mapped locations of all identified cultural heritage sites and features are presented in Volume D of the EIAR with a data inventory provided in Appendix C17.02. An overview of the archaeological and historical development of the Study Area is presented in Appendix C17.03.

Recorded Archaeological Monuments

There is a total of four no. recorded SMR/RMP sites located within the 300 m wide assessment corridor relative to the centreline of the Section 1 Proposed Development, including linkages and junction areas (see Table 17-6 and Appendix C17.02). Three sites are statutorily protected by RMP site designation, whilst one is an unlocated SMR site (located during field survey), none are directly located within the design footprint of the Proposed Development: RMP DG069-023--- Bullaun Stone, RMP DG078-003--- Dunwiley Fort, RMP DG078-005---Drumboe 'abbey' site, and SMR DG078-005001- Drumboe holy well.

A further five no. recorded SMR/RMP sites have been also included due to their respective Zones of Notification (ZoNs) being location within or on the edge of the 300 m assessment corridor (see Table 17-6 and Appendix C17.02).

Table 17-6: Recorded SMR/RMP Archaeological Sites Located within the Section 1 Study Area

SMR/RMP Ref.	Type	Townland	Approx. Chainage	ITM	Approx. Distance from Edge of Proposed Alignment	Statutory Protection
DG069-023---	Bullaun Stone	Meenavoy	Ch 50 – northern terminus local road junction	615738, 899723	76 m SW	RMP
DG069-024---	Ringfort – unclassified	Meenavoy	Ch 250 – northern terminus road junction	615698, 899516	160 m NW	RMP (ZoN only within assessment corridor)
DG069-028---	Ringfort – unclassified	Teevickmoy	Ch. 7+150	615779, 898309	145 m SE	RMP (ZoN only within assessment corridor)
DG077-033---	Souterrain	Cappry	Ch. 271 – Link Rd junction area	611387, 893329	171 m SE	SMR – (ZoN only on edge of assessment corridor)
DG078-003---	Ringfort – Rath	Backlees, Dunwiley	Ch 5+200	614615, 896773	104 m SE	RMP (Dunwiley Fort)
DG078-004---	Ringfort - cashel	Dunwiley	Ch. 150 Junction area with N13	615539, 896874	166 m SE	RMP (ZoN only within assessment corridor)
DG078-005---	Church (site of)	Drumboe Lower	Ch 3+400	613389, 895443	12 m SE	RMP
DG078-005001-	Holy Well	Drumboe Lower	Ch. 3+400	613340, 895557	33 m NW	SMR
DG078-018---	Ringfort - unclassified	Mullandrait	Ch 00 Link Rd. junction area with N15	616053, 895068	135 m W	RMP (ZoN only within assessment corridor)

The probable bullaun stone (recorded as set in a rock outcrop/large boulder but not observed during field survey) RMP DG069-023--- at Meenavoy (76 m southwest of Ch. 50 – northern terminus local road junction) is located along a laneway, whilst it is also noted that 200 m to the south of the bullaun stone site is a recorded ringfort RMP DG069-024--- surviving as an oval mound, which is marginally outside the assessment corridor area (160 m northwest of Ch 250 – northern terminus local road junction).

Dunwiley Fort (RMP DG078-003---) (104 m southeast of Ch. 5+200) is a bivallate ringfort, of large proportions, sited on the summit of a hill within excellent pasture. It is revetted by a 'herring-bone' style stone wall at the north/northwest side which also forms part of the Dunwiley/Backlees townland boundary. There is little documentary evidence concerning this prominent ringfort, although Lacey (2020, 63) has referred to placename inference made by Seoirse Ó Dóchartaigh that the element 'wiley' is an anglicisation of an early Uí Dochartaigh name 'Maongalach' and 'Maongal' which would place possible Ó Dóchartaigh associations with the site in the 8th and 9th century AD, prior to their territorial movement to Inishowen from around 1350 onwards (*ibid.*). Public access to Dunwiley Fort is facilitated by the landowners via dedicated road signage and an access track adjacent to Finn Valley Nurseries.

There is another (damaged) cashel within Dunwiley townland, RMP DG078-004--- located c. 918 m east of Dunwiley Fort, which is located just outside the assessment corridor area (Ch. 150: 166 m southeast of edge of proposed alignment). Furthermore, it is noted that 1.9 km northeast of Dunwiley Fort, at Teevickmoy townland, there is the 'site of' a ringfort RMP DG069-028—. The site is described as levelled on ASI records however LiDAR assessment notes (LiDAR Ref. L-106-1) that the location maybe within the adjacent field to the southwest and measuring c. 30 m in diameter. This site is located marginally on the edge of and outside the assessment corridor (Ch. 7+150: 145 m southeast, from edge of proposed alignment).

Drumboe 'abbey' site RMP DG078-005--- (12 m southeast of ch. 3+400) is a locally referenced site, of possible early medieval origin, that retains no visible surface expression. A possible associated holy well SMR DG078-005001-, known as the 'Abbey Well' is located 107 m to the north/northwest and 33 m northwest of Ch. 3+400. In order to address gaps in knowledge in relation to site location and extent, LiDAR review together with a programme of archaeological geophysical surveying and testing was undertaken at this area.

Findings from these assessments indicate that the extent of the 'abbey' site has been defined as an enclosure site (one enclosure ditch, one linear ditch, three pits, a probable bowl furnace, three deposits (including a metallised surface) and two drains) and concurs with the record location per ASI records. Charred cereal (barley) from the upper fill of the enclosure produced a date of cal. AD 1048-1263 and suggests a likely early medieval date for the site.

No associated or additional archaeological features were identified within the remaining tested areas for the Proposed Development at Section 1. Full details of LiDAR (AMS, 2020a and 2020b), archaeological geophysical (Earthsound Geophysics, 2020) and archaeological testing results (AMS, 2022a) are presented in respective project reporting outputs in Appendix C17.04, Appendix C17.05 and Appendix C17.06.

It is noted that there is a recorded souterrain site RMP DG077-033--- just outside the assessment corridor (171 m southeast of link to N15 at Cappry) to the rear of a commercial premises at Cappry, and on the north banks of the Burn Daurnett river. It is recorded as 'Duggan's Cellar' on the 2nd edition OS map (published 1906). In addition, an unclassified ringfort (DG078-018---) on the banks of the Finn (levelled) is located just outside the assessment corridor area, 135 m west of the Proposed Development at the southern terminus area of the proposed link road at Mullandrait.

National Museum of Ireland (NMI) Artefacts: Topographical Files

A review of NMI Topographical Files provided information in relation to five no. townlands/areas almost all of which are prehistoric in nature comprising worked flints and stone axes whilst there is one example of a possible early medieval rotary quern stone retrieved from Teevickmoy (1959:34) (see Table 17-7). The prehistoric stone tools were retrieved from throughout the Study Area at Backlees, Drumboe Upper, Ballybofey and Dooish, all of which are indicative of prehistoric activity and settlement within the existing environment. In addition to the townlands, a polished stone axe was found on the banks of the River Finn, '2 miles from Ballybofey' (IA/137/2002) and a flint scraper was found from gravel near the River Finn (IA/137/2020) (precise location unknown).

Table 17-7: NMI Topographical Finds within Section 1 Study Area

Townland	NMI Ref.	Artefact Types	Notes
Backlees	1979:103:1-11	22 worked flints comprising retouched objects, cores and fragments of waste	Found in potato field
Dooish	SA1899:64	Stone axe	Polished, found in Dooish Mt
Ballybofey	1930:544	Polished stone axe	Butt end broken
Drumboe Upper	1972:212	Flint scraper	-
Teevickmoy	1959:34	Rotary quern stone	-

Summary of Previous Archaeological Excavations

A review of the Excavations Bulletin indicates that there are six no. archaeological investigations within the Study Area. These are in addition to the archaeological testing undertaken for the Proposed Development (see Section 17.2.2.1) and are summarised in Table 17-8 with further detail provided in Appendix C17.02.

Table 17-8: Previous Archaeological Excavations within Section 1 Study Area

Excavations Bulletin Ref.	Licence Ref.	ITM	Townland	Description
1999:145	98E0203	613390, 894334	Stranorlar/ Ballybofey	No archaeological significance.
2011:137	11E0068	613151, 894125	Donegal Rd, Ballybofey	No archaeological significance.
2001:275	01E0609	613662, 894341	Glenmore-Ballybofey	No archaeological significance.
2012:145	12E008	609275, 891674	Croaghonagh/ Meencargagh/ Golland/Dooish	Post-medieval (vernacular) house.
2023:367	23E0017	614375, 894782	Ballybofey	No archaeological significance.
2023:413	23E0163	614696, 895131	Stranorlar (St Joseph's Pumping Station)	Two pits, 19C section of walling

Aerial Photographic (AP) Review

A review of AP data sources (see Section 17.1.2.3) was undertaken and one no. potential AP site was identified within the Study Area (S1-AP01) during Options Selection stage (see Table 17-9). This consists of an apparent circular surface expression, visible on aerial imagery, that may indicate a potential enclosure/ringfort site. The feature is located 85 m west of local side road upgrade at Ballynaglack (mainline Ch. 00). A programme of geophysical survey was undertaken at the location (Ref. ER2 Ballynaglack) in order to aid interpretation of the potential site and whether it is likely to be anthropogenic in nature (Earthsound Geophysics, 2020). Findings from resistivity survey interpretation (*ibid.*, 36) indicate that anomaly 202, an arcing possible ditch or cut feature measuring 40 m in length, enclosing an area of 20 m in diameter matches the location of S1-AP01 with a possible pit (anomaly 201) also noted. Findings from the magnetometry survey interpretation (*ibid.*, 38) indicate that anomaly 221, an arcing possible ditch or cut feature, 14 m in length and another possibly associated arcing possible ditch or cut feature (anomaly 222), 26 m in length (both creating an enclosure ditch 16 m in diameter) also match the location of S1-AP01 together with multiple isolated magnetic anomalies (anomaly 220). Interestingly it is noted that the magnetometry anomalies 221 and 222, although they may be related, do not appear to be associated with resistivity anomaly 202.

Table 17-9: Potential Aerial Photographic Sites Located within Section 1 Study Area

AP Site ID	Type	Townland	Approx Ch.	ITM	Distance from Edge of Proposed Alignment
S1-AP01	Possible enclosure/ringfort	Ballynaglack	Ch. 00 Side Rd	613515, 895915	85 m west of link road upgrade

Analysis of Placenames

There are a total of 21 no. townlands located within the Study Area. A review of these townland placenames was undertaken for assessment purposes and is summarised in Appendix C17.02. The layout and nomenclature of the Irish townlands was recorded and standardised by the work of the Ordnance Survey in

the 19th century. The Irish translations of the townland names often refer to natural topographical features; however, some placename elements may also give an indication of the presence of past human activity within the townland.

The translations of the townland names within the Study Area mainly record topographical features, agricultural land-use and associations with past landowners. There are references in the Study Area to the early settlements of Stranorlar and Ballybofey, transport corridors (possible roadway) at Goland, designed lands at Tircallan/Mullaghagarry, as well as the fort at Dunwiley and a possible reference to the potential presence of a cashel at Castlebane townland and mythological inference at Magherapaste.

Townland Boundaries Review

Of the 21 no. townlands identified within the Study Area, there are 30 no. locations whereby the Proposed Development crosses townland boundaries, some of which are extant and are of various constructs including natural streams or rivers, ditches lined with or without earthen banks and/or mature hedge/tree-lines. Detailed below are the barony/parish/townland divisions (see Table 17-10) and boundary crossing point locations and associated descriptive notes (see Table 17-11).

Table 17-10: Baronies, Parishes and Townlands within Section 1 Study Area

Barony	Parish	Townland
Raphoe South	Stranorlar	Mullaghagarry, Ballybofey, Teevickmoy, Drumboe Upper, Creggan, Mullandrait, Dunwiley, Cappry, Meenavoy, Dooish, Ballynaglack, Tircallan, Magherapaste, Drumboe Lower, Castlebane, Backlees, Treanamullin, Ironworks, Meencargagh
Raphoe South	Convoy	Magheracorran
Raphoe South	Donaghmore	Goland

Table 17-11: Townland Boundary Crossing Points within Section 1 Study Area

Ref.	Townland Boundary	Approx. Chainage	ITM	Notes
S1-T01	Meencargagh/ Dooish	Ch. 0 (Link Rd, southern terminus)	610287, 892804	Deep drainage ditch
S1-T02	Dooish/ Cappry	Ch. 400 (Mainline and Link Rd, southern terminus)	610872, 893341 610938, 893209	Property boundary (hedge), drainage ditch
S1-T03	Cappry/ Ballybofey	Ch. 1400 (Link Rd. to N15 west of Ballybofey)	612811, 894284	Mature hedge/tree line
S1-T04	Cappry/ Ironworks	Ch. 2+400	612482, 895001	River Finn (proposed bridging point)
S1-T05	Ironworks/ Drumboe Lower	Ch. 2+450	612508, 895026	Mature tree line, N banks of River Finn
S1-T06	Drumboe Lower/ Magherapaste	Ch. 3+900	613761, 895808	Local road carriageway
S1-T07	Magherapaste/ Drumboe Upper	Link Rds x 2, Ch. 4+050	613659, 895889: 613717, 895896: 613845, 895931	Local road carriageway, boundary removed (open field) and (in part) mature tree-line/small stream
S1-T08	Drumboe Upper/ Backlees	Ch. 4+800	614252, 896575	Mature hedge/tree-line and stream

Ref.	Townland Boundary	Approx. Chainage	ITM	Notes
S1-T08a	Drumboe Upper/Dunwiley	Ch. 850 Link Rd	614248, 896187	Mature hedge/tree-line and stream
S1-T09	Backlees/Dunwiley	Link Rd, adjacent Ch. 4+850, Ch. 5+425	614291, 896559: 614668, 897024	Property boundary (mature hedge/tree-line)- ditch and hedgerow
S1-T10	Dunwiley/Teevickmoy	Ch. 6+250	615139, 897650	Ditch and mature hedgerow
S1-T10a	Teevickmoy/Tircallan	Ch. 1+350	616025, 897948	Mature hedge/tree-line
S1-T11	Teevickmoy/Meenavoy	Ch. 8+525: Ch. 300 Link Rd	615925, 899542 616082, 899728	Ditch & mature tree-lines
S1-T12	Teevickmoy/Magheracorran & terminus) and E arm, roundabout, Parish Boundary: northern terminus Stranorlar/Convoy	Ch. 8+550 (Link Rd, northern	616103, 899707 616250, 899457	Stream with mature hedge/tree line & mature hedge/tree line
S1-T13	Meenavoy/ Callan	Ch. 250 Northern Link Terminus)	616020, 899974	Cloghroe River (tree-lined banks adjacent Callan Bridge)
S1-T14	Lettermackenny/Teevickmoy	Ch. 50 Side Rd	614792, 898186	Existing road carriageway and stream with mature hedgerow
S1-T15	Teevickmoy/Dunwiley	Ch. 600 Mullandrait Link Rd.	615340, 897685	Stream with mature hedge/tree-line
S1-T16	Dunwiley/Knockfair	Ch. 1+375 Junction with N13 (link rd)	615861, 897221	N13 road carriageway, lined with mature hedgerow
S1-T17	Knockfair/Tircallen	Ch. 1+900 – 2+000 Mullandrait Link Rd.	616144, 897020	Stream and ditch, mature hedge/tree-line
S1-T18	Knockfair/Mullaghagarry	Ch. 1+700 Mullandrait Link Rd	616262, 896906 616319, 896857	Mature tree-line & laneway
S1-T19	Knockfair/ Castlebane	Ch. 2+200 Mullandrait Link Rd.	616482, 896682	Ditch and bank with mature hedge/tree-line
S1-T19a	Castlebane/Treanamullin	Ch. 350 Side rd	616671, 896205	Stream with mature tree-lined banks
S1-T20	Castlebane/Mullandrait	Ch. 3+225 Mullandrait Link Rd.	616363, 895772	Stream with mature tree-lined banks
S1-T21	Mullandrait/Treanamullin	Ch. 150 Mullandrait Link terminus (eastern side rd)	616604, 895180	Stream with mature tree-lined banks
S1-T22	Teevickmoy/Tircallen	Link Road (northern terminus area)	616024, 897949	Ditch and bank with mature hedge/tree-line

Summary Review of the National Folklore Collection

A review of *The Schools Collection (1937-1939)* indicates a number of entries of relevance to the Study Area. There are a number on entries relating to placenames that refer to translated meanings and field/land ownership, within the Ballybofey and Cappry areas. There are several detailed entries that refer to Dooish townland including that of an abbey site (p.206, Vol. 1,096), an old bridge path (p.203-05, Vol. 1,096), 'The Monk's Pond' (p.206-07, Vol. 1,096), 'The Friar's well' (p.207-08, Vo. 1,096) the 'Altar Park' (p.209, Vol. 1,096), 'Flanagan's Altar' (p.211, Vol. 1,096) and an old church site named 'Templemonaghan' (p.210, Vol. 1,096) and the cellars of 'Cox's Castle' (p.216-21, Vol. 1,096). Although located within Dooish townland, all of these sites are located outside the Study Area (at the western portion of Dooish townland).

Of relevance to the Study Area are entries included for Goland and Dunwiley townlands, as well as several entries for 'Drumboe' in relation to Drumboe Castle, the Drumboe Martyrs and the 'Abbey' site and 'Abbey' holy well. The souterrain site RMP DG077-033--- at Cappry (noted under Goland entry) is referred to as 'fairy caves' and 'Dongans Cellar' that extend for some distance between land plots, near the 'Barnesmore Road' whilst a folklore tale relating to a "little woman [with a] red cloak" is referred to in relation to Dunwiley Fort (RMP DG078-003---) located within the Study Area.

There are several folklore tales relating to Drumboe Castle, including the misfortunes of the former owners, the Hayes family, and ghostly story accounts relating to the castle and the 'west-gates'. Another account refers to the lands at Drumboe being uncultivated due to the appeasement of 'fairies' whilst a song concerning Drumboe Woods, the demesne and the former 'abbey' site is also mentioned.

The former 'abbey' site (RMP DG078-005---) and 'abbey well' (SMR DG078-005001-) are also referred in dedicated entries concerning Drumboe. The abbey site is described as a "place [with] both an ancient and modern claim to fame. Away back in the Middle Ages Drumboe was the seat of a monastery. This was long before the present castle of Drumboe was erected by an English man named Basil. The Hayes family came later and wiped out nearly all traces of Drumboe monastery. In recent times objects have been found which indicate the spot where the monks once laboured". The 'abbey well' is referred as located in the 'abbey woods' and there are folklore tales in relation to its origins. It is described as "...a holy well in Drumboe Co Donegal called the Abbey well. It is said that there was an Abbey there and that monks dwelled in the Abbey. People say that these monks are sometimes to be seen walking on the avenue that leads to the well".

Further details relating to the National Folklore Collection (The Schools' Collection 1937-39) with relevance to the Study Area are presented in Appendix C17.02.

Results of LiDAR Assessment

A total of 65 no. sites have been identified and recorded in the LiDAR data for Section 1 of the Proposed Development (Appendix C17.04a and Appendix C17.04b; AMS, 2020, 59). Of this dataset, 14 no. were already recorded (SMR sites and Option Selection stage 'new' sites) with 24 no. identified from lo-res LiDAR data and 27 from hi-res LiDAR data. Data interpretation of unrecorded LiDAR sites include a range of possible site types including possible barrows, possible enclosures, farmsteads, lime kilns, a mill pond, mill races and weirs. Of the *unrecorded* LiDAR sites, a total of 27 No. are located within the 300 m assessment corridor for Section 1 (see Table 17-12). It is noted that all newly identified LiDAR sites can only be considered *possible* archaeological sites, the cultural heritage significance of which cannot be confirmed until further archaeological investigations are carried out (AMS, 2020, 49).

Of the LiDAR anomaly sites located within the assessment corridor, a total of 11 No. are located within or immediately adjacent to the footprint of the Proposed Development. These LiDAR sites consist of three lime kilns (L106-2, L110-3 and L-110-4) two possible barrow sites (L110-1 and L-129-5), two buildings (L110-5 and L138-11), a quarry pit (L118-3) a railway line (L121-1), a mill race (L122-5) and a possible enclosure site (L123-5 which upon testing by AMS Ltd in 2020, was found to be a natural non-archaeological feature.

Table 17-12: Unrecorded LiDAR sites Identified within Section 1 300 m Assessment Corridor

Ref.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed Alignment
L101-2	Lime Kiln	Callan	Ch. 500 Link Rd Tie-in at N13 N terminus	615930, 900238	76 m W
L102-1	Barrow Possible	Callan	Ch. 572 Link Rd Tie-in at N13 N terminus	616120, 900387	114 m NE
L105-1	Enclosure Possible	Teevickmoy	Ch. 200 Link Rd	614954, 898345	62 m NW
L105-2	Pit	Teevickmoy	Ch. 250 Link Rd	614979, 898402	112 m N/NW
L105-3	Building	Lettermakenny	Ch. 200 Link Rd	614957, 898099	75 m SE

Ref.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed Alignment
L106-2	Lime Kiln	Teevickmoy	Ch. 6+700	615349, 898078	0 m (within alignment footprint see site Ref. M40 and field survey notes also)
L106-3	Farmstead	Teevickmoy	Ch. 1+150 Link Rd	615757, 897990	91 m NE (see site Ref. M46 also)
L109-1	Not archaeologically significant	Teevickmoy	Ch. 250 Side Rd	614875, 897727	94 m NW (see field survey notes also)
L110-1	Barrow Possible	Teevickmoy	Ch. 6+450	615382, 897813	0 m (within alignment footprint see field survey notes also)
L110-3	Lime Kiln	Dunwiley	Ch. 1+200	615720, 897318	8 m SW (see site Ref. M68 also)
L110-4	Lime Kiln	Dunwiley	Ch. 150 Side Rd	615637, 897141	20 m SW (see site Ref. M72 also)
L110-5	Building	Dunwiley	Ch. 1+350	615818, 897226	10 m SW (see site Ref. M71 also)
L115-1	Not archaeologically significant	Drumboe Upper	Ch. 4+300	613886, 896164	57 m NE (see field survey notes also)
L115-2	Building	Drumboe Upper	Ch. 4+400	613978, 896223	35 m NW (see OSR site Ref. S1-BH02 also)
L118-3	Quarry pit possible	Castlebane	Ch. 2+850	616385, 896077	0 m (within alignment footprint)
L121-1	Railway	Ballybofey, Cappry, Cavan Lower, Corcam, Dooish, Mullandrait, Treanamullin	Ch. 00 Link Rd tie-in	612015, 895069	11 m (attenuation pond to NW also) See site Ref. M189 also
L121-2	Weir	Cappry, Ironworks	Ch 100 Junction	611912, 895246	30 m N side of Finn riverbank (see site ref M175)
L121-3	Mill race	Ironworks	Ch 150 Junction	612025, 895193	44 m N side of Finn riverbank (see M176 and M169)
L122-5	Mill race	Ironwork -Drumboe Lower	Ch. 2+450	612507, 895065	0 m (within alignment footprint in part) see site Ref. F-1-07 also
L123-2	Enclosure Possible	Ballynaglack	Ch 00 Side Rd	613515, 895915	88 m W (see OSR site S1-AP01 also)
L123-5	Enclosure Possible [^]	Drumboe Lower	Ch. 3+475	613430, 895556	0 m (within alignment footprint but non-archaeological)
L123-6	Building	Drumboe Lower	Ch. 3+300	613310, 895374	52 m S (see site refs. M166 and F-1-13, F-1-12 also)
L129-1	Enclosure possible	Cappry	Ch. 350 Link Rd	611761, 894735	46 m W
L129-2	Building	Cappry	Ch. 200 Link Rd	611758, 894901	103 m W (see field survey notes also)
L129-5	Barrow possible	Cappry	Ch. 150 Link Rd	611913, 894941	2 m E

Ref.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed Alignment
L138-11	Building	Cappry	Ch. 271 Link Rd	611168, 893390	0 m (within attenuation pond footprint)
L141-2	Embankment	Dooish	Ch. 00 Online tie-in S terminus	610302, 892767	23 m SE

[^] Note that LiDAR anomaly L123-5 has subsequently been archaeologically tested and found to be non-archaeological in nature (AMS, 2021a).

Results of Geophysical Survey

A total of two no. areas were subject to geophysical survey along the Study Area for Section 1 of the Proposed Development (Appendix C17.05). Area ER1 is located at the site of Drumboe Abbey (RMP DG078-005---) whilst ER2 is located at the area of a possible enclosure site at Ballynaglack identified during Options Selection stage.

The site of 'Drumboe Abbey' is recorded at a location known locally as the 'Abbey Field' and marked as 'Church 'site of' on the 2nd edition OS 25-inch map. The church site is levelled, with no visible surface expression, and given both the unknown nature and extent of the site and its proximity to the proposed alignment footprint, it was considered prudent to further investigate the area. Archaeological geophysical survey results for ER1 identified a double-ditched enclosure (76 m diameter) together with possible evidence for a structure and other features (Earthsound Geophysics 2020, 61).

ER2 detected an arcing ditch which may be associated with the AP possible enclosure feature identified from orthophotography at Options Selections stage (S1-AP01) (*ibid.*).

Areas of Archaeological Potential (AAPs)

As a result of both desk and field-based assessment, a number of AAPs have been identified along Section 1 Study Area, of which four have relevance to underwater/riverine archaeological potential. A total of seven no. broad areas of potential were identified during Option Selection stage (S1-AAP01 – S1-AAP07) (RPS | Barry Transportation, 2019). Particular areas of note were further examined via research including NMI Topographical Findspots, placename evidence, LiDAR assessment and field survey. It is also noted that S1AAP-03 is outside the assessment area and has subsequently been omitted as an area of interest for the preferred alignment.

A total of seven no. AAPs were identified for Section 1 which range from wet low-lying areas, riverine locations to good quality pasture areas (see Table 17-13).

Table 17-13: Areas of Archaeological Potential (AAP) Identified in Section 1

Ref.	Type	Townland	Approx. Ch.	ITM (indicative point)
S1-AAP01	Burn Daurnett River lowlands and area SW of Ballybofey. Wet area - potential for burnt mounds - north banks of stream. Cappry & Dooish at lowlands immediately adjacent Burn Daurnett river network. Stone axe found at Dooish (NMI SA1899:64) and Ballybofey (NMI 1930:544)	Meenacargagh, Dooish, Mullanachose, Cappry	Dooish (Ch. 0+350-0+850) & Meencargagh/ Dooish Link Rd	611007, 893510
S1-AAP02	SW & NE banks of River Finn incl river crossing and Drumboe Lower (abbey site) and Ironworks (milling). Placename mythological associations with Magherapaste townland.	Ironworks, Drumboe Lower	Ch. 2+600-4+000	613065, 895384

Ref.	Type	Townland	Approx. Ch.	ITM (indicative point)
S1-AAP04	Southern slopes of ridge, well drained, good siting/vistas. Dunwiley Fort and 22 worked flints found in Backlees (NMI 1979:103:1-11)	Backlees/ Dunwiley	Ch. 5+200- 5+700	614744, 897117
S1-AAP05	Good quality pasture, forms part of S1-AAP05 Elevated field area: adjacent stream that forms townland boundary Treanamullin/Mullandrait Wet, low-lying areas. Unimproved pasture with hedge-lined ditches and whin scrub. This trend continues to the north of Cooladawson Road, where the unimproved, low-lying nature of some of the fields (between chainage 1+050 and 1+350) may suggest that some were former lakes. Placename infers a possible unrecorded cashel	Mullandrait, Castlebane, Knockfair	Ch. 3+400-3+550	616466, 895508:
			Ch. 2+800-3+150	616463, 895925
			Ch. 2+000-2+800	616525, 896542
S1-AAP06	Wet area - potential for burnt mounds - south banks of Cloghroe River. N of Stranorlar & River Finn, rising ground at Lough Alaun to Dunwiley. Rotary quern stone found at Teevickmoy (NMI 1959:34)	Teevickmoy	Ch. 8+000 - 8+550	616050, 892927
S1-AAP07	Immediately adjacent the Burn Daurnett Dooish river network. Recorded souterrain DG077-033--- within environs as well as three no. other recorded sites on the southern side of the riverbanks (a cashel, a ringfort and a standing stone).		Ch. 00 (roundabout) Ch. 400 Link Rd	611031, 893231

Underwater/Riverine archaeology

The AAPs identified for Section 1 of the Proposed Development also include lands associated with river crossings, while several townland boundary crossings also represent streams and/or drainage ditches throughout the Study Area. Of note are the rivers and banks themselves a Cultural Heritage receptor, with regard to the proposed clear span structures traversing same (see Table 17-14) which have also been identified as townland boundary crossing points (Refs. S1-T04, S1-T07 and S1-T13). It is noted that a polished stone axe (IA/137/2002) was found on the banks of the River Finn '2 miles from Ballybofey' (NMI Topographical File) and a flint scraper was found from gravel near the River Finn (IA/137/2020) (precise location unknown).

Table 17-14 Underwater Archaeology (River) receptors within Section 1 Study Area

Ref.	Name	Townland	Approx. Ch.	ITM (indicative point)
S1-R01	River Finn	Ironworks, Cappy	Ch. 2+350-2+400	612483, 895000
S1-R02	Backlees Stream	Magherapaste, Drumboe Upper	Ch. 4+100- 4+150	613886, 895997
S1-R03	Cloghroe River	Callan, Meenavoy	Ch. 0+200 – 0+300 (N arm Roundabout)	616018, 899981

Protected Architectural Heritage Structures (RPS)

A review of the Record of Protected Structures for County Donegal, per the *County Donegal Development Plan 2024-2030* indicates that there is one RPS structure located within the assessment corridor, whilst there are three sites located outside of the Study Area which have been included due to the amenity value and context of the sites (see Table 17-15). A former vernacular long-house cottage (RPS & NIAH Ref. 40907834) is located 124 m northwest of the edge of the main alignment (Ch. 4+400).

The remaining sites include a Workhouse/Famine Graveyard (RPS & NIAH Ref. 40907836) located to the rear of St Joseph's Community Hospital 410 m west of Ch. 3+400 on the N15 Link Road at Mullandrait, Stranorlar, as well as two features located within the Drumboe historic demesne: a former coach house (RPS & NIAH Ref. 40838047) located at Drumboe Woods 668 m southeast of the edge of the Proposed Development at Ch.3+300 and associated with the former (levelled) Drumboe Castle, and a memorial monument (RPS & NIAH Ref. 40838001) located 531 m southeast of Ch. 3+350, which was erected in 1953 to commemorate the 'Drumboe Martyrs' (executed 1923). Further detail relating to the RPS structures within the Study Area is presented in Appendix C17.02.

Table 17-15: RPS Structures Located within the Section 1 Study Area

RPS No.	Type	Townland	Approx. Ch. ITM	Approx. Distance from Edge of Proposed Alignment	NIAH (Y/N)
40838001	Memorial Monument	Drumboe Lower	Ch. 3+350 613636, 894999	531 m SE	Y
40838047	Former Coach House	Drumboe Lower	Ch. 3+300 613504, 894792	668 m SE	Y
40907834	Vernacular long-house	Drumboe Upper	Ch. 4+400 613895, 896285	136 m NW	Y
40907836	Workhouse/Famine Graveyard	Mullandrait	Ch. 3+400 N15 Link at Mullandrait 616012, 895514	307 m W	Y
40906908	Steeple Tower	Mullaghagarry	Ch. 1+900 N15 Link 617457, 897935	1.5 km NE	Y

National Inventory of Architectural Heritage (NIAH) structures

A review of the NIAH for County Donegal indicates that there are two no. architectural heritage structures located within the Study Area, whilst as noted above, the Workhouse/Famine graveyard, Drumboe coach-house and memorial are also recorded on the NIAH and although located outside the assessment corridor, they are included for assessment purposes (see Table 17-16). A further NIAH structure, a former mill (NIAH 40907708) is located just outside the assessment corridor although it is entirely renovated and in residential use (apartments).

The NIAH structures located within the assessment corridor consist of the vernacular long-house at Drumboe Upper as well as an outbuilding at Cappry (NIAH 40907720) located 30 m northwest of Ch. 1+900. Further detail relating to the NIAH structures located within the Study Area is presented in Appendix C17.02.

Table 17-16: NIAH Structures Located within the Section 1 Study Area

NIAH No.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed RPS (Y/N) Alignment	
40838001	Memorial Monument	Drumboe Lower	Ch. 3+350	613636, 894999	531 m SE	Y
40838047	Former Coach House	Drumboe Lower	Ch. 3+300	613504, 894792	668 m SE	Y
40907720	Outbuilding	Cappry	Ch. 1+900	612106, 894673	30 m NW	N
40907708	Corn and Sawmills	Ironworks	Ch. 2+600	612476, 895211	135 m NW	N
40907834	Vernacular long-house	Drumboe Upper	Ch. 4+400	613895, 896285	136 m NW	Y
40907836	Workhouse/Famine Graveyard	Mullandrait	Ch. 3+400	616012, N15 Link at 895514 Mullandrait	307m W	Y

Architectural Conservation Areas (ACAs)

A review of Architectural Conservation Areas per the *County Donegal Development Plan 2024-2030* indicates that there are no ACAs located within the study area.

Designed Landscapes and National Inventory of Architectural Heritage (NIAH) Historic Garden Survey Sites

A review of the NIAH Historic Garden Survey for County Donegal indicates that there are two no. historic garden demesnes located within the Study Area (see Table 17-17). These consists of the historic demesne associated with Drumboe Castle at Drumboe Lower, and Tircallen demesne at Tircallen/Mullaghagarry townlands at the northern portion of the Study Area for Section 1.

Drumboe demesne is located on the northern banks of the River Finn and originally dates to c. 1622, having been established as a result of the Ulster Plantation, and to protect a fording point on the River Finn. NIAH records describe the Drumboe demesne as a “large demesne set on a slight rise on the northern side of the River Finn on the western side of Stranorlar. Castle [RMP DG078-014---] originally established in the 17th century, to protect a ford across the river. The later Georgian house was demolished in 1945 and the site is now a carpark for Drumboe Wood, managed by Coillte”. There are associated demesne structures recorded on the RPS and NIAH built heritage record including a former coach house (Ref. 40838047), and a modern memorial monument for the so-called ‘Drumboe Martyrs’ who were executed at this location in 1923 (Ref. 40838001) and are the subject of a song ‘The Drumboe Martyrs’. Further detail regarding Drumboe demesne is presented in Appendix C17.02.

The Tircallen demesne is a large expanse located east of the northerly terminus area of Section 1. The NIAH records describe it as representing the “demesne for an early 19th century shooting lodge [NIAH Ref. 40906914], built for Henry Stewart. Set in woodland and parkland, the house is now derelict. A square stone tower observatory [Steeple Tower RPS 40906908] lies on the high ground to the northeast of the house”.

Table 17-17: NIAH Historic Gardens Located within Section 1 Study Area

NIAH Garden ID	Garden No.	Townland	Approx Ch.	ITM	Distance from Edge of Proposed Alignment	RPS / NIAH (Y/N)
DG0047	DG-12-H-138948	Drumboe Lower	Ch. 3+050 – Ch.613666, 3+900	895276 (approx. centre-point)	0 m	Y Associated demesne structures RPS / NIAH 40838047 & NIAH 40838001
DG0144	DG-12-H-163974	Tircallan / Mullaghagarry	Ch. 1+850 – Ch.617099, 2+100 N15 Link Road (Stranorlar)	897743 (approx. centre-point)	0 m	Y Associated demesne structures RPS / NIAH 40906908 & NIAH 40906914

Historic Cartographic Review

A review of the available first, second and third edition OS mapping (see Section 17.1.2.3) was undertaken with a view to identify past settlement indicators (for example vernacular buildings/farmsteads, wells, lime kilns, roads, mills and associated infrastructure) and land-use patterns (open unimproved areas or enclosed improved areas, townland boundaries/land divisions) and the identification of the location and extent of unrecorded, or partially levelled, features of Cultural Heritage interest, and including built features of a vernacular nature.

A total of 166 No. features were identified (see Appendix C17.02), of which 137 No. represent sites not previously identified via LiDAR assessment, or field survey. Of these remaining 137 No. identified historic mapping sites, 66 no. are located within or very close to the alignment footprint/Proposed Development boundary line (see Table 17-18). These consist of 17 No. vernacular structures, 30 No. lime kilns, 12 no. wells, one No. railway lines, one No. school-house/dispensary, two No. springs, one No. formal garden, one No. flax dam and one no. ford. Of these, a total of 23 No. sites are still indicated on the 3rd edition 6-inch mapping (1940s): M35, M37, M132, M146, M154-155, M160-161, M163, M165, M188, M211, M221-222, M240, M243-245, M266, M283, M286, M303 and M747 (see Table 17-18). It is possible that very partial or sub-surface remains of these undesignated vernacular features exist along the preferred alignment footprint.

Table 17-18: Cultural Heritage Historic Mapping Sites within or near to Section 1 Proposed Development Boundary

Ref. ID	Type	Townland	ITM_E	ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M34	Vernacular structure	Teevickmoy	615108	898317	Y	N	N
M35	Formal Garden	Teevickmoy	615369	898420	Y	N	Y
M36	Limekiln	Teevickmoy	614914	898165	Y	N	N
M37	Vernacular structure	Teevickmoy	615476	898208	Y	Y	Y

Ref. ID	Type	Townland	ITM_E	ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M52	Well	Teevickmoy	615239	897927	Y	N	N
M53	Vernacular structure	Teevickmoy	615220	897972	Y	N	N
M63	Limekiln	Dunwiley	614907	897490	Y	N	N
M66	Limekiln	Dunwiley	614928	897137	Y	N	N
M69	Well	Dunwiley	615802	897262	Y	N	N
M70	Vernacular structure	Dunwiley	615855	897315	Y	N	N
M83	Limekiln	Dunwiley	614319	896138	Y	N	N
M98	Vernacular structure	Castlebane	616449	896163	Y	N	N
M99	Vernacular structure	Castlebane	616403	896109	Y	N	N
M104	Well	Castlebane	616264	896034	Y	N	N
M131	Limekiln	Mullandrait	616195	895133	Y	N	N
M132	Railway line	Mullandrait	616424	895118	N	Y	Y
M134	Limekiln	Backlees	614474	896874	Y	N	N
M141	Limekiln	Drumboe Upper	614226	896472	Y	N	N
M146	Well	Drumboe Upper	614034	896223	Y	Y	Y
M149	Limekiln	Drumboe Upper	613785	896162	N	Y	N
M150	Limekiln	Drumboe Upper	614146	896140	Y	N	N
M154	Well	Drumboe Upper	613686	895894	N	Y	Y
M155	Well	Drumboe Upper	613857	896009	Y	Y	Y
M159	Limekiln	Magherapaste	613668	895811	Y	N	N
M160	Vernacular structure	Magherapaste	613686	895851	Y	Y	Y
M161	Well	Magherapaste/Drumboe	613691	895895	N	Y	Y
M163	Well	Drumboe Lower	613364	895598	N	N	Y
M165	Well	Drumboe Lower	613031	895309	Y	Y	Y
M180	Limekiln	Cappry	611861	895022	Y	N	N
M181	Limekiln	Cappry	611899	895069	Y	N	N

Ref. ID	Type	Townland	ITM_E	ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M182	Well	Cappry	611903	895085	Y	N	N
M188	Well	Cappry	612001	895040	Y	Y	Y
M203	Limekiln	Cappry	612168	894447	Y	N	N
M207	Limekiln	Cappry	612140	894539	Y	N	N
M208	Limekiln	Cappry	612077	894395	Y	N	N
M209	Limekiln	Cappry	611878	894360	Y	N	N
M211	School house/ Dispensary	Cappry	612063	894343	Y	Y	Y
M221	Well	Cappry	612132	894548	N	Y	Y
M222	Spring	Cappry	612131	894481	N	Y	Y
M223	Limekiln	Cappry	612140	894539	Y	N	N
M224	Limekiln	Cappry	611772	894651	Y	Y	N
M239	Limekiln	Cappry	611454	894135	Y	Y	N
M240	Spring	Cappry	611585	894186	N	Y	Y
M242	Limekiln	Cappry	611529	894215	Y	Y	N
M243	Vernacular structure	Cappry	611420	894138	Y	Y	Y
M244	Vernacular structure	Cappry	611512	894200	Y	Y	Y
M245	Vernacular structure	Cappry	611667	894282	Y	Y	Y
M246	Limekiln	Cappry	611039	893768	Y	N	N
M250	Vernacular structure	Cappry	611179	893895	Y	N	N
M251	Vernacular structure	Cappry	611020	893805	Y	N	N
M252	Vernacular structure	Cappry	611164	893622	Y	N	N
M263	Limekiln	Cappry	611612	894006	N	Y	N
M262	Limekiln	Cappry	611622	894014	N	Y	N
M264	Limekiln	Cappry	611209	893583	Y	N	N
M265	Limekiln	Cappry	611146	893494	Y	N	N
M266	Limekiln	Cappry	611038	893518	N	Y	Y
M267	Limekiln	Cappry	611075	893478	N	Y	N
M271	Limekiln	Cappry	611082	893367	Y	N	N
M272	Limekiln	Cappry	611022	893338	Y	N	N
M282	Limekiln	Dooish	610851	893189	Y	Y	N

Ref. ID	Type	Townland	ITM_E	ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M283	Vernacular structure	Dooish	610890	893218	Y	Y	Y
M284	Vernacular structure	Dooish	610328	892820	Y	N	N
M286	Ford	Goland	611158	893260	N	Y	Y
M300	Vernacular structure	Goland	610330	892823	Y	N	N
M303	Vernacular structure	Meencargagh	610264	892747	Y	Y	Y
M747	Flax dam	Meencargagh	610032	892757	N	Y	Y

17.2.1.2 Section 2 of the Proposed Development

The Study Area forming the existing environment at Section 2 of the proposed development, is located broadly at the elevated platform ridge at Listellian, reaching the existing N13 tie-in location at Dromore and including the link road at Ballyrairie, crossing the River Swilly and Milk Isle as well as the online upgrade of the existing N13 dual carriageway. The latter includes a major junction addition at Trimragh and local road access at Drumardagh before linking with the new Manor roundabout location. A baseline assessment of the existing receiving environment at Section 2 is presented below.

Topography and Historic Landscape

The *Landscape Character Assessment of Co. Donegal* (2016, 97) describes the Study Area as being located within LCA 15 Letterkenny Estuary and Farmland being “a wide, fertile valley of the River Swilly flowing through heath and bog covered uplands east towards Lough Swilly, a large intertidal estuary encircled by higher hills and mountains to the north and south and rolling arable lands in the east”. The *Draft Historic Landscape Characterisation of County Donegal* (2014) identifies LCA 15 as characterised by coastal lowland and soft rock and a series of fields identified as straight-sided and surveyed rectilinear fields (*ibid.*, 99), indicating eighteenth and nineteenth century agricultural improvements. Letterkenny town and its urban environs dominate much of the LCA with a considerable level of urban sprawl and residential rural housing radiating in all directions from its historic core, including at the higher ground on the northern banks overlooking the Swilly. Extensive land reclamation at the estuary flatlands and estuarine lands are notable and have been developed for commercial and retail use. The agricultural lands within the Study Area for Section 2 of the Proposed Development are for the most part, of good quality arable and pasture along the shores of the Swilly as well as the southerly and easterly greenfield areas. The area forms part of a major natural highway from the north and east of the County, through the mountainous terrain of the County’s central and southern geology, demarcating important political and territorial boundaries from early times.

The area has a long history of human settlement, as demonstrated by the archaeological and historical record. The River Swilly and its estuarine flatlands would have provided an important crossing point which resulted in human settlement within the area since earliest times. Indeed, this fertile river valley, coupled with the fact that the river is navigable north-westwards, ultimately out to sea (Lough Swilly was an important Treaty Port) indicates that it was an important natural resource in terms of social, economic and political terms since earliest times. This is demonstrated by the archaeological record with large numbers of stray prehistoric flint finds recorded from lands in the vicinity of the Swilly (Kimball (2000, *The Lough Swilly Archaeological Survey Project*), records of prehistoric rock art at Trimragh, as well as records of standing stones and a cairn on higher ground at Magheraboy and Rossbracken, and a standing stone at Pluck (National Monument Ref. 453, DG054-038---) (outside the Study Area).

The early medieval period is also represented in the form of settlements such as enclosures and ringforts, with one such site, ‘White Fort’ located at Ballyrairie (DG053-026---), and a souterrain at Lurgybrack (DG061-

005--- outside the Study Area). The site of a church and graveyard (DG053-028--- and DG053-028001-) at Trimragh have been noted by Kinahan (1886, 426) as “the site of an ancient church over which the railway to Letterkenny now runs” having probably been destroyed by the building of the railway line (now the current alignment of the existing N13).

The Battle of Farsetmore (1567) is recorded in the *Annals of the Four Masters (AFM)* (pp.1611-1617) as a humiliating defeat for the O'Neill's (led by Shane O'Neill), who attempted to gain advanced entry into O'Donnell kingdom (led by Hugh O'Donnell) via the tidal ford crossing on the Swilly at Farsetmore (outside the Study Area). The formidable terrain including the steep hill at the northern banks of the river as well as the tidal waters of the Swilly ultimately led to heavy losses for the O'Neill's and forced retreat of the army along the northern shores of the Swilly before crossing the 'Ford of Protection' at Scairbh Sholais (Scarriffhollis) at Ardahee townland (near Newmills) (Ó Brógáin, 2011).

The Letterkenny area was well established as part of O'Donnell territory during the medieval period with castellated guarding points on the southern banks of the Swilly at the fording point in Scarriffhollis (DG061-001---) and on high ground at Castlebane overlooking the fording point at Farsetmore (DG053-015---). Both locations (outside the Study Area) were site to many battles and skirmishes during the medieval period. The origins of the present-day market town date to the early seventeenth century. Following the grant of 1,000 acres to Scotsman Captain Patrick Crawford during the Ulster Plantation, it is recorded in the *1654 Civil Survey of Donegal* that there was an established fortified house and bawn, a church and a bridge (Oldtown) over the Swilly with it being noted as a “market town...consisting of 50 thatched houses whereof 13 have clay and stone walls, and one watermill” (Treadwell, 1954-5, 41). The site of the post-plantation castle and bawn appear to be located near to the site of Conwal Church of Ireland (COI) church, whereas remnants of the historic town can be located within footprint of the modern via placename evidence such as Fort Well (DG053-042003-) and Castle Garden (DG053-042001-) and Castle Street. Sir Ralph Bingley (who was granted lands at Rathmullan and later bought estate lands from absentee landlords) also established a residence in Farsetmore (possibly historic OS map review sites M394 and M395, see Appendix C17.02) and the associated settlement is noted in Pynnar's 1618-1619 Plantation Survey account as “within a mile [and] within a place which is a continual passage”, possibly at the small settlement in Dromore Lower (Hunter, 1995, 305).

In 1650 a battle was fought at Scariffhollis, on the western outskirts of Letterkenny (outside the Study Area), between the English Parliamentary Forces, led by Sir Charles Coote, and the Irish Catholic Ulster Army, led by Bishop Herber McMahon. The battle resulted in the destruction of the Ulster Army and was a major blow to the Irish armed resistance to the Cromwellian Conquest of Ireland. Despite the unrest, Letterkenny continued to develop during the eighteenth and nineteenth centuries when it expanded from a small village into a prosperous town. *The Topographical Dictionary of Ireland* (Lewis, 1837) recorded that in the 1830's the town consisted of one street with a spacious market-square, containing 416 houses with a weekly market and four fairs per year. In 1860 the Letterkenny Railway Company was incorporated by an act of Parliament. The existing N13 road is aligned with a section of the railway track in the townland of Trimragh with the old line still visible at Dromore and Magheraboy townlands.

Given the medieval and post-plantation influence, this resulted in the convergence of a number of transport networks at the important Swilly river crossing, up to the present time. There are a number of examples of architectural heritage including that of vernacular importance scattered throughout the area, in particular within the urban environs of Letterkenny town and associations with the previous railway line that facilitated transportation and communication needs of the area up to its closure in the 1960s.

The topography within the Study Area of Section 2 of the Proposed Development consists of a combination of fertile estuarine river floodplains and gently rising hillslopes of improved undulating agricultural lands, with pockets of lowland wetter ground towards the east. The offline alignment extends from Listellian at the southerly terminus, crossing an area of commercial forestry, east of the existing N13 at high ground 106 m OD traversing in a north/north-easterly fashion along the northern slopes of higher ground that falls towards the Swilly below (100 m – 40 m OD), including a crossing point across the dis-used railway line at Dromore. The Proposed Development extends from the urban fringe of Letterkenny town at Ballyraine, with a crossing point at the River Swilly, crossing along the flat low-lying estuarine lands associated with the river, including Milk Isle, before reaching the existing N56/N13 at the Port Road and largely traversing online along the existing N13 dual carriageway, with the addition of a major junction arrangement at Trimragh.

Results and Analysis

Recorded Archaeological Monuments

There is a total of four no. recorded archaeological sites located within the 300 m wide assessment corridor relative to the centreline of the proposed Section 2 of the Proposed Development, including linkages and junction areas (see Table 17-19 and Appendix C17.02). Three sites are statutorily protected by RMP site designation, with two of these directly located within the design footprint of the Proposed Development: Trimragh 'site of' church and graveyard.

A recently recorded (2023) SMR possible enclosure site (DG053-059---) is also located within the footprint of the Proposed Development at Trimragh junction. This feature was identified in the LiDAR assessment (L-212-3) and is within a general area (northern link arm of the junction, level ridge overlooking area of Farsetmore) that has also been identified as an AAP (Ref. F-2-07). However, possible enclosure SMR site was subsequently archaeologically tested in September 2025 for purposes of the project and found to be non-archaeological (see section 17.2.2.2 and Appendix C17.06f).

Note that there is a redundant SMR record relating to a possible megalithic tomb at Trimragh which has subsequently been determined by ASI to be a natural glacial erratic (DG053-052---). There is a further four no. SMR/RMP sites representing a grouping of recorded rock art, although they have been unlocated per ASI survey records and were not located during field survey. These sites are located outside the assessment corridor but inform the overall archaeological potential of the area.

Table 17-19: Recorded SMR/RMP Archaeological Sites Located within the Section 2 Study Area

SMR/ RMP Ref.	Type	Townland	Approx. Chainage	ITM	Approx. Distance from Edge of Proposed Alignment	Statutory Protection
DG053-026---	Ringfort	Ballyraine	Ch. 0+350	618900, 911715	65 m	RMP
DG053-028---	Church – site of	Trimragh	Ch. 1+450	621387, 911469	0 m	RMP
DG053-028001-	Graveyard – site of	Trimragh	Ch. 1+450	621387, 911469	0 m	RMP
DG053-059---	Possible enclosure	Drumgreggan	Ch 0+950	620852 911349	0m	SMR
DG053-052---	Redundant Record	Trimragh	n/a	621347, 911689	n/a	n/a
DG053-027001-	Rock Art	Trimragh	Ch. 1+700	621418, 911765	192 m NW of access rd	RMP
DG053-027002-	Rock Art	Trimragh	Ch. 1+700	621503, 911811	211 m N of online N13 alignment	RMP
DG053-027003-	Rock Art	Trimragh	Ch. 1+700	621520, 911825	219 m N of online N13 alignment	SMR
DG053-027004-	Rock Art	Trimragh	Ch. 1+700	621548, 911807	189 m N of online N13 alignment	SMR

The recorded ringfort at Ballyraine, DG053-026---, is marked 'White Fort' on the 1st edition OS mapping. Today, the site is levelled with only a steep sided natural mound apparent within a heavily landscaped area currently in use as a pitch and putt course/ dirt track. This area was subject to geophysical survey although findings were inconclusive due to the disturbed terrain.

The site of the church (DG053-028---) and graveyard (DG053-028001-) at Trimragh has been previously recorded by Kinahan (1886, 426) as "the site of an ancient church over which the railway to Letterkenny now runs" having probably been destroyed by the building of the railway line (now the current alignment of the existing N13). The immediate area to the south of the existing N13 consists of steeply sloping ground with thick vegetation with previous archaeological excavations in the area indicating the presence thin soils atop bedrock. In order to address gaps in knowledge in relation to potential site remains, location and extent, LiDAR review together with a programme of archaeological geophysical surveying and testing was undertaken at the new junction alignment footprint to the south of the existing N13 online alignment area.

Not all lands were conducive to archaeological geophysical survey or testing (thick vegetation in part) and not all lands were made available during the testing programme. Findings from these assessments indicate that there were no archaeological remains consistent with a church and graveyard site noted within the investigation areas. Geophysical survey identified possible pits, ditches and surfaces as well as the site of a possible flax mill (indicated on the 1st ed OS mapping – see M404 and M405, Appendix C17.02). The geophysical anomalies, save for the flax mill (untested) were evidenced to be non-archaeological via the testing programme. An isolated burnt spread (ITM 621220, 911219) and a possible coin were observed during archaeological testing and metal detection. Full details of LiDAR (AMS, 2020a and 2020b), archaeological geophysical (Earthsound Geophysics, 2020) and archaeological testing results (AMS, 2022b) are presented in respective project reporting outputs in Appendix C17.04, Appendix C17.05 and Appendix C17.06.

Note that subsequent to the archaeological testing undertaken in 2020 at Trimragh, the remaining areas not previously available at that time were tested in September 2021. No features of archaeological interest were noted (AMS Ltd., 2022b).

National Museum of Ireland (NMI) Artefacts: Topographical Files

A review of NMI Topographical Files indicated that there are no artefacts records from the townlands/areas relative to the Study Area. However, it is noted that *The Lough Swilly Archaeological Survey Project* took place in 1995 (Kimball, 2000), a field-walking survey of lands in the vicinity of Lough Swilly which uncovered hundreds of flint artefacts dating to the Neolithic period.

Summary of Previous Archaeological Excavations

A review of the Excavation Bulletin indicates that there was one no. archaeological investigation within the Study Area. This is summarised in Table 17-20 with further detail provided in Appendix C17.02. The testing programme was carried out for purposes of a single house development which was sited close to Trimragh 'site of' church and graveyard adjacent the existing N13 dual carriageway.

Table 17-20: Previous Archaeological Excavations within Section 2 Study Area

Excavations Bulletin Ref.	Licence Ref.	ITM	Townland	Description
2003:403	03E0014	621317, 911707	Trimragh	No archaeological significance.

Aerial Photographic (AP) Review

A review of AP data sources (see Section 17.1.2.3) was undertaken and no potential AP sites were identified within the Study Area for Section 2 of the Proposed Development during Options Selection stage.

Analysis of Placenames

There is a total of 20 no. townlands located within the study area for Section 2 of the Proposed Development. A review of these townland placenames was undertaken for assessment purposes and is summarised in Appendix C17.02. The layout and nomenclature of the Irish townlands was recorded and standardised by the work of the Ordnance Survey in the nineteenth century. The Irish translations of the townland names often refer to natural topographical features; however some placename elements may also give an indication of the presence of past human activity within the townland.

The translations of the townland names within the Study Area mainly record topographical features, and agricultural land-use. There are references in the Study Area to the (possibly early) medieval settlement of Ballyraine, the medieval church at Raymoghy and a possible reference to previously unknown ringforts in Listellian and Trimragh townlands.

Townland Boundaries Review

Of the 20 no. townlands identified within the study area, there are 29 no. locations whereby the Proposed Development crosses townland boundaries, some of which are extant and are of various constructs including natural streams or rivers, ditches lined with or without earthen banks and/or mature hedge/tree-lines whilst other have no surface expression due to existing modern intervention in the form of forestry plantations and road carriageways. Detailed below are the barony/parish/townland divisions (see Table 17-21) and boundary crossing point locations and associated descriptive notes (see Table 17-22).

Table 17-21: Baronies, Parishes and Townlands within Section 2 Study Area

Barony	Parish	Townland
Raphoe North	Leck	Corranagh, Drumnaoagh, Listellian, Bunnagee, Lurgybrack, Lurgy, Drumany, Knockbrack, Dromore, Farsetmore, Drumgreggan, Magheraboy, Trimragh, Drumardagh, Rossbrackan
Raphoe North	Raymoghey	Raymoghey
Kilmacrenan	Conwal	Ballyraine Milk Isle
Kilmacrenan	Aghanushin	Magheranan Glebe

Table 17-22: Townland Boundary Crossing Points within Section 2 Study Area

Ref.	Townland Boundary	Approx. Chainage	ITM	Notes
S2-T01	Listellian/ Lurgy	Ch. 0+150	619704, 907808	Mature tree/hedgerow
S2-T02	Corranagh/ Listellian	Ch. 0+500	619591, 908984	Commercial forestry at Ch. 0+500. Mature tree/hedgerow elsewhere
		Ch. 0+300 (Access Rd)	619450, 908799	
		Ch. 0+250 (Access Rd)		
			619400, 908725	
S2-T03	Corranagh/ Drumany	Ch. 0+650	619651, 909120	Commercial forestry
S2-T03a	Lurgybrack/ Corranagh	Online N13	619490, 909428	Existing N13
	Lurgybrack/ Drumany	Online N13		Existing N13
	Bunnagee/ Drumany	Online N13	619481, 910019	Existing N13
				619476, 910445

Ref.	Townland Boundary	Approx. Chainage	ITM	Notes
S2-T04	Lurgybrack/ Drumany	Ch. 0+175 (Access Rd)	619640, 909701	Coaghmill stream- ditch and bank with hedgerow
S2-T05	Drumany/ Dromore	Ch. 2+050	620084, 910439	Existing local road, on edge of mature woodland pocket
S2-T06	Drumany/ Dromore	Ch. 0+350	619851, 910653	Existing N13
S2-T07	Drumany/ Bunnagee	Ch. 00 Roundabout	619533, 910650	Existing N13
S2-T08	Drumany/ Dromore	Ch. 0+075 Link Rd	619769, 910743	Mature tree/vegetation pocket
S2-T09	Bunnagee/ Dromore	Ch. 0+250 (Link Rd) Ch. 1+300	619750, 910710 619620, 910990 619579, 911064 619522, 911138	Bank and ditch/stream with mature hedge, extends to river Swilly
S2-T10	Bunnagee/ Milk Isle	Ch. 0+950 Ch. 0+750	619329, 911316 619212, 911512	Bank/ditch along reclaimed ground near Swilly
S2-T10a	Bunnagee Ballyraine	Ch. 50 Ch. 450	619075, 911683 619039, 911719	River Swilly banks (reclaimed)
S2-T11	Dromore/ Drumgreggan	Ch. 0+400 (online) Ch. 0+800 (online)	620544, 910865 620909, 911062	Existing N13
S2-T12	Dromore/ Trimragh	Ch. 0+150 (junction link) Ch. 0+100 (junction link) Ch. 0+050 (junction link) Ch. 1+250 online Ch. 0+100 (junction link)	621261, 911073 621234, 911196 621233, 911281 621224, 911339 621217, 911447	Farsetmore stream- lined with mature trees and vegetation. Save for portion at existing N13
S2-T13	Trimragh/ Drumardagh	Ch. 2+350	622191, 911394	Online existing N13
S2-T14	Magheraboy/ Drumardagh	Ch. 2+650	622412, 911213	Online existing N13 (Trimragh stream culvert)
S2-T15	Magheraboy/ Rossbracken	Ch. 2+900	622651, 911086	Magheramore stream, lined with mature vegetation
S2-T16	Rossbracken/ Raymoghly	Ch. 3+400	623075, 910863	Online existing N13 (Leslie Hill stream culvert)

Summary Review of the National Folklore Collection

A review of The Schools Collection (1937-1939) indicates two entries of relevance to the Study Area, including that for Milk Isle and Lurgybrack townlands: a brickworks (not recorded on historic maps) is recorded at the former while there is an entry for a tradition of 'hidden treasure' in the townland of Lurgybrack.

Further details relating to the National Folklore Collection (The Schools' Collection 1937-39) with relevance to the Study Area are presented in Appendix C17.02.

Results of LiDAR Assessment

A total of 20 no. sites have been identified and recorded in the LiDAR data for Section 2 of the Proposed Development (Appendix C17.04a and Appendix C17.04b; AMS, 2020, 65). Of this dataset, 12 no. were already recorded (SMR sites and Option Selection stage 'new' sites) with four no. identified from lo-res LiDAR data and a further four no. from hi-res LiDAR data. Data interpretation of unrecorded LiDAR sites include a range of possible site types including a possible quarry pit, a possible enclosure, a well, possible cultivation ridges, a possible barrow, a farmstead, possible retting pits and a lime kiln. Of the *unrecorded* LiDAR sites, only one is located within the 300 m assessment corridor for Section 2 of the Proposed Development (see Table 17-23). It is noted that all newly identified LiDAR sites can only be considered *possible* archaeological sites, the cultural heritage significance of which cannot be confirmed until further archaeological investigations are carried out (AMS, 2020, 49).

Of the LiDAR anomaly sites located within the assessment corridor, the possible enclosure site L212-3 below a ridge on low-lying ground of the River Swilly floodplains at Drumgreggan is located within an area of archaeological potential identified during field survey (Ref. F-2-07) and is located in part within the alignment footprint (overall diameter c. 40 m). This feature has subsequently been assigned an SMR number by ASI in 2023 (DG053-059---). This possible enclosure site was archaeologically investigated in September 2025 and no archaeology was identified (see section 17.2.2.2). It is also noted that LiDAR Ref. L229-1 'Lime Kiln' cross refers to one of two lime kilns identified on the historic OS mapping review (Ref. M458 and M459) (see Appendix C17.02). The site is located outside the alignment footprint and LiDAR assessment refers to the site as a mound of 26 m in diameter and 0.8m high.

Table 17-23: Unrecorded LiDAR Sites Identified within Section 2 300 m Assessment Corridor

Ref.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed Alignment
L212-3	Enclosure Possible	Drumgreggan	Ch. 0+300 Northern Trimragh junction arm link	620852, 911348	0 m
L229-1	Lime Kiln	Listellian	Ch. 00	619532, 908307	63 m N (Online local Rd upgrade)

Results of Geophysical Survey

A total of two no. areas were subject to licenced archaeological geophysical survey investigations along the Study Area for Section 2 of the Proposed Development (Appendix C17.05). Resistivity geophysical survey was undertaken at Ballyrairie (ER3) at the area of recorded (levelled) ringfort DG053-026--- located within the grounds of a current use pitch and putt/dirt bike track. The survey area was restricted due to the on-site constraints (landscaped earthen mounds, hills, vegetation, paths tracks and fences). Two arcing possible ditches on the northern edge of the survey areas were noted to possibly be archaeological in origin, although due to the terrain, any possible features were difficult to categorise (Earthsound Geophysics 2020, 61). It is noted that this northern area is identified on historic 1st edition OS mapping as a vernacular settlement (see sites M312 and M314 in) which may account for the resistivity responses. No potential geophysical anomalies were noted to be associated with the ringfort DG053-026---.

Resistivity geophysical survey was undertaken at Trimragh, ER4, within the environs of the recorded site of a church and graveyard (DG053-028--- and DG053-028001-). Some lands were not conducive to survey due to the presence of thick vegetation. Anomalies in the form of potential pits, stone deposits and ditches were noted although extensive ploughing activity (particularly in the western area) made it difficult to ascertain if these features were archaeological or natural in origin (*ibid.*). Within the eastern area, zones of high and low resistivity were noted that may be associated with the former flax mill and related water management systems on site (*ibid.*). Archaeological testing of the western area by AMS Ltd. subsequently revealed the geophysical anomalies in this area to be natural in origin, whilst a burnt spread was also recorded at ITM

621220, 911219 (AMS Ltd, 2022b). Subsequent testing at lands not previously available was undertaken in September 2021 and no archaeological features were noted (AMS Ltd., 2022b).

Areas of Archaeological Potential (AAPs)

As a result of both desk and field-based assessment, a number of AAP have been identified along Section 2 study area. A total of three no. broad areas of potential were identified during Option Selection stage (S2-AAP01 – S2-AAP03) (RPS | Barry Transportation, 2019) although only one of these has relevance to the preferred option corridor (S2-AAP01). Particular areas of note were subsequently identified via research including NMI Topographical Findspots, placename evidence, LiDAR assessment and field survey.

A total of three no. AAPs were identified for Section 2 of the Proposed Development which range from the flatlands at the River Swilly crossing to elevated well-drained areas overlooking the Swilly at Drumany and Drumgreggan townlands (see Table 17-24).

Table 17-24: Areas of Archaeological Potential (AAP) Identified in Section 2

Ref.	Type	Townland	Approx. Ch.	ITM (indicative point)
S2-AAP01	Area of potential adjacent ringfort 'White fort' DG053-026--- Estuarian and floodplains of River Swilly at area of Milk Isle (Ref. F-2-04 Brickworks and flint artefact finds on shores of Swilly)	Ballyraine, Milk Isle	Ch. 0+150 – 0+950 Link Rd	618938, 911805
S2-AAP04	Area of elevated well-drained ground at the northern area of Drumgreggan townland Field survey F-2-07 and LiDAR enclosure L212-3/ SMR DG053-059--- on the lower floodplain area also overlooks Farsetmore fording point and location of Battle are on northern banks of Swilly within vicinity of Trimragh 'site of church and graveyard DG053-028---)	Drumgreggan	Ch. 0 – 0+550, roundabout and Ch. 00 – 0+100 and Ch. 50- 0+300 of northern Trimragh junction arm links	621081, 911333
S2-AAP05	Natural level platform area on elevated position (Ref. F-2-03) and higher ground - SE rising ridge, above River Swilly (at north) (Ref. F-2-01)	Drumany	Ch. 1+200-1+800 Ch. 0+850-1+050	619778, 909897 619747, 909427

Underwater/Riverine archaeology

The AAPs identified for Section 2 of the Proposed Development also include lands associated with the River Swilly crossing, while several townland boundary crossings also represent streams and/or drainage ditches throughout the Study Area (see Table 17-25). Of note is the River Swilly as a receptor together with its former paleochannels and estuarine lands, some of which has been reclaimed. These crossing points have also been identified as townland boundaries (S2-T10 and S2-T10a).

A proposed clear span structure shall traverse the water body of the River Swilly, with pier columns extending either side of the banks and floodplain. It is noted that the proposed scheme is online per existing N13/N14 at the Isle Burn river crossing and this location also represents townland boundary S2T-16 (Leslie Hill culvert).

Table 17-25 Underwater Archaeology (River) receptors within Section 2 Study Area

Ref.	Name	Townland	Approx. Ch.	ITM (indicative point)
S2-R01	River Swilly	Ballyrairie / Bunnagee	Ch 0+500 Ballyrairie Link Rd	619071, 911692
S2-R02	Milk Isle channels (2 No.)	Bunnagee / Milk Isle	Ch 0+750 & Ch 0+950 Ballyrairie Link Rd	619216, 911509 & 619332, 911316

Protected Architectural Heritage Structures (RPS)

A review of the Record of Protected Structures for County Donegal, per the *County Donegal Development Plan 2024-2030* indicates that there are no RPS structures located within the assessment corridor, or environs of the Study Area for Section 2 of the Proposed Development.

National Inventory of Architectural Heritage (NIAH) structures

There is a total of five no. NIAH structures recorded in the Section 2 Study Area (see Table 17-26). Of these, none are located directly within the alignment footprint. A former Church of Ireland (COI) church at Drumany is in use as offices (NIAH 40905301) and fronts the existing N13 (proposed online upgrade). A pair of houses at Dromore have been entirely renovated and modernised with no built heritage fabric remaining (NIAH 40905339). A former mill structure is recorded as local value only (NIAH 40905390) of which only a single gable end is extant together with a water wheel, and mill stones noted adjacent to the area (Section 17.2.2.2). The road over rail bridge at Dromore forms part of the Strabane-Letterkenny narrow gauge railway line (1909-1960) and there are remains of the railway line apparent to the east (Field Survey Ref. S2-BH04 Section 17.2.2.2). The road bridge at Knockbrack is a single arch bridge over the Dooballagh Burn and may remain fabric dating to c. 1800. It is sited c. 130 m southeast of the southernmost extent of Section 2 Local Road access extent in Listellian townland. Further detail relating to the NIAH structures located within the Study Area are presented in Appendix C17.02.

Table 17-26: NIAH Structures Located within the Section 2 Study Area

NIAH No.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed Alignment	RPS (Y/N)
40905301	Leck COI Church	Drumany	Existing N13 – online upgrade only	619518, 910103	18 m E of N13	N
40905339	House (Pair of)	Dromore	Ch. 0+450	620523, 910934	55 m N (online N13)	N
40905390	Mill	Dromore	Ch. 0+400	620477, 910954	77 m E/NE	N
40905394	Railway Bridge	Dromore	Ch. 2+100	619984, 910480	85 m W	N
40906111	Bridge	Knockbrack	Ch. 00	619915, 907605	130 m SE	N

Architectural Conservation Areas (ACAs)

A review of Architectural Conservation Areas per the *County Donegal Development Plan 2024-2030* indicates that there are no ACAs located within the Section 2 study area.

Designed Landscapes and National Inventory of Architectural Heritage (NIAH) Historic Garden Survey Sites

There are no surveyed NIAH Historic Garden sites or designed landscapes within the Section 2 study area.

Historic Cartographic Review

A review of the available 1st, 2nd and 3rd edition OS mapping (see Section 17.1.2.3) was undertaken with a view to identify past settlement indicators (for example vernacular buildings/farmsteads, wells, lime kilns, roads, mills and associated infrastructure) and land-use patterns (open unimproved areas or enclosed improved areas, townland boundaries/land divisions) and the identification of the location and extent of unrecorded, or partially levelled, features of Cultural Heritage interest, and including built features of a vernacular nature.

A total of 99 No. features were identified (see Appendix C17.02), of which 94 No. represent sites not previously identified via LiDAR assessment, or field survey. Of these remaining 94 No. identified historic mapping sites, 56 no. are located within or close to (< c.30 m) the edge of the Proposed Development boundary line (see Table 17-27). These consist of 14 No. vernacular structures, one No. school house, four No. lime kilns, 14 No. wells, two No. railway level crossings lines, six No. springs, five No. ponds, two No. mill ponds, one No. sluice, one No. milepost, one No. Smithy, one No. 'Stone', one No. named house, two No. mills and one No. mill race. Of these, a total of 24 No. sites are still indicated on the 3rd edition 6-inch mapping (1940s): M332, M333, M334, M338, M340, M341, M345, M349, M366, M386, M387, M393, M401, M403, M424, M438, M439, M440, M442, M443, M444, M447, M475, and M477. It is possible that very partial or sub-surface remains of these undesignated vernacular features exist along the Proposed Development footprint.

Table 17-27: Cultural Heritage Historic Mapping Sites within or near to Section 2 Proposed Development Boundary Proposed Development Boundary/Alignment Footprint

Ref. ID	Type	Townland	ITM_E	ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M312	Vernacular structure (x2)	Ballyraine	618921	911883	Y	N	N
M313	Vernacular structure (x4)	Ballyraine	618903	911711	Y	N	N
M314	Well	Ballyraine	618901	911889	Y	N	N
M330	Well	Dromore	620040	910783	Y	N	N
M332	Sluice	Dromore	620034	910811	N	Y	Y
M333	Mill pond	Dromore	620046	910793	N	Y	Y
M334	Level crossing	Dromore	620033	910714	N	Y	Y
M337	Vernacular structure	Dromore	620018	910671	Y	N	N
M338	Vernacular structure	Dromore	620005	910656	Y	Y	Y
M339	Vernacular structure	Dromore	619997	910630	Y	Y	N
M340	Milepost	Dromore	619751	910642	N	Y	Y

Ref. ID	Type	Townland	ITM_E	ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M341	Vernacular structure (Smithy)	Dromore	620041	910638	Y	Y	Y
M342	Limekiln	Dromore	620127	910657	Y	Y	N
M343	Spring	Dromore	620186	910691	N	Y	N
M344	Pond	Dromore	620249	910730	Y	N	N
M345	Spring	Dromore	620363	910847	N	Y	Y
M346	Pond	Dromore	620371	910877	Y	N	N
M349	Spring	Dromore	620555	910898	N	Y	Y
M353	Pond	Dromore	620632	910859	Y	N	N
M354	Stone'	Dromore	621075	911115	Y	N	N
M366	School house	Drumany	620156	910343	N	Y	Y
M367	Well	Drumany	620141	910337	N	Y	N
M371	House (Drum Lodge)	Drumany	620132	910355	Y	Y	N
M372	Pond	Drumany	620047	910450	Y	N	N
M379	Well	Drumany	619934	909833	Y	N	N
M380	Well	Drumany	619939	909842	Y	N	N
M381	Limekiln	Drumany	619856	909825	Y	Y	N
M384	Well	Drumany	619873	909706	Y	N	N
M385	Well	Drumany	619759	909402	Y	N	N
M386	Well	Drumany	619729	909451	N	Y	Y
M387	Vernacular structure	Drumany	619709	909472	Y	Y	Y
M391	Well	Drumgreggan	620733	911199	Y	N	N
M392	Vernacular structure	Drumgreggan	620749	911154	Y	N	N
M393	Spring	Drumgreggan	620798	911204	N	Y	Y
M398	Well	Trimragh	621851	911544	Y	N	N
M401	Vernacular structure	Trimragh	621798	911546	Y	Y	Y
M403	Level crossing	Trimragh	621421	911539	N	Y	Y
M404	Flax Mill	Trimragh	621239	911174	Y	N	N
M405	Mill pond	Trimragh	621257	911140	Y	N	N
M421	Spring	Drumardagh	622145	911576	N	Y	N
M424	Vernacular structure	Drumardagh	622393	911275	Y	Y	Y
M425	Pond	Drumardagh	622299	911232	Y	N	N
M438	Spring	Corranagh	619509	909439	Y	Y	Y
M439	Vernacular structure	Corranagh	619471	909397	Y	Y	Y

Ref. ID	Type	Townland	ITM_E	ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M440	Well	Corranagh	619450	909403	N	Y	Y
M441	Limekiln	Corranagh	619534	909181	Y	N	N
M442	Well	Corranagh	619481	909226	N	Y	Y
M443	Vernacular structure	Corranagh	619472	909182	Y	Y	Y
M444	Vernacular structure	Corranagh	619484	909194	Y	Y	Y
M446	Well	Listellian	619452	908723	Y	N	N
M447	Vernacular structure	Listellian	619492	908753	Y	Y	Y
M448	Limekiln	Listellian	619601	908575	Y	N	N
M453	Vernacular structure	Listellian	619530	908508	Y	N	N
M454	Well	Listellian	619451	908721	Y	N	N
M475	Corn Mill and Kiln	Lurgy	619833	907657	Y	Y	Y
M477	Mill Race	Lurgy	619803	907652	Y	Y	Y

17.2.1.3 Section 3 of the Proposed Development

Topography and historic landscape

The *Landscape Character Assessment of Co. Donegal* (2016) describes the Study Area as being located within LCA 12 Laggan Valley and LCA 13 Foyle Valley. Within LCA 12 (which encompasses the Study Area from the Manorcunningham roundabout to the area immediately south of Raphoe), the landscape is described as “a vast undulating agricultural landscape of good quality pasture and arable land characterised by large, geometric, hedge trimmed agricultural fields extending over a wide geographical area...often described as a ‘Plantation Landscape’, this good quality farming land was confiscated from Gaelic Lords in the early 1600s and colonised by settlers from England and Scotland as part of the wider colonisation of Ulster” (*ibid.* 86).

As planned towns and villages were established by Planters, (as evident at Manorcunningham, Raphoe and Ballindrait) and once an initial period of unrest settled after the Williamite Wars (1689-1691), there was a prolonged period of stability and economic expansion under a firmly entrenched Anglican landlord system. This new era of landscape change began, with much of it centred on the demesne and estate village and influenced by new ideas of the time concerning ‘agricultural improvement’ involving a commercialised and scientific pattern of farming, operating within a reformed and rationalised field system (Aalen et. al., 2011, 64). The material remains of the transformation of the Irish landscape over the last three centuries can be seen today in the form of enclosed fields, dispersed farms on consolidated holdings, demesnes, villages and small towns (*ibid.*, 65).

The *Draft Historic Landscape Characterisation of County Donegal* (2014) identifies LCA 12 as characterised by “a highly productive agricultural area...‘improved’ in the eighteenth and nineteenth centuries following seventeenth century plantation. It is characterised by a patchwork of [straight-sided] square fields, with hedges, and late twentieth century plantation woods and forest on higher ground. To the south of the area is the historic market town of Raphoe...[which was] an inauguration place for the Gaelic lords of the later medieval period, (with St. Eunan’s church having thirteenth century remains) and later a focus for the protestant ascendancy and the bishop held a Consistory Court in the Cathedral” (*ibid.* 88).

Within LCA 13, which encompasses the Study Area broadly from Raphoe at the north to Lifford at the south, the *Landscape Character Assessment of Co. Donegal* (2016) describes it as “characterised by undulating fertile agricultural lands with a regular field pattern of medium to large [arable and pasture] geometric fields, bound by deciduous trees and hedgerow [characteristic to this ‘plantation landscape’]. The River Foyle is an ecologically, strategically and historically (including the fishing economy) important feature in this landscape” (*ibid.* 90). The historic town of Lifford (DG071-008---), first established by a castle (DG071-008006-) built in 1527 by Maghnus O’Donnell at a strategic crossing point on the River Foyle was later granted to Sir Richard Hansard when, by 1611, the town was recorded as consisting of a settlement of twenty-one houses. Sir Hansard also established the village at Ballindrait along the River Deelee at this time. There are no traces of the original castle or its earthwork defences, or the succeeding “good and strong fort built of lime and stone” described by Pynnar’s 1618-1619 Plantation Survey account (Butlin 1977, 89), at Lifford today, although possible partial remains of town defences are noted along the banks of the River Foyle.

The *Draft Historic Landscape Characterisation of County Donegal* (2014) identifies LCA 13 as characterised by “a predominantly agricultural landscape of straight-sided and surveyed fields bounded by hedgerow. This is typical of areas that were improved during the eighteenth and nineteenth centuries as in surrounding areas. Previously, much of the Foyle valley was cultivated for a variety of crops but much of it is under grass now” (*ibid.* 92).

It is also noted that the southerly terminus area of Croghan Hill within Section 3 study area, forms the easternmost portion of LCA 14 which has relevance to Section 1. The landscape east of Ballybofey and Stranorlar, largely following the River Finn and along the existing N15 to Castlefinn, is “a fertile agricultural plain alongside the river within a wider gently undulating agricultural landscape of large square fields similar to the adjoining Laggan Valley and Foyle Valley LCAs” (*Landscape Character Assessment of Co. Donegal*, 2016, 93). The *Draft Historic Landscape Characterisation (HLC) of County Donegal* (2014) refers to this easternmost portion is characterised by “a patchwork of straight-sided and surveyed fields, indicating eighteenth and nineteenth century agricultural improvements, and the remains of a windmill at Croaghan, itself is a landmark. This landscape is overlooked by Raphoe, Beltany [Stone Circle] and Croaghan (though only the latter is within this area) and was a major route through history (now taken by the N15 road)” (*ibid.* 95).

The Study Area contains a number of predominantly prehistoric sites however a large majority of the recorded archaeological sites have been noted by the ASI as having no visible trace, which may attest to the impact of more intensive post-plantation agricultural practices and land improvement works during the eighteenth to twentieth centuries. Despite this, the environment is one of rich riverine lowlands and rolling drumlin terrain of excellent quality lands and soils.

The Study Area contains a number of important river networks, including the Corkey River at Manorcunningham, the Swilly Burn at Mullnaveagh, the River Deelee at Tyleford, and the River Finn at Lifford as well as the confluence of the Mourne, Finn and River Foyle south of Lifford town. The strategic significance of these rivers from earliest times, in terms of transport, food, political and social use, would have been fundamental to the habitation and territorial control of the area. This is demonstrated by the archaeological record, particularly the presence of a large volume of standing stone sites and a high volume of prehistoric finds from the area (stone and metal axe heads, flint tools, bronze age burials (cists) and food vessels etc.). Two late medieval battle sites have been recorded on the southern side of the River Finn (Northern Ireland) within the environs of the N14/N15 to A5 Link bridging point and tie-in to a proposed Trunk Road T3 and the A5 WTC (both in Northern Ireland). Furthermore, the successful ousting of Williamite forces by the Jacobites on 15 April 1689, both downstream on the River Finn at Clady and at the fording point at Lifford afforded the latter an early victory. This placed the Williamites on the defensive, when three days later, the Jacobites commenced the Siege of Derry (IBP, 2008). All of this activity is testimony to the strategic role that the navigable riverine environment had through to the late and post-medieval periods.

In addition to the riverine environment, there is a landscape of rolling well-drained drumlin terrain, which would have been very conducive to past human settlement. Although the overall early medieval record of ringfort/enclosure sites are not abundant within the Study Area, it is possible that later post-medieval plantation period agricultural practices may have levelled same. Previous studies undertaken by Brian Lacey (2006) highlight the significance of Croaghan Hill (located adjacent to the southern terminus of the proposed development), and the associated border lands of the Cenél Eoghain and Cenél Conaill, a much-contested area of political and territorial control during the early medieval period.

Similarly, early ecclesiastical sites are not widely distributed throughout the Study Area although the medieval church and graveyard site at Clonleigh (DG071-008001- & DG071-008003-), north-east of Lifford, does have sixth century origins and associations with the Cenél Conaill and Cenél Eoghain (Lacey, 2004), whilst a church and graveyard at Raymoghly (DG054-032---) has early ecclesiastical foundations with later and post-medieval fabric and remains.

It is likely that the present N15 road is the modern-day representation of a very ancient and important route-way that led north from Connaught, crossed the river Erne at *Áth Senaigh* (Ballyshannon), passed on through *Bernas Mór* (Barnesmore Gap), ultimately leading towards *Aileach*, Derry, Inishowen and other parts of the north of Ireland (O Lochlainn 1940, 467 cited in Lacey 2007, 112). West of the bend on the River Finn, at the foot of the Croaghan Hill ridge is the site of *Domnach Mór Maige nltha* (Lacey *et.al.* 1983, 261 2007, 112). Although there are no remaining surface traces (SMR DG079-009003-), a church allegedly founded by St. Patrick was noted by Tírechán c. 690 (Bieler 1979, 161 cited in Lacey, 2007, 112), and is also mentioned in other sources such as the *Notulae* in the Book of Armagh (*ibid.*, 180) of “no later than c. 800” (Charles-Edwards 2000, 12 cited in Lacey 2007, 112) as well as in the later *Tripartite Life* (Stokes 1887, 150-1, Lacey, 2006, 133 cited in Lacey 2007, 112).

During the sixteenth century, Lifford Castle (DG071-008006-) was to become a much-contested Gaelic fortification throughout the late medieval period. In 1593, the O'Donnell's are recorded in the *Annals of the Four Masters* (pp. 1937) as having successfully battled with the English forces and those of Turlough Luineach, the son of Niall Conallagh who were occupying to O'Donnell residence at Lifford, in order for “Hugh O'Neill to be inaugurated in his stead”.

The eighteenth and nineteenth centuries brought the development of high and low status housing and urban settlements throughout Ireland. In particular local landlords improved their estates and built residences for themselves. This is demonstrated in the environs of the proposed Study Area by several country houses such as Croaghan House and Cavanacor House as well as a series of well-built farmsteads and mill houses. The Study Area has associations with King James II and the siege of Derry, 1689. The latter demesne at Cavanacor has reference to King James II having spent some time there before marching onwards to Derry. It seems that this event ultimately saved the house from destruction as the army destroyed all remaining Protestant houses in the locality upon their retreat.

Unfortunately, as well as having some of the best land and one of the greatest concentrations of archaeological monuments in County Donegal, this area also has some of the highest rates of monument destruction. The Cenél Conaill had been driven south at the end of the eighth century, it was a highly contested region of much Gaelic lordship unrest during the later medieval period and the area was extensively colonised in the early seventeenth century, having been intensively cultivated since then.

The Study Area for Section 3 of the Proposed Development extends southeast of the Manorcunningham N13/N14 roundabout at Pluck for a distance of c.15 km (largely offline alignment) towards Lifford town, linking with the N15 to Stranorlar. The entire Study Area consists of excellent undulating agricultural land in both the 'Laggan' valley and on those lands associated with the Foyle valley to the south-east. Of good quality, well-drained terrain, the undulating landscape was subject to a number of land improvements and extensive mill-related industry within the area during the Plantation period. The Deelee River extends west/east at the southerly portion of the Study Area at Ballindrait village before joining at a confluence c. 3 km further east at the River Foyle and River Finn, east of Lifford town.

The topography within the Study Area for Section 3 of the Proposed Development consists of rolling undulating farmland, largely of a pastoral nature. The alignment extends from Pluck townland at the northerly (Manorcunningham) terminus, crossing the Corkey River, and lowlands at Labbadish, and traversing south-easterly towards gradually rising ground at Ballyholey Far (150 m OD) and Sheskinapoll (100 m OD), crossing the R236 (to Raphoe) onto lower ground interspersed with drainage and small streams including the Swilly Burn, passing through Tamnawood (65 m OD) and the Deelee River (east of Ballindrait) before skirting around the lower south-easterly slopes (70 m OD) of Croaghan Hill (184 m OD) before terminating at the N15, on the northern banks of the River Finn, south-west of Lifford.

Results and Analysis

Recorded Archaeological Monuments

There is a total of eight no. recorded RMP sites located within the 300 m wide assessment corridor relative to the centreline of Section 3 of the Proposed Development, including linkages and junction areas (see Table 17-28 and Appendix C17.02). A total of seven sites are statutorily protected by RMP site designation, with one site, DG070-082---, a souterrain at Curragalane, recorded as an SMR site upon discovery of same by the landowner (April 2019). None of the locations of recorded sites are located directly on the footprint of the Proposed Development, however, there are Zones of Notification (ZoN) associated with three sites: a cist at Labbadish (DG054-039---), an enclosure at Carnshannagh (DG062-024---) and the site of a standing stone at Murlough (DG070-048---).

There are sites that are located outside the assessment corridor but retain historic landscape setting context and inform the overall archaeological potential of the area. These include a standing stone at Pluck (DG054-038---) which has been recorded as a National Monument (Ref. 453), located on the south bank of the Isle Burn River and southwest of a side road arrangement (and outside the 300 m assessment corridor) at the Section 3 tie-in point at Manorcunningham. In addition, there is another standing stone at Carrickballydoeey (DG054-040---) sited on top of a drumlin ridge and southwest of the 300 m assessment corridor. There is a further five no. RMP sites representing a grouping of two areas located outside the 300 m assessment corridor (see Table 17-28): Raymoghly ecclesiastical site DG054-032---, DG054-032001- and DG054-032002- (church, graveyard and architectural fragment respectively) and Croaghan hill DG070-074001- and DG070-074002- (hillfort and passage tomb respectively).

Table 17-28: Recorded SMR/RMP Archaeological Sites Located within the Section 3 Study Area

SMR Ref.	Type	Townland	Approx. Chainage	ITM	Approx. Distance from Edge of Proposed Alignment	Statutory Protection
DG054-032---	Church	Raymoghly	Ch 00 Access Rd	624171, 911045	350 m NE	RMP
DG054-032001-	Graveyard	Raymoghly	Ch 00 Access Rd	624171, 911045	350 m NE	RMP
DG054-032002-	Architectural fragment	Raymoghly	Ch. 00 Access Rd	624171, 911045	350 m NE	RMP
DG054-038---	Standing stone	Pluck	Ch. 00 Access Rd	623308, 910274	254 m SW	National Monument 453
DG054-039---	Cist	Labbadish	Ch.0+650	624343, 910582	65 m N ZoN on edge of alignment	RMP
DG054-040---	Standing stone	Carrickballydoeey	Ch. 1+500	624718, 910165	169 m SW	RMP
DG062-024---	Enclosure	Carnshannagh	Ch. 8+850	628523, 904427	41 m W ZoN within alignment	RMP
DG070-032---	Standing stone (site of)	Gortin North	Ch. 0+200 Access Rd	630611, 901048	112 m NE	RMP
DG070-033---	Standing stone (site of)	Gortin North	Ch. 0+200 Access Rd	630570, 900977	66 m NE	RMP
DG070-048---	Standing stone (site of)	Murlough (Clonleigh South ed)	Ch. 15+100	631630, 899335	12 m N ZoN within alignment footprint	RMP
DG070-049---	Standing stone (site of)	Murlough (Clonleigh South ed)	Ch 15+100	631595, 899154	76 m S	RMP

SMR Ref.	Type	Townland	Approx. Chainage	ITM	Approx. Distance from Edge of Proposed Alignment	Statutory Protection
DG070-082---	Souterrain	Curraghallane	Ch. 0+200 Junction Link	632263, 897206	12 m S ZoN not allocated	SMR
DG071-005---	Standing stone – (site of)	Lifford	Ch. 16+300	632525, 898541	108 m E	RMP
DG070-074001-	Hillfort	Glensmoil, Croaghan	Ch 17+000	629887, 897450	2.5 km W	RMP PO No. 14/1987
DG070-074002-	Passage tomb	Glensmoil, Croaghan	Ch 17+000	629887, 897450	2.5 km W	RMP PO No. 14/1987

Of the three sites for which the recorded ZoNs are located within the alignment footprint, each has been subject to previous excavation or archaeological site investigations via geophysical survey and test-trenching. The cist site at Labbadish (DG054-039) was previously excavated in 1964, the enclosure at Carnshannagh (DG062-024---) and any potential sub-surface archaeological remains associated with the site of the standing stone at Murlough (DG070-048---) were determined not to be evidenced at these locations during on-site archaeological test investigations. The souterrain site at Curraghallane (DG070-082-- -) was also subject to archaeological geophysical survey and test investigations during which an associated enclosure and possible second souterrain were observed, the position of which is located immediately adjacent to the edge of the footprint of the Proposed Development. It was also noted that the recorded souterrain DG070-082--- has been partially levelled subsequent to its discovery and prior to the investigation works.

The ecclesiastical site at Raymoghly (DG054-032---, DG054-032001- and DG054-032002-) is located at the south-eastern limits of the village of Manorcunningham and is in guardianship of Donegal County Council. The site has early medieval origins and the church was significantly altered when converted to Protestant worship c. 1622, following the Plantation of Ulster.

The hillfort and passage tomb (DG070-074001- and DG070-074002-) recorded at the summit of Croaghan Hill (c. 220 m OD), c. 2.4km west of the Proposed Development and is subject to a Preservation Order (Ref. 14/1987). The hillfort (c. 85 m diameter) has banks of earth covered stone but is denuded in places, with extensive areas of rock outcropping to the interior. There is a grass covered cairn (with an OS trigonometrical pillar placed on top) to the interior of the hillfort and given its dominant position at the hill summit and its notable aspect overlooking the Kilmonaster Middle passage tomb cemetery c. 2.5 km to the west, it has been deemed that this is likely to represent a passage tomb site. The hillfort and passage tomb command extensive views and overlook the ancient territory of *Magh Itha*. It has been noted by Lacey (2006, 2007, pers. comm.) that Croaghan Hill has important mythological, archaeological and historical associations, largely due to its strategic geographical location along a bend on the River Finn and its siting within the wider environment of other notable archaeological monuments such as Kilmonaster passage tomb cemetery to the west and Beltany stone circle to the north. Ownerships of the site and territory in the early medieval period are documented to have been highly contested, to such an extent that it is likely inferences that Croaghan hillfort was a high status and possibly even royal site (*ibid.*) (see also **Section 3 Analysis of Placenames** below).

Recorded Archaeological Sites Northern Ireland (N14/N15 to A5 Link)

The location of the N14/N15 to A5 Link tie-in point on the southern side of the River Finn (Northern Ireland) retains one no. recorded archaeological site within the 300 m assessment corridor (see Table 17-29). This is a sixteenth century battle site at Carricklee (SMR TYR004:008), as described in the AFM (Vol. 5, pp.1867-1869) fought between Hugh O'Neill (Earl of Tyrone) and Turlough Luineach O'Neill on 1 May 1588. Turlough Luineach O'Neill was victorious, and the battle is described as follows:

“The Earl of Tyrone (Hugh, the son of Ferdorcha, son of Con Bacagh, son of Con) mustered a very great army to march against O'Neill (Turlough Luineach). The Earl never halted until he had crossed the Mourne

and the Derg and encamped at Carraic-liath. O'Donnell (Hugh, the son of Manus) came to join the Earl, his son-in-law, with a number of his forces, but, however, he did not come with all of them. O'Neill (Turlough) had on the other hand a great army of unanimously combined forces to oppose the Earl and O'Donnell. These were they who were with O'Neill on this occasion: Art Oge, his son, with a great number of Connaughtmen, namely Captain William Mostin, the son of Robert, with a company of soldiers a party of the Mac Sweenys of Munster, with Murrough-na-mart O'Flaherty, the son of Mulmurry, son of Donough; with many others besides them. Niall Garv O'Donnell, Hugh, the son of the Dean O'Gallagher (who was then usually styled Hugh, the son of Calvagh O'Donnell), with all the descendants of Calvagh, and their followers, joined O'Neill with one accord on this occasion. These were then in Castlefinn. Some of his people were requesting of Hugh O'Gallagher to make a nocturnal attack upon the Earl, who was then preying and plundering the country between the Rivers Finn and Mourne; but, through pride and magnanimity, he did not deem this honourable, and said that he would not at all attack an Earl in the darkness of the night, but that he would give him a fierce battle in the broad light of day. This he performed, for on the following day he attacked the Earl, and defeated him. The Earl left behind great numbers of men, horses, and spoils, on this occasion. This was on the first of May."

Table 17-29: Recorded Archaeological Sites Located within the Section 3 N14/N15 to A5 Link Study Area (Northern Ireland)

Ref.	Type	Townland	Approx. Chainage	ITM	Approx. Distance from Edge of Proposed Alignment	Statutory Protection
TYR004:003	Standing Stone (site of)	Carricklee	n/a	632795, 896882	202 m SE	SMR (NI)
TYR004:008	Battle Site (1588)	Carricklee	Ch. 0+300	632345, 896492	0m (along riverbank)	SMR (NI)
TYR004:002	Megalithic Tomb	Carricklee	n/a	632055, 896232	935 m SW	SMR (NI)
TYR004:005	Castle (possible)	Castletown	n/a	633144, 897091	522 m E	SMR (NI)
TYR004:006	AP Site	Castletown	n/a	633033, 897011	404 m E	SMR (NI)

The remaining four no. recorded archaeological sites on the southern side of the River Finn (Northern Ireland) are located outside the assessment corridor, however these provide context in terms of the historical development of the landscape over time. The prehistoric period is represented by a megalithic tomb (unclassified) (TYR004:002) and the site of a standing stone (TYR004:003). A possible castle site (TYR004:005) is noted at 'Castletown' or *Port na Trí Namad* which may refer to part of the three rivers (Finn, Mourne and Foyle) which all converge at Castletown and would have been particularly strategic location during the medieval period. There is postulation that it may have been the castle of Manus O'Donnell (NI:SMR). The site is located within an area of modern housing developments. There is also reference to an unlocated battlesite '*Port na dtrí namhad*' in 1524 between Lord Justice the Earl of Kildare (defending) and Manus O'Donnell (AFM, Vol. 5, p.1371-p.1373) that may have been at this area of the river confluence. A lozenge-shaped enclosure (TYR004:006) has been observed in a low-lying field through aerial photography and is not visible on the ground.

National Museum of Ireland (NMI) Artefacts: Topographical Files

A review of NMI Topographical Files (Table 17-30) indicated that there are eight no. townlands/areas all of which are prehistoric in nature comprising worked flints and stone axes, whilst there is one example of a bronze dagger from Ballyholey Far (1962:20) and a decorated clay-built Bronze Age pot recovered from a cist burial (RMP DG054-039---) at Labbadish (1964:25). It is also noted that *The Lough Swilly Archaeological*

Survey Project took place in 1995 (Kimball, 2000), a field-walking survey of lands in the vicinity of Lough Swilly which uncovered hundreds of flint artefacts dating to the Neolithic period.

Table 17-30: NMI Topographical Finds within Section 3 Study Area

Townland	NMI Ref.	Artefact Types	Notes
Labbadish	1964:25	Bronze Age tripartite food vessel	Found in cist grave
Carrickballydooley	1976: 10, 11	Flint plano-convex knife and human remains	Found in wall
Ballyholey Far	1962:20	Bronze dagger	
Mulnaveagh	1931:208	Polished hammerstone	Found in "The Mullan" garden
Ballindrait	P1948:187	Polished stone axe	
Ballynabreen	1972:158	Polished flint discoidal blade	Found three feet deep during drain digging
Murlough	2010C2:269-99	Collection of flints	Rev. L.M. Hewson collection
Lifford	1939:387 1992C1:3	Rubbing stone Polished stone axe Polished stone axe	1992C1:3 was found in the Belmont area

Ulster Museum Artefacts: Topographical Files

A review of the Ulster Museum Topographical Files was requested on 14.10.2021 and 25.04.2025 for townlands within the N14/N15 to A5 Link tie-in location in Northern Ireland (Carricklee and Castletown). Confirmation of no records for these townlands was provided by the Ulster Museum.

Summary of Previous Archaeological Excavations

A review of the Excavations Bulletin indicates that there were eight no. archaeological investigations within the study area, while another licenced underwater and monitoring project (at construction) was undertaken as part of the N14 Feddyglass Road Upgrade safety scheme where monitoring of the banks and river bed of the Swilly Burn Distributor channel were undertaken at a bridge in Tullyrap (no archaeology found - Licence Ref. 24E06422) (O. Egan TII Project Archaeologist pers. comm.). Further it is noted that an archaeological geophysical survey was previously undertaken (Licence Ref. 11R0119) (Earthsound, 2012) as part of impact assessment work on the N14/N15 to A5 Link. Findings from the 2012 geophysical survey indicated three oval weak anomalies (one with five possible pits) and a series of relict nineteenth century field boundaries.

The Excavations Bulletin entries are summarised in Table 17-31 with further detail provided in Appendix C17.02. The only area to record archaeological features was at Drumboy where two pits and a charcoal spread were observed during works associated with a housing development (outside the 300 m assessment corridor).

Table 17-31: Previous Archaeological Excavations within Section 3 Study Area

Excavations Bulletin Ref.	Licence Ref.	ITM	Townland	Description
2024:487	24E0106	623899, 910963	Manorcunningham/Corkey/Raymoghly	No archaeological significance.
2023:745	E005507	624169, 911049	Raymoghly	Human remains, animal bone, architectural fragments, roof slates with peg holes.

Excavations Bulletin Ref.	Licence Ref.	ITM	Townland	Description
2016:203 & 2016:876	16E0594	630410, 899781	Ballindrait / Tieveboy	No archaeological significance.
2010:185	10E0327	632512, 899141	Drumboy	Two pits and a charcoal spread
2004:0400	04E0529	623972, 909436	Labbadish	No archaeological significance.
2024:168	24E0369	632800, 899000	Lifford Common	No archaeological significance.
2024:316	24E0391	633445, 898422	Lifford	No archaeological significance.
2023:193	23E0555	630422, 895876	Lifford to Castlefin Greenway, N15	No archaeological significance.
2022:450	22E0897, 22R0405	628884, 894083	Lifford to Castlefin Greenway, N15	No archaeological significance.
2022:920	22D0020, 22R0081	633686, 898462	River Foyle, Lifford	Two logboat fragments.
2004:0401	04E0092	633047, 898454	Lifford	No archaeological significance.
2004:0402	04E0093	633047, 898454	Lifford	No archaeological significance.
2012:150	12E187	633047, 898454	Lifford	No archaeological significance.
2018:079	17E0598	633495, 898486	Lifford	No archaeological significance.
2003:415	03E1600	633047, 898454	Lifford	No archaeological significance.

Aerial Photographic (AP) Review

A review of AP data sources (see Section 17.1.2.3) was undertaken and one no. potential AP site was identified within the Study Area (S3-AP01) during Options Selection stage (see Table 17-32). This consists of an apparent circular surface expression, visible on aerial imagery, that may indicate a potential enclosure/barrow site. The feature is located 217 m west of the main alignment at Dromore Big (mainline Ch. 9+000). It is noted that enclosure site DG062-024--- at Carnshannagh is recorded as located c. 170 m northeast of the AP site, although archaeological testing at that area did not reveal any archaeological indications of an enclosure/ringfort site (see Section 17.2.2.3).

Table 17-32: Potential Aerial Photographic Sites located within Section 3 Study Area

AP Site ID	Type	Townland	Approx Ch.	ITM	Distance from Edge of Proposed Alignment
S3-AP01	Possible enclosure/barrow	Dromore Big	Ch. 9+000	628379, 904297	217 m W

Analysis of Placenames

There is a total of 51 no. townlands located within the Study Area for Section 3 of the Proposed Development. A review of these townland placenames was undertaken for assessment purposes and is summarised in Appendix C17.02. The layout and nomenclature of the Irish townlands was recorded and

standardised by the work of the Ordnance Survey in the nineteenth century. The Irish translations of the townland names often refer to natural topographical features; however, some placename elements may also give an indication of the presence of past human activity within the townland.

The translations of the townland names within the Study Area for Section 3 of the Proposed Development mainly record topographical features and agricultural land-use. There are references in the Study Area to the early settlements of Lifford and Ballindrait whilst those with archaeological inference include 'glebe' lands (specifically for clergymen of a parish), the medieval church of Raymoghly (*Teampall Rátha*), Drumatoland (possible settlement) and Drumcarn (*Droim Chairn*, 'ridge of the cairn'). Lacey (pers. comm.) notes that Mulhine road bridge, on the existing N14, bridging the River Deelee northwest of Lifford town, may also infer an early medieval ecclesiastical association with *Teach Mó Fhinniú* or the church of an abbot Mó Fhinn which is mentioned in the annals. He also notes that Ballylast townland, along the River Finn and below Croaghan hill (outside of the Study Area) may refer to the Irish '*lasta*' meaning cargo, and reference to this area having been a port given the navigable nature of the River Finn right up to Clady bridge (Co. Tyrone).

There are also townland names outside of the Study Area that Lacey (2006, 2007) has reviewed and provided explanation for their origin which places the historical associations of the Study Area as a whole in context from early medieval times.

Cruachán Droma Lighen (Croaghan Hill) is significantly the place where *Conall Gulban* is said in the *Echtra Conaill Gulbain*, to have finally defeated the *Ulaid*, the alleged 'pre *Uí Néill*' rulers of Donegal. Lacey (2006, 139) traces the folklore associated with the area: '...after successfully fighting a whole series of battles all around Donegal, Conall and his brothers made their final stand against the *Ulaid* at *Cruachán Droma Lighen*. Conall was wounded from his previous encounters with the *Ulaid* and, initially, could not take part in the battle. However, when his brothers, Cairpre, Énna and Eoghan, exhausted from all their previous battles, seemed as if they were to be defeated, Conall rose dramatically from his sickbed and gained victory for the *Uí Néill*. As a result of his success, Conall was permitted to divide up the territory of Donegal among the brothers and, he did so from the top of *Cruachán Droma Lighen*, and thus determined the geography of its 'future' political affairs'.

Lacey (2007, 114) notes that the name *Druim Lighen* is now preserved in that of Drumleene townland, which is c. 4 km north of the Croaghan Hill ridge on the north side of the river Deelee. The townland comprises the northern side of a large hill otherwise known as Dromore. This separation in modern times of Drumleene and Croaghan Hill seems problematical however, an ancient *Druim Lighen* 'estate' may have originally stretched from the present townland southwards, so as to include the whole of Dromore Hill and the Croaghan Hill ridge (*ibid.*). The area would have been linked by a predecessor of the road, which, today, extends from Drumleene to the foot of Croaghan Hill, crossing the Deelee at Ballindrait (*Baile an Droichid*) (*ibid.*). This road passes, at its southern end, the townland of Ballynabreen. This townland would have been within Cenél Conaill territory in the 640s and the suggestion that it may have had some royal connections is further strengthened by the name of which may be derived from *Baile na Bruidhean*, "place of the hostel or banqueting house" (2006, 140). Drumleene is also believed to have been the birthplace of the two sons of Niall Nóigiallach, Conall and Eógan - the eponyms of the Cenél Conaill and Cenél nÉogain, the peoples of whom dominated Donegal throughout the early medieval period and who, collectively, were labelled the "Uí Néill of the North" (2007, 114).

The townland of Drumleene is bordered on its northern side by the Swilly Burn, which runs into the Foyle c. 6.5 km north of Lifford and was (and still is) itself a major physical boundary. It differentiates between the parishes of Taughboyne and Clonleigh and is the boundary between the diocese of Derry and the diocese of Raphoe, the origins of which date back to the twelfth century (*ibid.*, 115). In the early seventeenth century the Swilly Burn was also used at the time of the Plantations as the boundary between the English precinct of Lifford and the Scottish precinct of Portlough (*ibid.*).

Townland Boundaries Review

Of the 51 no. townlands identified within the Study Area there are 47 no. locations whereby the proposed alignment crosses townland boundaries, some of which are extant and are of various constructs including natural streams or rivers, ditches lined with or without earthen banks and/or mature hedge/tree-lines. Detailed below are the barony/parish/townland divisions (see Table 17-33) and boundary crossing point locations and associated descriptive notes (see Table 17-34).

Table 17-33: Baronies, Parishes and Townlands within Section 3 Study Area

Barony	Parish	Townland
Raphoe North	Raymoghgy	Carrickballydooley Glebe, Corkey, Raymoghgy, Glebe (Manorcunninghan ED) Labbadish, Carrickballydooley, Drumcarn, Tullybogly, Drumoghill, Mondooley Lower, Mondooley Middle, Woodhill, Castledowey, Sheskinapoll, Drumatoland
Raphoe North	Raphoe	Ballyholey Far, Doorabble, Slievebuck, Broadlea
Raphoe North	Taughboyne	Dromore Big, Dromore Little, Drumfad, Carrickdawson, Drumbeg, Carnshannagh, Tullyrap, Feddyglass
Raphoe North	Clonleigh	Guystown, Mass Beg, Sheercloon, Mulnaveagh, Gortin North, Ballindrait, Birdstown, Tamnawood, Ballynabreen, Moneen, Cavanacor, Leggandorragh, Portinure, Curraghalane, Murlough, Tyleford, Carricknaslate, Lifford Common, Rossgeir, Drumboy, Town Parks, Coneyburrow, Lifford
Strabane Lower	Urney	Carricklee

Table 17-34: Townland Boundary Crossing Points within Section 3 Study Area

Ref.	Townland Boundary	Approx. Chainage	ITM	Notes
S3-T01	Raymoghgy/Glebe	Ch. 0+200	623589,910669	Mature hedgerow
S3-T02	Glebe/Raymoghgy	Ch. 0+300	623712,910627	Mature hedgerow/tree plantation
S3-T03	Raymoghgy/ Labbadish	Ch. 0+700	624099,910550	Pluck stream with hedgerow
S3-T04	Labbadish/ Raymoghgy	Ch. 1+100	624467,910470	Pluck stream with hedgerow
S3-T05	Raymoghgy/ Carrickballydooley	Ch. 1+200	624605,910429	Mature hedgerow
S3-T06	Carrickballydooley/ Carrickballydooley Glebe	Ch. 1+800	625105,910196 625114,910241	Mature hedgerow
S3-T07	Carrickballydooley Glebe/ Tullybogly	Ch. 1+800	625133,910172 625238,910173	Local road line with mature hedgerow and trees (incl 'Fairy Tree' possible F-3-03)
S3-T08	Tullybogly/ Drumoghill	Ch. 2+000	625308,910069	Pluck stream , mature tree line (also location of former flax mill M529, weir M533 and sluice M534)
S3-T09	Drumoghill/ Drumcarn	Ch. 2+600	625627,909615	Stream and mature tree line (location of tree plantation F-3-05 located on N bank of stream)
S3-T10	Drumcarn/Mondooley Lower	Ch. 3+200	625693,909067	Stream/ditch and hedgerow
S3-T11	Mondooley Lower/Mondooley Middle	Ch. 4+100	626256,908358	Stream, lined with hedgerow
S3-T12	Mondooley Middle/Doorabble	Ch. 4+500	626621,908259	Stream, lined with mature hedgerow
S3-T13	Doorabble/Ballyholey Far	Ch. 4+800	626941,908063	Hedgerow
S3-T14	Drumatoland/ Sheskinapoll	Ch. 5+900	627397,907130	Hedgerow

Ref.	Townland Boundary	Approx. Chainage	ITM	Notes
S3-T15	Sheskinapoll/ Ballyholey Far	Ch. 6+550	627669,906538	Stream and hedgerow/tree growth
S3-T16	Sheskinapoll/ Slievebuck	Ch. 6+550	627761,906530	Stream and hedgerow/tree growth
S3-T17	Sheskinapoll/ Ballyholey Far	Ch. 6+600	627696,906487	Ditch/hedgerow (including general area of F-3-08 AAP)
S3-T18	Slievebuck/ Carrickadawson	Ch. 7+450	628072,905735	Stream and hedgerow (including general area of F-3-10 AAP)
S3-T19	Carrickadawson/ Dromore Big	Ch. 7+850	628250,905358	Tree line/plantation at rear of vernacular structure M628
S3-T20	Dromore Big/ Carnshannagh	Ch. 8+200	628363,905080	Marginal ground/field boundary (including general area of F-3-11 AAP)
S3-T21	Dromore Big/ Carnshannagh	Ch. 0+450 side road	628352,904952	Hedgerow/fronting existing N14 road
S3-T22	Carnshannagh/ Dromore Little	Ch. 9+300 & Ch. 0+500 side road	628826,904068 628756,904067 629052,903867	Stream, tree-lined, mature hedgerow
S3-T23	Drumbeg/Drumfad	Ch. 9+700	629059,903771	Ditch and hedgerow
S3-T24	Carnshannagh/ Drumfad	Ch. 0+800 side road	629212,903626	Stream, tree-lined
S3-T25	Drumfad/Feddyglass	Ch. 10+000	629255,903460	Stream, tree-lined
S3-T26	Tullyrap/Feddyglass	Ch. 10+200	629307,903355	Stream, tree-lined
S3-T27	Tullyrap/Feddyglass	Ch. 10+400	629382,903146	Stream, mature tree growth. Area of former mill, millrace, sluice etc. M672-674 L-338-1
S3-T28	Tullyrap/Broadlea	Ch. 11+050	629464,902486	Mature hedgerow
S3-T29	Broadlea/Mulnaveagh	Ch. 11+500	629462,902064	Swilly Burn- also Taughboyne/Clonleigh Parish boundary
S3-T30	Mulnaveagh/ Mass Beg	Ch. 11+600	629484,901942 629554,901864	Stream/commercial forestry plantation
S3-T31	Mass Beg/ Sheercloon	Ch. 11+950	629615,901635 629642, 901701	Stream, ditch, commercial forestry plantation
S3-T32	Sheercloon/Gortin North	Ch. 12+400	629926,901307	Hedgerow
S3-T33	Tamnawood/ Ballindrait	Ch. 13+600	630718,900408	Mature hedgerow
S3-T34	Ballindrait/Cavanacor	Ch. 13+900 and Ch. 14+000	630870,900157 630877,900084	Mature hedgerow, interspersed mature trees
S3-T35	Cavanacor/Tyleford	Ch. 1+200 side road	631293,900022	None – removed, open field

Ref.	Townland Boundary	Approx. Chainage	ITM	Notes
S3-T36	Tyleford/Rossgeir	Ch. 1+450	side 631550, 900123	Stream, tree-lined road
S3-T37	Cavanacor/ Ballynabreen	Ch. 14+400	631119,899714	Deele River
S3-T38	Ballynabreen/ Murlough	Ch. 14+900	631480,899339	Stream, mature tree-lined
S3-T39	Murlough/Lifford Common	Ch. 15+150	631667,899282	Stream, tree-lined (including general area of S3-AAP05)
S3-T40	Lifford Common/Drumboy	Ch. 15+600	632058,899161	Stream, tree-lined (including general area of S3-AAP05)
S3-T41	Drumboy/Lifford Common	Ch. 15+900	632307,898889	Mature hedgerow/mature trees
S3-T42	Lifford Common/Townparks	Ch. 16+200	632384,898611	Hedgerow
S3-T43	Townparks/ Carricknaslate	Ch. 16+650	632447,898172	Mature tree-line, stone boundary wall associated with Croaghan House
S3-T44	Carricknaslate/ Coneyburrow	Ch. 16+900	632504,897913 632464,898059	Intermittent mature trees only (access avenue to Croaghan House crosses this boundary also)
S3-T45	Carricknaslate/ Coneyburrow	Ch. 17+000	632498,897814	Mature tree-line
S3-T46	Coneyburrow/ Curragalane	Ch. 17+400	632516, 897472	Mature hedgerow/tree-line
S3-T47	Curragalane/ Carricklee (NI)	Ch. 0+300 (N14/N15 to A5 Link)	632623,896990	River Finn (Ire/NI jurisdiction boundary)

Summary Review of the National Folklore Collection

A review of *The Schools Collection (1937-1939)* indicates a number of entries of relevance to the Study Area. There are a number of entries relating to placenames that refer to translated meanings and field/land ownership, within the Lifford area (see Appendix C17.02).

Of relevance to the Study Area are entries included for Ballindrait, Drumbeg and Drumfad townlands, as well as three entries for Lifford and Cavanacor in relation to local folklore relating to the Battle of Lifford and Siege of Derry respectively. One story details how Lifford got its name: "Both armies met on the river at Lifford as it is now called. O'Neill's army on the south side of the river and O'Donnell's on the north. It was customary in these days for one chieftain to tell the strength of his army to the other before the battle. It was discovered that O'Donnell had one man more than O'Neill, and O'Neill complained about this. O'Donnell said he would soon make the armies even. He cut a man in two and sent a half of him over to O'Neill. On that spot a town was later built, and it was named *Leitbfearr* which in English means half man. *Leitbfearr* was afterwards pronounced Lifford by the English planters."

Two separate memories relating to the siege of Derry are recorded from Cavanacor and Lifford: "It is also said that King James on his way from Derry to Dublin dined under a Sycamore tree in Cavanacor town, but he did not halt long as King William was pursuing him. The Sycamore tree is still there, and King James' name is on it" and "In Lifford parish Church, in the parish of Clonleigh South, there is a wooden table erected to the memory of Sir Richard and Dame Hansard. It is reported that while the army of James II was marching on to attack Derry that they camped at Cavanacor, a few miles outside Lifford. They were refused shelter in Lifford Church and in their anger they cut the hands off Sir Richard and his wife leaving only the bare stumps. Everything else remained intact."

A "heap of stones where the Danes worshipped" at Croaghan Hill and may infer the passage tomb and hillfort DG070-074001- and DG070-074002- (see Table 17-28). There is also reference to a cave at Croaghan Hill and tunnel which opens at the area of Cavanacor house which may possibly infer the presence of a souterrain-type feature in this locale.

Another entry refers to ‘Gallows Lane’ at Croaghan Heights (Lifford Common) that “if people in this district were caught stealing sheep (which was fairly common) they were hanged at the Gallows Lane near Lifford. A tree was used as a gallows.”

A fortification site (RMP ref. no. DG062-004----) and stone row (RMP ref. no. DG062-003----) are recorded at Labbadish where “There is a giant’s bed in one of Miss Gillen’s fields. In the townland of Labbadish in the parish of Raymochy in County Donegal. It is oblong in shape and is higher than the surrounding ground. It is about a thousand years ago since the giant lived there. He threw three great stones about a quarter of a mile away from his bed. These stones are to be seen in a field on a neighbouring farm the property of Mr John Patterson”.

Further details relating to the National Folklore Collection (The Schools’ Collection 1937-39) with relevance to the Study Area are presented in Appendix C17.02.

Results of LiDAR Assessment

A total of 53 no. sites have been identified and recorded in the LiDAR data for Section 3 of the Proposed Development (Appendix C17.04a and Appendix C17.04b; AMS, 2020, 68). Of this dataset, 26 no. were already recorded (SMR sites and Option Selection stage ‘new’ sites) with 15 no. identified from lo-res LiDAR data and an additional 12 no. from hi-res LiDAR data. A total of two no. lo-res LiDAR sites have been subsequently deemed to be non-archaeological, whilst an enclosure possible L334-1 at Carnshannagh was archaeologically tested and found to be non-archaeological.

Data interpretation of unrecorded LiDAR sites include a range of possible site types including possible barrows, mounds, possible burnt spreads, possible enclosures, farmsteads, lime kilns, a road, Flax mills, mill ponds, and mill races. Of the *unrecorded* LiDAR sites, a total of 19 No. are located within the 300 m assessment corridor for Section 3 of the Proposed Development (see Table 17-35). It is noted that all newly identified LiDAR sites can only be considered *possible* archaeological sites, the cultural heritage significance of which cannot be confirmed until further archaeological investigations are carried out (AMS, 2020, 49).

Of the LiDAR anomaly sites located within the assessment corridor, a total of 16 No. are located within or immediately adjacent (~60 m) to the footprint of the Proposed Development. These LiDAR sites consist of mill ponds, mill races and a Flax Mill at Tullyrap/Feddyglass, two no. former railway lines, a possible mound, a former road, a possible enclosure, a well and two no. former farmsteads.

Table 17-35: Unrecorded LiDAR Sites Identified within Section 3 300 m Assessment Corridor

Ref.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed Alignment
L138-12	Pond	Feddyglass	Ch. 10+400	629445, 903129	23 m E
L307-3	Mound Possible	Drumoghill	Ch. 2+100	625373, 910041	0 m
L310-1	Railway	Ballyboe Drumcarn Drumoghill Labbadish Tullybogly	Ch. 2+200	625422, 909973	0 m
L321-1	Road	Drumatoland	Ch. 5+500	627276, 907480	0 m
L325-2	Well	Sheskinapoll	Ch. 6+400	627822, 906766	114 m NW
L334-4	Enclosure Possible	Carnshannagh	Ch. 8+300	628453, 904952	20 m W

Ref.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed Alignment
L338-4	Flax Mill	Tullyrap	Ch. 1+567 (Side Rd)	629759, 903076	37 m S
L338-5	Mill pond	Tullyrap Feddyglass	Ch. 1+567 (Side Rd)	629799, 903082	66 m SE
L338-6	Mill race	Tullyrap	Ch. 10+400	629471, 903097	0 m
L338-7	Mill pond	Tullyrap	Ch. 10+400	629383, 903143	0 m
L338-8	Burnt Mound possible	Feddyglass	Ch. 10+000	629263, 903449	0 m
L345-3	Railway	Drumboy, Sheercloon, Mass Beg, Gortin North, Lifford Common, Murlough, Cavanacor, Tamnawood, Mass More, & Ballindrait	Ch. 14+100 and Ch. 0+300 (Side Rd)	630581, 900102	0 m
L349-3	Lime Kiln	Ballindrait	Ch. 13+850	630761, 900186	60 m W
L354-2	Farmstead	Ballynabreen	Ch. 14+800	631415, 899424	0 m
L354-4	Farmstead	Ballynabreen	Ch. 14+800	631406, 899417	0 m
L354-5	Well	Murlough	Ch. 14+950	631480, 899314	0 m

Results of Geophysical Survey

A total of three no. areas were subject to geophysical survey along the Study Area for Section 3 of the Proposed Development (Appendix C17.05). Area ER5 is located at the site of an enclosure (RMP DG062-024-----) in Carnshannagh townland. Area ER6 is located at the site of a standing stone RMP DG070-048--- in Murlough townland, whilst Area ER8 is located at a souterrain (SMR SG070-048---) at Curragalane townland.

The site of an enclosure DG062-024--- at Carnshannagh is not indicated in the 1st or 2nd edition OS mapping and no surface trace was visible during field inspections at Option Selection Report stage although an alternative location was indicated further east and upslope of the recorded RMP location. Given that there is no visible surface expression of the recorded enclosure, the unknown nature and extent of the site, as well as its proximity to the footprint of the Proposed Development, it was considered prudent to further investigate the area, including that of the OSR site location. Archaeological geophysical survey results for ER5 revealed "...numerous features which were likely to be geological and agricultural in origin. A number of curvilinear anomalies were detected on the western edge of the site while the majority of these are likely to be geological in nature one possible archaeological double ditches feature was detected [at the location of the recorded enclosure DG062-024---]" (Earthsound Geophysics 2020, 61).

The site of standing stone DG070-048--- at Murlough, due to there being no extant remains, the unknown nature and extent of potential associated sub-surface features at the site location, as well as its proximity to the proposed alignment footprint was subject to further investigations. Archaeological geophysical surveys revealed "...a series of possible archaeological features within the eastern field. These comprise of possible pits and stone deposits which may be associated with an arcing ditch which appears to enclose the base of a natural topographical rise. Alternatively, the features may be associated with a standing stone purported to have once existed within the field. Further features were detected in the eastern field, while these could also be archaeological, a geological or agricultural explanation is perhaps more likely" (Earthsound Geophysics 2020, 62).

The area of souterrain site DG070-082--- at Curragalane, given its proximity to the footprint of the Proposed Development, was subject to further investigation in order to identify further the extent of the underground souterrain passageway and whether there were associated features such as an enclosing ditch or bank (which is typical of such site types). Archaeological geophysical survey results for ER8 revealed "...the remains of numerous possible agricultural features were detected as well as a zone of compact earth or stone which might be archaeological in origin. A large enclosure ditch was detected in the eastern field, this appears to surround a possible bank, which itself surrounds a number of stone deposits and ditches. The enclosure is approximately 60 m in diameter and appears to have remained standing within the landscape for a considerable time as the surrounding detected relict field divisions respect the monument's location. Two large areas of disturbed soil extend from this enclosure which could relate to further archaeological activity" (*ibid.*).

It is also noted that archaeological geophysical survey was previously undertaken by Earthsound Geophysics (2012) at the location of the proposed roundabout junction and terminus area of Section 3 in Curragalane townland as part of investigations for the previous N14/N15 to A5 Link assessments (Roughan O'Donovan Consulting Engineers, 2011). Water-logging conditions on-site meant that some areas were excluded from magnetic gradiometry survey. Electrical resistivity surveys were also carried out. Findings included possible ditches, relict field boundaries/trackways and a possible pit alignment. These surveyed areas have since been subject to archaeological testing (Section 17.2.2.3).

Areas of Archaeological Potential (AAPs)

As a result of both desk and field-based assessment, a number of AAPs have been identified along the Study Area for Section 3 of the Proposed Development. A total of five no. broad areas of potential were identified during Option Selection stage (S3-AAP01 – S1-AAP05) (RPS | Barry Transportation, 2019). Particular areas of note were subsequently identified via research including NMI Topographical Findspots, placename evidence, LiDAR assessment and field survey.

A total of five no. AAPs were identified for Section 3 of the Proposed Development which range from wet low-lying areas, riverine locations to good quality rolling drumlin terrain of excellent quality pasture and soils (see Table 17-36).

Table 17-36: Areas of Archaeological Potential (AAP) Identified in Section 3

Ref.	Type	Townland	Approx. Ch.	ITM (indicative point)
S3-AAP01	a) Central point ITM, wet marshy area, potential for <i>fulachta fiadh</i> .	Raymoghly/ Labbadish Drumoghill	Ch. 0+600	623979, 910548
	b) Undulating and well-drained pasture, southerly aspect, central ITM.		Ch. 2+300	625492, 909853
S3-AAP02	Wet lowland pasture, AAP for Moondooley Middle/ Doorabble <i>fulachta fiadh</i> and burnt spreads.		Ch. 4+500	626597, 908265
S3-AAP03	a) Undulating rough pasture, flat areas, generally fair archaeological potential.	Carnshannagh, Feddyglass, Tullyrap, Drumfad	Ch. 9+900	629186, 903572
	b) Gently undulating/flat lands that reach northern banks of Swilly Burn, wet area adjacent river (drainage interventions noted in field drains, flood embankments etc.). Swilly Burn is an important historical boundary and although channelised post-Plantation) may originally have had a much wider floodplain.	Broadlea, Mulnaveagh	Ch. 11+400	629440, 902155

Ref.	Type	Townland	Approx. Ch.	ITM (indicative point)
S3-AAP04	Area of standing stones (removed), high ground. SE slopes high drumlin terrain falling to the Deelee River below. N and S banks and lands at River Deelee – reference to Camp Hill (King James II encampment and Siege of Derry in the early 17 th century).	Gortin North	Ch. 13+100	630488, 900843
		Gortin North/ Tamnawood	Ch. 13+700	630803, 900296
			Cavanacor	
S3-AAP05	Within area of recorded standing stone sites. Undulating well drained soils.	Murlough (Clonleigh South)	Ch. 15+200	631704, 899275
		Lifford Common	Ch. 15+400	631912, 899224
S3-AAP06	N14/N15 to A5 Link – northern and southern banks of the River Finn and adjacent lands. (S3-R03). Environs of site of a standing stone on NI Tyrone side of the river (TYR004:003). Carricklee (NI) 16 th century battle site (01/05/1588) between The Earl of Tyrone (Hugh O'Neill) (defeated) and Turlough Luineach O'Neill (victor) (AFM, Vol. 5, p.1867).	Currghalane	Ch. 0+200	632549, 897083
		Carricklee (NI)	Ch. 0+300	632655, 896949

Underwater/Riverine Archaeology

The AAPs identified for Section 3 of the Proposed Development also include lands associated with the Swilly Burn, Deelee River and River Finn crossings, while several townland boundary crossings also represent streams and/or drainage ditches throughout the Study Area (see Table 17-37). Of note are the rivers as receptors together with adjacent riverbanks. The Swilly Burn retains modern flood embankments and is subject to dredging maintenance. These crossing points have also been identified as townland boundaries (S3-T29, S3-T37 and S3-T47). A proposed clear span structure traversing the water body itself with pier columns extending either side of the banks and floodplains is proposed for each river location.

Table 17-37: Underwater Archaeology (River) receptors within Section 3 Study Area

Ref.	Name	Townland	Approx. Ch.	ITM (indicative point)
S3-R01	Swilly Burn	Mulnaveagh/Broadlea	11+500	629459, 902062
S3-R02	Deelee River	Ballynabreen/Cavanacor	14+400	631116, 899722
S3-R03	River Finn	Curraghlane/Carricklee (NI)	0+300	632622, 896992

Protected Architectural Heritage Structures (RPS)

A review of the Record of Protected Structures for County Donegal, per the *County Donegal Development Plan 2024-2030* indicates that there is one RPS structure located within the assessment corridor, whilst there are two sites located outside of the Study Area which have been included due to the amenity value and context of the sites relative to the assessment corridor (see Table 17-38).

A former vernacular thatched house 'Annie Tourish's pub' (RPS 40906203) is located at White Crossroads and has been levelled in recent years with no above ground trace. The site of the cottage is located at a side road junction Ch. 0+100 with the main alignment at Drumbeg.

Cavanacor house and outbuildings, forming the core element of Cavanacor demesne is located on an elevated position and enclosed by a mature tree belt which has retreated to the core area and associated gardens. The house is located 178 m north of a side road realignment Ch. 1+300 at Cavanacor/Tyleford, which accesses Ballindrait to the west and the existing N14 to the east.

St. Patrick's church in Murlough is a cruciform plan church with copper roof, designed by architect Liam McCormick (built 1962-64). The church is sited on level ground to the east of a high ridge forming the lower north-eastern slopes of Croghan hill, c. 171 m north of the alignment footprint at Ch. 15+300. Further detail relating to the RPS structures within the Study Area are presented in Appendix C17.02.

Table 17-38: RPS Structures Located within the Section 3 Study Area

RPS No.	Type	Townland	Approx. Ch.	ITM	Approx. Distance from Edge of Proposed Alignment	NAIH (Y/N)
40906203	House (Annie Tourish's) [demolished]	Drumbeg	Ch. 0+100 Side Rd	628776, 903969	0m	N
40907020	St Patrick's Church	Murlough	Ch. 15+300	631963, 899456	171 m N	Y
40907026	Cavanacor House	Cavanacor	Ch. 1+300 (Side Rd)	631322, 900236	178 m N	Y

Historic Buildings Northern Ireland (N14/N15 to A5 Link)

The location of the N14/N15 to A5 Link tie-in point on the southern side of the River Finn (Northern Ireland) does not retain any historic buildings within the 300 m assessment corridor. However it is noted that there are four no. recorded historic buildings located broadly along the Urney Road, Strabane (Table 17-39).

Castletown House (HB10/08/007) was built c. 1865 on the site of an earlier house noted on the 1st and 2nd edition OS mapping. The principal elevation faces east and is described (DfC: Historic Environment Map Viewer) as having an extensive setting with open fields reaching the River Finn at the northwest side, although considerable loss of associated land and modern housing estates along the Urney Road detract from the overall setting at this location.

Red House and gate lodge (HB10/08/003) (built c. 1890) was inspected during field survey (September 2021) and was noted to be entirely demolished, with remnant grassed over rubble remains and partial pair of access brick gate piers evident. The site is now derelict (see Appendix C17.13).

Carricklee Gate Lodge (HB10/08/004C) built c. 1891 is associated with Carricklee House designed by W. F. Unsworth for owner John Herdman. Herdman & Co. ran the successful linen mill at Sion Mills and were responsible for the model village built for workers and staff. The gate lodge is located at a junction of Urney Road and Carricklee Avenue with the principal elevation at the southwest side. The is mature woodland to the south although the immediate roadside fronted aspect detracts from overall setting. There are views afforded across the low-lying lands that drop to the banks of the River Finn and the N14/N15 to A5 Link tie-in point. Carricklee Stables (HB10/08/004B) and Carricklee House, built c. 1891, are located within mature wooded grounds west of Carricklee Avenue and at higher elevation to the Urney Road. Views are limited from the site due to surrounded mature woodland.

Table 17-39: Recorded Historic Buildings Located within the Section 3 N14/N15 to A5 Link Study Area (Northern Ireland)

Ref.	Type	Townland	Approx. Ch.	ITM	Approx. Distance from Edge of Proposed Alignment
HB10/08/007	Castletown House	Castle town	n/a	633011, 897227	446 m NE
HB10/08/003	Red House	Carricklee	n/a	632809, 896862	224 m SE
HB10/08/004C	Carricklee Gate Lodge	Carricklee	n/a	632659, 896791	196 m S
HB10/08/004B	Carricklee Stables	Carricklee	n/a	632413, 896481	540 m SW

National Inventory of Architectural Heritage (NIAH) structures

A review of the NIAH for County Donegal indicates that there are 15 no. architectural heritage structures located within the Study Area, whilst Cavanacor house and St Patrick's Church are also recorded on the NIAH and although located outside the assessment corridor, they are included for assessment purposes (see Table 17-40). Three further NIAH structures, a windmill at Murlough, a manse near St. Patrick's Church and Raymoghly church and graveyard (which is also a recorded archaeological site, see Table 17-28) are also located outside the assessment corridor but have been included as receptors for assessment purposes. In total there are ten NIAH structures located within the assessment corridor. Further detail relating to the NIAH structures located within the Study Area is presented in Appendix C17.02.

Table 17-40: NIAH Structures Located within the Section 3 Study Area

NIAH No.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed Alignment	RPS (Y/N)
40827009	Church	Raymoghly	Ch 00 Access Rd	624171, 911045	350 m NE (outside corridor)	N
40827011	Manse	Glebe (Manorcunningham)	Ch. 0+200	623692, 910766	53m NE	N
40834001	Country House	Cavanacor	Ch. 1+300 (Side Rd)	631468, 900228	178 m N (outside corridor)	Y
40834002	Manse	Murlough	Ch. 0+350	631818, 899517	44 m W	N
40834003	St Patrick's Church	Murlough	Ch. 0+350	631963, 899456	39 m E	Y
40834004	Bell tower, St Patrick's church	Murlough	Ch 0+350	631914, 899459	20 m E	Y
40834005	Ballindrait Windmill	Murlough (Clonleigh South)	Ch. 15+100	631546, 899064	176 m S (outside corridor)	N
40834006	Outbuilding	Murlough (Clonleigh South)	Ch. 14+600	631361, 899575	17 m NE	N
40834017	Goods Shed	Ballindrait	Ch. 14+100	630815, 900024	58 m S	N

NIAH No.	Type	Townland	Approx. Ch.	ITM	Distance from Edge of Proposed Alignment	RPS (Y/N)
40834011	Station Masters House/ Building Misc	Ballindrait	Ch. 14+000	630864, 900013	15 m W	N
40834014	Station Master's House	Tamnawood	Ch. 0+200 Side Rd	630394, 900308	0 m	N
40835028	Croaghan House	Carricknaslate	Ch. 16+800	632331, 897998	66 m W	N
40905456	Connaghan's Bridge	Corkey, Raymoghly	Ch. 00 Side Rd	623467, 910234	146 m SW	N
40906216	Building Misc	Ballyholey Far	Ch. 6+000	627148, 907006	140 m NW	N
40906245	Outbuilding	Mondooney Lower	Ch. 3+500	625893, 908742	31 m NE	N
40906262	House	Carnshannagh	Ch. 9+200	628672, 904128	7 m SW	N

Architectural Conservation Areas (ACAs)

A review of Architectural Conservation Areas per the *County Donegal Development Plan 2024-2030* indicates that there are no ACAs located within the Section 3 Study Area.

Designed Landscapes and National Inventory of Architectural Heritage (NIAH) Historic Garden Survey Sites

There are two recorded NIAH Historic Garden Surveys within the Section 3 Study Area of the Proposed Development. These consist of the designed landscapes associated with Cavanacor House and Croaghan House (see Table 17-41).

Cavanacor House is described by the NIAH records as “a modest sized demesne for an early 17th century house, set on high ground above the Deelee River and laid out as a landscape park in a style much later than the house. There is said to be evidence of a small formal layout, possibly an earlier garden contemporary with the house, adjacent to the house on the southwest side”. The house is recorded on the RPS and NIAH (RPS Ref. 40907026/ NIAH Ref. 40834001) together with outbuildings and courtyard, walled garden, two gate entrances and a gate-lodge. Further historic detail regarding Cavanacor House is presented in Appendix C17.02.

Croaghan House, located in Carricknaslate townland at the southerly terminus area of Section 3 of the Proposed Development, is described by NIAH records as “a small site for early 18th century house on high ground above the River Finn. Well maintained ornamental grounds at the house and fine mature trees. Long approach drive from the main road, c. 1840 gate lodge, now demolished. A few mature parkland trees. Outbuildings original and maintained. An interesting feature is the long east-facing wall to the north of the house, probably used for growing fruit, that once backed up a productive garden area”. The house and outbuildings are recorded on the NIAH built heritage record (Ref. 40835028). Further historic detail regarding Croaghan House is presented in Appendix C17.02.

Table 17-41: NIAH Historic Gardens located within Section 3 Study Area

NIAH Garden ID	Garden No.	Townland	Approx Ch.	ITM	Distance from Edge of Proposed Alignment	RPS (Y/N)	NIAH (Y/N)
DG0028	DG-06-C-314007	Cavanacor	Ch. 14+000	631244, 900234 (approx. centre-point)	0m	Yes House and associated demesne structures RPS 40907026	Yes House and associated demesne structures NIAH 40834001
DG0040	DG-06-H-324980	Carricknaslate	Ch. 16+800	632483, 897992 (approx. centre-point)	0m	No	Yes House and associated demesne structures NIAH 40835028

Historic Cartographic Review

A review of the available 1st, 2nd and 3rd edition OS mapping (see Section 17.1.2.3) was undertaken with a view to identify past settlement indicators (for example vernacular buildings/farmsteads, wells, lime kilns, roads, mills and associated infrastructure) and land-use patterns (open unimproved areas or enclosed improved areas, townland boundaries/land divisions) and the identification of the location and extent of unrecorded, or partially levelled, features of Cultural Heritage interest, and including built features of a vernacular nature.

A total of 170 No. features were identified (see Appendix C17.02), of which 135 No. represent sites not previously identified via LiDAR assessment, or field survey. Of these remaining 135 No. identified historic mapping sites, 87 no. are located within or very close to (~50 m from edge) the alignment footprint/Proposed Development boundary line (see Table 17-42). These consist of 23 No. vernacular structures, nine No. lime kilns, 22 No. wells, four no. mileposts, five no. sluices, five no. flax mills, five no. mill ponds, two no. mill races, one no. weir, one no. saw mill, one no. smithy, two no. quarries, one no. post office, one no. schoolhouse and four no. springs. Of these, a total of 46 No. sites are still indicated on the 3rd edition 6-inch mapping (1940s): M496, M501, M522, M524, M530, M531, M532, M534, M566, M571, M574, M580, M582, M597, M598, M599, M607, M615, M616, M625, M626, M628, M637, M648, M649, M651, M652, M658, M662, M666, M668, M670, M671, M672, M673, M674, M687, M688, M694, M698, M699, M700, M704, M711, M715 and M720. It is possible that very partial or sub-surface remains of these undesignated vernacular features exist along the preferred alignment footprint.

It is noted that vernacular structure M698 represents the birthplace of Rev. James Porter (1753-1798), born at Tamnawood and to whom a plaque is dedicated on the gable end of the modified house (erected by Donegal Historical Society, 1969). Rev. Porter is notably recognised as being born to a Presbyterian plantation settler family who resided in the Ballindrait/Tamnawood area for several generations. His father, Alexander Porter, was a farmer and owner of a flax scutching mill on the River Deelee, on the north bank, upstream of Ballindrait bridge. Rev Porter moved to County Down at the age of 20 and eventually married and became Reverend for the notable Greyabbey congregation in 1787 (Woods, 2009). He is noted to have been an impressive preacher with great technical ability and scientific insight, but also was drawn into the radical politics of the day, becoming antagonistic to the protestant influences in the Ards peninsula. He became a regular satirist with his chief literary popular work being a series of prose known as "Billy Bluff and Squire Firebrand" (*ibid.*). His sympathies with the United Irishmen did not go unnoticed and he was trialled by court martial for apparent involvement with a party of insurgents in 1798 and was subsequently hanged.

Table 17-42: Cultural Heritage Historic Mapping Sites within or near to Section 3 Proposed Development boundary/Alignment Footprint

Site Ref.	Type	Townland	ITM_E, ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M435	Vernacular structure	Raymoghly	623560, 911011	Y	N	N
M496	Milepost	Raymoghly	623706, 910620	N	Y	Y
M501	Vernacular structure	Raymoghly	623646, 910487	Y	Y	Y
M522	Vernacular structure	Carrickballydooley	625094, 910176	Y	Y	Y
M524	Sluice	Carrickballydooley	625022, 910068	N	Y	Y
M526	Well	Ballyboe	625401, 910177	Y	N	N
M528	Well	Ballyboe	625445, 910093	Y	N	N
M529	Flax Mill	Ballyboe	625292, 910073	Y	Y	N
M530	Mill Pond	Ballyboe	625182, 910017	Y	Y	Y
M531	Mill Race	Ballyboe	625256, 910048	Y	Y	Y
M532	Flax mill	Ballyboe	625151, 910015	Y	Y	Y
M533	Sluice	Ballyboe	625303, 910079	N	N	N
M534	Weir	Ballyboe	625305, 910067	N	Y	Y
M555	Limekiln	Drumoghill	625526, 909857	Y	N	N
M559	Limekiln	Moondooley Lower	625811, 908842	N	Y	N
M564	Vernacular structure	Moondooley Lower	625677, 908637	Y	N	N
M566	Well	Moondooley Lower	625921, 908807	N	Y	Y
M571	Milestone	Moondooley Lower	626378, 908509	N	Y	Y
M574	Spring	Woodhill	626458, 908473	N	Y	Y
M580	Well	Moondooley Middle	626330, 908002	N	Y	Y
M581	Spring	Doorabble	626683, 908490	N	Y	N
M582	Vernacular structure	Doorabble	626693, 908449	Y	Y	Y
M584	Well	Doorabble	626669, 908269	Y	N	N
M585	Limekiln	Doorabble	626679, 908268	Y	N	N
M586	Vernacular structure	Doorabble	626663, 908280	Y	N	N
M587	Limekiln	Doorabble	626876, 908198	Y	N	N
M597	Smithy	Ballyholey Far	627077, 907688	N	Y	Y
M598	Well	Ballyholey Far	627079, 907633	N	Y	Y
M599	Vernacular structure	Ballyholey Far	627013, 907619	N	Y	Y
M606	Limekiln	Sheshkinapoll	627567, 906835	Y	N	N
M607	Milestone	Sheshkinapoll	627504, 906827	N	Y	Y
M610	Well	Sheshkinapoll	627695, 906529	Y	N	N

Site Ref.	Type	Townland	ITM_E, ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M611	Vernacular structure	Slievebuck	627738, 906490	Y	N	N
M615	Vernacular structure	Slievebuck	628035, 906048	N	Y	Y
M616	Flax Mill	Slievebuck	628049, 905988	Y	Y	Y
M617	Well	Slievebuck	627886, 905996	Y	N	N
M622	Vernacular structure	Carrickadawson	628269, 905935	Y	Y	Y
M623	Well	Carrickadawson	628185, 905805	Y	N	N
M624	Well	Carrickadawson	628248, 905796	Y	N	N
M625	Spring	Carrickadawson	628099, 906046	N	Y	Y
M626	Spring	Carrickadawson	628241, 905435	N	Y	Y
M628	Vernacular structure	Carrickadawson	628230, 905403	Y	Y	Y
M637	Milestone	Carnshannagh	628364, 904987	N	Y	Y
M639	Quarry	Carnshannagh	628543, 904657	Y	N	N
M642	Vernacular structure	Carnshannagh	628594, 904292	Y	N	N
M648	Saw / Flax Mill	Dromore Big	628660, 904094	Y	Y	Y
M649	Post Office	Dromore Big	628636, 904163	N	Y	Y
M651	Mill Pond	Drumbeg	628775, 904049	Y	Y	Y
M652	Flax Mill	Drumbeg	628850, 904016	Y	Y	Y
M653	Well	Drumbeg	628751, 904043	Y	N	N
M657	Mill Pond	Feddyglass	629383, 903168	Y	N	N
M658	Well	Feddyglass	629758, 903133	Y	Y	Y
M662	Well	Feddyglass	629756, 903148	Y	Y	Y
M666	Flax Mill	Tullyrap	629752, 903077	Y	Y	Y
M668	Mill Pond	Tullyrap	629785, 903091	Y	Y	Y
M670	Mill Race	Tullyrap	629614, 903084	Y	Y	Y
M671	Sluice	Tullyrap	629743, 903065	N	Y	Y
M672	Mill Pond	Tullyrap	629386, 903143	N	Y	Y
M673	Sluice	Tullyrap	629414, 903151	N	Y	Y
M674	Sluice	Tullyrap	629405, 903129	N	Y	Y
M675	Limekiln	Tullyrap	629530, 902809	Y	N	N
M680	Vernacular structure	Sheercloon	629859, 901433	Y	N	N
M684	Vernacular structure	Gortin North	630397, 901172	Y	N	N
M685	Limekiln	Gortin North	630471, 901146	Y	N	N
M687	Well	Gortin North	630325, 901020	Y	Y	Y

Site Ref.	Type	Townland	ITM_E, ITM_N	1 st ed 6-in OS map (1830s)	2 nd ed 25-in OS map (1900s)	3 rd ed 6-in OS map (1940s)
M688	Well	Gortin North	630336, 900950	N	Y	Y
M693	Vernacular structures	Tamnawood	630636, 900658	Y	N	N
M694	Well	Tamnawood	630526, 900672	Y	Y	Y
M695	Vernacular structure	Tamnawood	630471, 900646	Y	N	N
M696	Vernacular structure	Tamnawood	630477, 900660	Y	N	N
M697	Vernacular structure	Tamnawood	630469, 900675	Y	N	N
M698	Vernacular structure	Tamnawood	630462, 900558	N	Y	Y
M699	Well	Tamnawood	630475, 900539	N	Y	Y
M700	School House	Tamnawood	630435, 900374	Y	Y	Y
M701	Quarry	Tamnawood	630432, 900363	Y	N	N
M702	Limekiln	Ballindrait	630608, 900073	Y	N	N
M703	Well	Ballindrait	630673, 900103	Y	N	N
M704	Limekiln	Ballindrait	630765, 900183	N	Y	Y
M711	Well	Ballynabreen	631387, 899393	N	Y	Y
M712	Well	Ballynabreen	631362, 899380	Y	N	N
M713	Well	Ballynabreen	631360, 899367	Y	N	N
M714	Vernacular structures	Ballynabreen	631392, 899367	Y	N	N
M715	Vernacular structure	Ballynabreen	631411, 899402	Y	Y	Y
M719	Well	Murlough	631581, 899392	Y	N	N
M720	Well	Murlough	631482, 899296	Y	Y	Y
M724	Vernacular structure	Lifford Common	631903, 899166	Y	N	N
M725	Vernacular structure	Lifford Common	631903, 899130	Y	N	N
M735	Quarry	Town Parks	632384, 898541	Y	N	N
M743	Vernacular structure	Coneyburrow	632570, 897549	Y	N	N
M744	Well	Coneyburrow	632585, 897563	N	Y	N

17.2.2 Field Assessment

17.2.2.1 Section 1 of the Proposed Development

Field walkover survey was carried out within the Section 1 Study Area in June 2020 with focus on the alignment of the Proposed Development, and inspections were carried out within the 300 m assessment corridor in order to inspect recorded and sites/structures as well as items identified during the desk-based LiDAR assessment, aerial and historic cartographic review.

Walkover Survey

Summary walkover results are presented in Table 17-43 with written notes and a photographic record presented in Appendix C17.08 and Appendix C17.09. A total of 23 No. previously unrecorded/unidentified Cultural Heritage sites and features were noted as part of the field survey findings. Recorded Cultural Heritage sites and anomalies identified via LiDAR assessment were also inspected, the details of which are presented in Appendix C17.09.

Of the previously unrecorded Cultural Heritage sites/features identified, a total of 13 No. are located directly within the Proposed Development footprint. These receptors, of local value only, represent vernacular heritage receptors for the most part, including: a pair of ruined lime kilns, four no. former roadways/trackways, a former railway line, a former mill race, former bridge structure (infilled), a flagged-over stream, stone field walling three no.), a cross-inscribed stone pillar.

Table 17-43: Summary Walkover Field Survey Results within Section 1 Study Area

Ref.	Type	Townland	ITM	Approx. Chainage	Notes	Distance to Edge of Alignment Footprint
F-1-01	Pair of ruined limekilns	Meencargagh	610111, 892699	Ch. 00 (S terminus)	Depicted on 2 nd ed OS	0 m
F-1-02	Roadway	Cappry	611870, 894356	Ch. 1+500	Overgrown botharin lined with denuded coaxial stone walls, depicted on 1 st ed OS and 2 nd ed – accesses vernacular farmstead	0 m
F-1-03	Roadway	Cappry	611818, 894340	Ch. 1+450	Overgrowth botharin, depicted on 1 st ed OS and 2 nd ed OS, accessing vernacular farmstead and forked laneway	0 m
DLR(S&GB) Railway line	Railway line	Cappry	612409, 894923	Ch. 2+300	Fossilised remains of Stranorlar-Glenties railway line per field boundary – no associated embankments	0 m
F-1-04	Roadway	Cappry	611905, 894734	Ch. 350	Botharin lined with stone walls originally linking farmsteads including that of outbuilding NIAH 40907720	0 m

Ref.	Type	Townland	ITM	Approx. Chainage	Notes	Distance to Edge of Alignment Footprint
F-1-05	Ruined lime kiln	Ballybofey	612940, 894368	Ch. 1+550	Shown on 1 st ed OS	45 m N
Logue's Bridge	Logue's Bridge	Cappry/ Ironworks	612413, 895026	Ch. 2+400	Late 19 th C/early 20 th C single carriageway bridge. Date plaque 'J. McKelvy 1911'	61 m W/NW
F-1-06	River access path and retaining wall on N bank of river	Ironworks	612426, 895039	Ch. 2+400	Access to river to build the bridge or remove stones/gravel from riverbed	57 m W/NW
F-1-07	Mill Race	Ironworks	612511, 895020	Ch. 2+450	Tail of mill race associated with mill at Ironworks NIAH 40907708	0 m
F-1-08	Bridge	Ironworks/ Drumboe Lower	613025, 895320	Ch. 3+025	Located just south of existing road that leads through Drumboe Demesne to the 'west gates'. This bridge corresponds with a road leading to a flax mill per 1 st ed OS, crosses a stream that forms townland boundary between Ironworks and Drumboe Lower. Also a lodge marked on 1 st and 2 nd ed OS with a well, adjacent bridge.	0 m
F-1-10	Infilled stream (flagstone cover)	Drumboe Lower	613050, 895441	Ch. 3+100	Per landowner info (project aquatic ecologist pers. comm.)	0 m
F-1-11	Stone field wall	Drumboe Lower	613137, 895414	Ch. 3+150	Evidence of mortar in part	0 m
F-1-12	Walled avenue	Drumboe Lower	613334, 895383	Ch. 3+300	Substantial walled avenue with fossilised building elevations in part, forming southern boundary of Abbey field	40 m SE
F-1-13	Cruciform plan building with outbuildings	Drumboe Lower	613316, 895380	Ch. 3+300	Indicated on 1 st ed OS, south of Drumboe Abbey site. Modified by 2 nd ed OS, no structural visible remains today however walling still remains at north and south sides of the c. 5m	40 m S

Ref.	Type	Townland	ITM	Approx. Chainage	Notes	Distance to Edge of Alignment Footprint
					wide access avenue at this location. Cast-iron gate-post noted where the walling transitions to a single wall	
F-1-14	Stone field wall	Drumboe Lower	613332, 895508	Ch. 3+375	Substantial wall forming part of western field boundary with recorded Drumboe Abbey site	0 m
F-1-15	Cross-inscribed pillar	Drumboe Lower	613331, 895483	Ch. 3+350	Inserted along western field boundary to abbey field	0 m
F-1-16	Stone field wall	Drumboe Lower	613476, 895551	Ch. 3+525	Substantial wall forming part of eastern field boundary with recorded Drumboe Abbey site	0 m
S1-BH02	Possible 18 th century farmstead	Drumboe Upper	613969, 896215	Ch. 4+350	Robust stone-built outbuilding with wall-mounted date plaque	35 m NW
F-1-17	Raised sub-circular area	Backlees	614570, 897121	Ch. 5+400	Located on high ground north of Dunwiley fort	90 m NW
F-1-19	Denuded stone wall	Teevickmoy	614858, 897683	Ch. 250 Link Rd	Located southwest of L109-1 at the bottom of slope	62 m NW
F-1-21	Lime kiln	Castlebane	616154, 895993	Ch. 00 Side Rd	Ruins of lime kiln (extant) (outside corridor, see M103)	145 m SW
F-1-22	E-W bank and ditch	Castlebane	616517, 896477	Ch. 2+425	Deep drainage ditch and trackway	0m

Archaeological Test Investigation Results

Licensed archaeological testing and metal detection (TA1) along Section 1 of the Proposed Development took place at Drumboe Lower at the recorded location of RMP DG078-005--- 'Church: Site Of' (see Appendix C17.06a). Full details are referenced in the post-excavation reporting however in summary, a total of 26 No. archaeological contexts were recorded, with a bivallate enclosure and associated features identified:

"Collectively the features indicate an enclosure at the site, currently interpreted as early medieval. This enclosure contains a number of internal features, including pits, deposits, a metalled surface and bowl furnace – although no evidence of burials or structures was recorded. The finds recovered from the site included eight stone artefacts, amongst them three possible rubbing stones, a whetstone, a possible saddle quern and a possible rotary quern stone fragment. The latter of these in particular supports a suggestion of an early medieval date, which is also consistent with much of the known history and folklore for Drumboe Lower. Final dating of the larger enclosure, [C.11], awaits radiometric dating of organics contained in soil samples collected during the excavation" (AMS Ltd. 2022a, 20). The radiocarbon date of the larger enclosure subsequently revealed a high medieval date of cal AD 1162-1220 and cal AD 1048-1263 (AMS Ltd. 2022a).

17.2.2.2 Section 2 of the Proposed Development

Field walkover survey was carried out within the Section 2 Study Area in June and July 2020 with focus on the alignment of the Proposed Development, with inspections also carried out within the 300 m assessment corridor in order to inspect recorded and sites/structures as well as items identified during the desk-based LiDAR assessment, aerial and historic cartographic review.

Walkover Survey

Summary walkover results are presented in Table 17-44 with written notes and a photographic record presented in Appendix C17.10 and Appendix C17.11. A total of 9 No. previously unrecorded/unidentified Cultural Heritage sites and features were noted as part of the field survey findings. Recorded Cultural Heritage sites and anomalies identified via LiDAR assessment were also inspected, the details of which are presented in Appendix C17.11.

Of the previously unrecorded Cultural Heritage sites/features identified, a total of six No. are located directly within the footprint of the Proposed Development. These receptors include four No. AAP, and former railway line and former mill structure (of local value only) (see Table 17-44).

Table 17-44: Summary Walkover Field Survey Results within Section 2 Study Area

Ref.	Type	Townland	ITM	Approx. Chainage	Notes	Distance to Edge of Alignment Footprint
F-2-01	AAP	Drumany	619747, 909427	Ch. 0+950	AAP on high ground SE rising ridge, above R. Swilly (at north)	0 m
F-2-02	Fairy Tree - possible	Drumany	620014, 909778	Ch. 550 Access Rd	Landowner refers to a fairy tree at this location - mature species, single tree within open field, but not hawthorn and no votives	34 m S
F-2-03	AAP	Drumany	619778, 909897	Ch. 1+450	Natural level platform area on elevated position, within ch.1200-1800 - generally good potential	0 m
S2-BH04	Disused railway line	Dromore	620134, 910487	Ch. 2+100	Strabane-Letterkenny narrow gauge railway 1909-1960	0 m
F-2-04	AAP: Former Brickworks	Milk Isle	619185, 911553	Ch. 700 Link Rd	National Folklore Collection refers to a former Brickworks at Milk Isle, forms part of S2AAP-01	0 m
F-2-05	Dromore House	Dromore	620009, 910748	Ch. 0+550	Long house/outbuilding noted on 1 st ed, possibly associated mill by 2 nd ed OS	25 m
F-2-06	Dromore House Mill Structure	Dromore	620024, 910833	Ch. 1800 Link Rd	Ruined possible mill structure at Dromore house complex	0 m
F-2-07	AAP	Drumgreggan	620974, 911242	Ch. 350 N Junction Arm	Link arm to roundabout area, immediately N of existing N13, location of SMR DG053-059---/L212-3 possible enclosure site, overlooks area of Farsetmore (Battle site 1567)	0 m

Ref.	Type	Townland	ITM	Approx. Chainage	Notes	Distance to Edge of Alignment Footprint
S2-BH02	Railway	Trimragh, Magheraboy	622278, 911023	Ch. 2+500	Disused part of Letterkenny Branch of the Londonderry & Lough Swilly Railway (1883-1953), alignment partly re-used by existing N13	35 m SW

Archaeological Test Investigation Results

Licensed archaeological testing and metal detection (TA2) along Section 2 of the Proposed Development took place at Trimragh at the recorded location of RMP DG053-028--- and DG053-028001- 'site of' church and graveyard (see Appendix C17.06b, and Appendix C17.06f). Full details are referenced in the post-excavation reporting however in summary, a total of 1 No. archaeological contexts was recorded, with an isolated burnt spread feature identified (see Table 17-45):

"A single archaeological feature was encountered at Trimragh (Trimragh 1), consisting of a burnt spread (C.3) measuring 4.47 x 1.70 x 0.24 m. The spread is typical of burnt mound material being a mix of burnt stone and charcoal-rich soil. The feature was located at the east-facing side of a steep hill, c.10 m west of a stream, which forms the townland boundary, in low-lying wet field conditions" (AMS Ltd. 2022b, 16.) A possible coin was also recorded via a metal detection survey in the eastern investigation area.

Table 17-45: Archaeological Test Excavation Features: Section 2

Ref.	Type	Townland	ITM	Approx. Chainage	Notes	Distance to Edge of Alignment Footprint
TA2	Burnt Spread	Trimragh	621220, 911219	Ch. 00 Junction Roundabout	C.3 measuring 4.47 x 1.70 x 0.24 m adjacent townland boundary stream	0 m

Subsequent to archaeological testing undertaken by AMS Ltd. at Trimragh (TA2) in 2020, this was followed up by testing at lands not previously available in September 2021. No archaeological features were noted (see Appendix C17.06b).

Licensed archaeological testing and metal detection (TA6) was undertaken by AMS Ltd. in September 2025 at Drumgreggan townland at the recorded location of a possible enclosure SMR DG053-059--- (see Appendix C17.06f). The possible enclosure was identified from LiDAR assessment (Feature L212-3; see section 17.2.1.2) (AMS 2020a, AMS 2020b) and was listed as an SMR site by the ASI in February 2023. Full details are referenced in the post-excavation reporting however in summary, a layer of cockle shell was identified at a depth of c. 1 m within natural alluvium deposits and was considered a natural feature consistent with similar findings in adjacent fields (AMS, 2025). No archaeological features were identified to indicate the presence of an enclosure however it cannot be negated that archaeological remains may exist below the alluvium at this location.

17.2.2.3 Section 3 of the Proposed Development

Field walkover survey was carried out within the Section 3 Study Area in July 2020 and September 2021 with focus on the proposed alignment, with inspections also carried out within the 300 m assessment corridor in order to inspect recorded sites/structures as well as items identified during the desk-based LiDAR assessment, aerial and historic cartographic review. Lands on the southern side of the River Finn within Northern Ireland (location of N14/N15 to A5 Link) were not accessible at the time of survey although open views of the low-lying terrain was afforded from Urney Road.

Walkover Survey

Summary walkover results are presented in Table 17-46 with written notes and a photographic record presented in Appendix C17.12 and Appendix C17.13. A total of 13 No. previously unrecorded/unidentified Cultural Heritage sites and features were noted as part of the field survey findings. Recorded Cultural Heritage sites and anomalies identified via LiDAR assessment were also inspected, the details of which are presented in Appendix C17.13.

Of the previously unrecorded Cultural Heritage sites/features identified, a total of 12 No. are located directly within the footprint of the Proposed Development. These receptors include five No. AAP, three No. former vernacular houses/farmsteads, a bridge, a lime kiln, a possible fairy tree and a tree plantation (see Table 17-46).

Table 17-46: Summary Walkover Field Survey Results within Section 3 Study Area

Ref.	Type	Townland	ITM	Approx. Chainage	Notes	Distance to Edge of Alignment Footprint
F-3-01	Holme farmstead	Carrickbally-dooley	624585, 910362	Ch. 1+250	Associated laneways at ch. 1+580 and ch. 1+450	0 m
F-3-02	Carrickballydooley farmstead	Carrickbally-dooley	624856, 910326	Ch. 1+500	Noted on mapping	0 m
F-3-03	Fairy Tree - possible	Ballyboe	625134, 910177	Ch. 1+800	Per landowner info - large sycamore, no votives or documentary references – does not infer likely fairy tree attributes	0 m
F-3-04	Lime Kiln, stone wall, laneway	Drumoghill	625516, 909875	Ch. 2+300	NW of Tree plantation	0 m
F-3-05	Tree Plantation	Drumoghill	625624, 909642	Ch. 2+600	Circular mature tree-stand along edge of townland boundary stream	0 m
F-3-07	AAP	Ballyholey Far	627293, 907427	Ch. 5+600	Wetland pasture, potential for Fulachta Fiadh	0 m
F-3-08	AAP	Ballyholey Far/ Sheskinapoll	627706, 906497	Ch. 6+600	Low-lying wet pasture	0 m
F-3-09	House	Slievebuck	627941, 906201	Ch. 6+900	Two-storey ruined vernacular house on 2 nd ed OS, Flax mill to south, fronting N14	67 m E
F-3-10	AAP	Slievebuck/ Carrickadawson	628073, 905744	Ch. 7+400	SE sloping pasture, townland boundary (stream), fair potential	0 m
F-3-11	AAP	Dromore Big/ Carnshannagh	628357, 905068	Ch. 8+200	Flat wet pasture, townland boundary (stream)	0 m

Ref.	Type	Townland	ITM	Approx. Chainage	Notes	Distance to Edge of Alignment Footprint
F-3-12	AAP	Carnshannagh	628488, 904742	Ch. 8+500	Well-drained undulating pasture and tillage, SW sloping, includes Carnshannagh tested area (prehistoric activity)	0 m
F-3-13	Ruined cottage	Carnshannagh	628866, 904004	Ch. 9+400	Ruined single-storey cottage/building (part of former Flax Mill complex)	0 m
F-3-14	Bridge	Drumbeg/ Carnshannagh	628737, 904066	Ch. 9+250	Stone road bridge - disused, N14 realigned at this location	0 m

Archaeological Test Investigations Results

Licensed archaeological testing and metal detection along Section 3 of the Proposed Development took place at the same locations as that for the archaeological geophysical survey investigations at Carnshannagh (site of enclosure RMP DG062-024---): Area TA3, Murlough (site of a standing stone RMP DG070-048---): Area TA4 and Curragehalane (a souterrain site SMR DG070-082---): Area TA5 (see Appendix C17.06c, Appendix C17.06d and Appendix C17.06e respectively).

Area TA3, Carnshannagh sought to target investigate the site of an enclosure DG062-024--- (not indicated in the 1st or 2nd edition OS mapping and no surface trace was visible) as well as the location of a possible enclosure further upslope at the east identified during OSR stage (S3-AP01), and a LiDAR anomaly noted to the north (L-334-2). A total of c. 61 geophysical anomalies were also targeted (Earthsound, 2020). No evidence of the site of the enclosure DG062-024--- was found across the area from the test investigations. Prehistoric settlement evidence was identified at the upper slopes to the southeast of the recorded enclosure site location (same field). AMS Ltd (2022c, 17) describe the results as “a total of 49 No. archaeological contexts were recorded from Carnshannagh. This cluster of features, likely representing a small prehistoric settlement, included a minimum of five postholes, seven stakeholes, eight pits (of indeterminate function) and a large burnt spread/deposit”. A radiocarbon date from this prehistoric area subsequently revealed a later Bronze Age prehistoric date of cal BC 1609-1503 and cal BC 1619-1454 (AMS Ltd. 2022c). One coin (possible) and a single lead piece (note: another copper alloy object was recovered from spoil during testing) was recovered from the metal detection survey (AMS Ltd., 2021c, 19).

Area TA4 sought to target investigate the site of a standing stone DG070-048--- at Murlough as well as c. 4 geophysical anomalies (Earthsound 2020) and a LiDAR anomaly L-354-1. No archaeological features were noted at TA4 Murlough (AMS Ltd. 2022d, 15). No metal finds were recovered.

Area TA5 sought to target investigate a souterrain site (DG070-082--) at Curragehalane to determine its extent and layout as well as whether there were any associated archaeological features per those identified from archaeological geophysical survey (Earthsound 2020). A total of two additional archaeological sites were identified at TA5 during testing: Curragehalane 1 and Curragehalane 2.

AMS Ltd. (2022e, 19) note that “Curragehalane 1 comprises a likely early medieval enclosure, as well as a number of possible associated features, including one razed souterrain (DG072-082), as well as a second large pit, which could represent a second souterrain. The possible extent of the souterrains were established in plan, but these features were not excavated. Curragehalane 2 comprises a small prehistoric settlement, including a total of approximately 28 recorded pits, postholes and stakeholes as well as two heterogeneous spreads/linears”. Pottery was recorded from one of these pits and C14 dating from a hazel sample subsequently was dated to the Neolithic period at cal BC 3640-3532 and cal BC 3643-3528 (AMS Ltd. 2022e).

17.3 Predicted Impacts

17.3.1 Characteristics of the Proposed Development likely to Result in Significant Effects on the Environment

A detailed description of the TEN-T Priority Route Improvement Project, Donegal development proposal and required construction activities therein are provided in Chapter 4: Project Description.

The characteristics of the Proposed Development at construction stage which has significance of effect on the Cultural Heritage resource, will involve (but is not limited to) clearance works (trees, vegetation), topsoil removal, and ground reduction/excavation to facilitate both accommodation works, construction of the road carriageway and all associated infrastructure (e.g. drainage, landscaping, lighting etc.). Cultural Heritage receptors identified within the permanent land-take (Proposed Development boundary) and/or at temporary land-take areas, that are subject to clearance and ground reduction/excavation works are likely to be directly and significantly affected by same.

This can take the form of damage to or loss of Cultural Heritage receptors, in whole or in part, by means of:

- Physical changes to the existing ground level, including water courses, during construction (removal of features/deposits);
- Routing of heavy machinery (ground rutting/damage to features/deposits, vibration/stability risk to extant/partially extant structures/features);
- Rock blasting/extraction (vibration/dust/noise risk to extant or partially extant structures/features);
- Drainage infrastructure including de-watering/spoil disposal (changes to the existing environment resulting in damage risk to preserved buried remains/deposits, particularly in wetland/peat deposit areas);
- Landscaping (damage risk to features/deposits by ground preparation and root growth activity from shrub/tree-planting or fencing/screening infrastructure); and
- Ground consolidation/embankment areas (weight damage risk to buried features/deposits, particularly in colluviums or peat deposits).

The characteristics of the Proposed Development at operational stage which has significance of effect on the Cultural Heritage resource, will involve (but is not limited to) physical changes to the existing environment by means of newly introduced built linear infrastructure together with vehicular usage, artificial lighting and on-going maintenance. Cultural Heritage receptors located within the immediate environs of the operational road development are potentially likely to be indirectly significantly affected by same. This can take the form of negative quality of effect by intrusion to the landscape setting of a Cultural Heritage receptor which forms an integral part of, or makes a significant contribution to, the original form, layout and function of same. At operational stage, elements such as the following can result in indirect significance of effect on the Cultural Heritage resource:

- Physical changes or loss to the setting of receptor(s) and/or spatial interconnectivity with the historic landscape;
- Physical changes to the visual amenity value of receptor(s) due to the built infrastructure and operational traffic, noise, and/or lighting; and
- Positive quality of effect can also be achieved by improving and/or facilitating amenity access to Cultural Heritage receptors where such opportunities present.

By proportioning the magnitude of the likely impact (direct or indirect) together with a consideration of the value or sensitivity of the receptor (including protection status, site type, condition/preservation, documentation/historical significance, group value, rarity, visibility in the landscape, fragility/vulnerability, amenity value, and potential contribution to research agendas), a determination can be made on the significance of effect on same (see Section 17.1.2.6).

17.3.1.1 Section 1

Characteristics of the Proposed Development for Section 1 are set out in Section 17.3.1 and details of predicted direct and indirect impacts at construction stage and operational stage are set out in sections 17.3.3.1 and 17.3.4.1 respectively.

17.3.1.2 Section 2

Characteristics of the Proposed Development for Section 2 are set out in Section 17.3.1 and details of predicted direct and indirect impacts at construction stage and operational stage are set out in sections 17.3.3.2 and 17.3.4.2 respectively.

17.3.1.3 Section 3

Characteristics of the Proposed Development for Section 3 are set out in Section 17.3.1 and details of predicted direct and indirect impacts at construction stage and operational stage are set out in Sections 17.3.3.3 and 17.3.4.3 respectively.

17.3.2 Do Nothing

17.3.2.1 Section 1

If Section 1 of the Proposed Development were not to proceed, there would be no adverse impact to the existing Cultural Heritage resource environment baseline presented in Section 17.2.1.1.

17.3.2.2 Section 2

If Section 2 of the Proposed Development were not to proceed, there would be no adverse impact to the existing Cultural Heritage resource environment baseline presented in Section 17.2.1.2.

17.3.2.3 Section 3

If Section 3 of the Proposed Development were not to proceed, there would be no adverse impact to the existing Cultural Heritage resource environment baseline presented in Section 17.2.1.3.

17.3.3 Construction Stage Impacts

17.3.3.1 Section 1

Tabulated in Table 17-48 and Table 17-49 are details relating to, respectively, identified direct and indirect impacts on the Cultural Heritage resource at construction stage for Section 1 of the Proposed Development. A consideration of the magnitude of impact and the value/sensitivity of the receptor has facilitated a determination of the significance of effect per impact assessment criteria set out in Section 17.1.2.6 above. All identified impacts are considered either temporary or short-term (<one year/one-seven years) reflecting indirect impacts associated with the construction period (e.g. noise, visual amenity distraction, heavy machinery movements etc.) or permanent in duration (>60 years) reflecting direct impacts and complete removal of a cultural heritage site/feature during the construction stage period.

In summary, there are a total of 94 no. Direct, 52 no. Indirect and 75 no. No predicted impact construction stage impacts on the Cultural Heritage resource for Section 1 of the proposed development.

Section 1 Direct Construction Stage Impacts

Of the identified 94 No. direct construction stage impacts, one has Significant significance of effect on the grouping value of a recorded archaeological site: an ecclesiastical 'site of' a former church and associated holy well (DG078-005--- & DG078-005001-) at Drumboe Lower.

In addition, Section 1 of the Proposed Development directly traverses six Areas of Archaeological Potential (AAPs) and three rivers (clear span structures with piers at/near riverbanks, flood embankments and flood plains where applicable). The Value/Sensitivity of these receptors is currently unknown, and as such a cautionary higher grade value indicator for this dataset has been applied resulting in eleven *Potential*

Significant significance of effects. There are also two archaeological LiDAR anomalies whereby *Potential Significant* significance of effect has been applied.

The identified direct impacts are tabulated in Table 17-48 and the significance of effects are summarised as follows:

- 0 Profound Negative
- 0 Very Significant Negative
- 1 Significant Negative
- 11 No. Potential Significant
- 8 No. Moderate Negative
- 38 No. Slight Negative
- 36 No. Not Significant
- 0 Imperceptible

Section 1 Indirect Construction Stage Impacts

Of the identified 52 No. Indirect construction stage impacts, six have indirect Significant significance of effect on the landscape setting and/or amenity value of Dunwiley Fort (RMP DG078-003---), the site of a church at Drumboe Lower (RMP DG078-005---) and associated holy well (SMR DG078-005001-); and three built heritage structures: a vernacular long-house (RPS/NIAH 40907834), an outbuilding (NIAH 40907720) and a vernacular building L115-2/S1BH02. The identified indirect impacts are tabulated in Table 17-49 and the significance of effects are summarised as follows:

- 0 Profound Negative
- 0 Very Significant Negative
- 6 Significant Negative
- 7 Moderate Negative
- 35 No. Slight Negative
- 3 No. Not Significant
- 1 Imperceptible

In addition, there are 75 No. identified cultural heritage receptors throughout the assessment corridor for Section 1 of the Proposed Development where No Predicted Impact was noted and measured as imperceptible significance of effects (see Table 17-59).

Section 1 Construction Stage Impacts Qualitative Assessment

In summary, there are a total of 146 no. construction stage impacts on the Cultural Heritage Resource for Section 1 of the Proposed Development. These consist of 94 no. direct and 52 no. indirect impacts. It is also noted that there are 75 no. No predicted impacts on the cultural heritage resource for Section 1 of the Proposed Development (see Appendix C17.14). The total quantity of measured significance of effect for cultural heritage receptors is 221 no. along Section 1 of the Proposed Development:

- 0 Profound Negative
- 0 Very Significant Negative
- 7 Significant Negative
- 11 no. Potential Significant
- 15 No. Moderate Negative
- 73 No. Slight Negative
- 39 No. Not Significant
- 1 No. Imperceptible
- 75 No. No predicted impact

There is a total of seven identified construction stage significant impacts (**one direct and six indirect**) on the cultural heritage resource for the Section 1 Study Area (see Table 17-47). Four of these significant impacts have relevance to recorded archaeological SMR/RMP sites (one no. direct and three no. indirect).

Table 17-47: Section 1 Significant Direct and Indirect Impacts on the Cultural Heritage Resource at Construction Stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
DG078-003---	Ringfort – Rath	Ch 5+200	104 m SE	614615, 896773	Indirect	Medium	High	Significant
DG078-005---	Church (site of)	Ch 3+400	12 m SE	613389, 895443	Indirect	High	Medium	Significant
DG078-005001-	Holy Well	Ch. 3+400	35 m NW	613340, 895557	Indirect	High	Medium	Significant
DG078-005--- & DG078-005001-	Grouping Value – ecclesiastical site	Ch. 3+400	0 m	613358, 895516	Direct	High	Medium	Significant
L115-2 / S1-BH02	Building	Ch. 4+400	35 m NW	613978, 896223	Indirect	High	Medium	Significant
RPS/NIAH 40907834	Vernacular long-house	Ch. 4+400	136 m NW	613895, 896285	Indirect	Medium	High	Significant
NIAH 40907720	Outbuilding	Ch. 1+900	30 m NW	612106, 894673	Indirect	High	Medium	Significant

The site of a church ‘Drumboe Abbey’ at Drumboe Lower (RMP DG078-005---), it’s possible associated holy well (SMR DG078-005001-) and its overall grouping value as a former ecclesiastical site (RMP DG078-005-- - and SMR DG078-005001-) has been subject to archaeological investigations as part of the design proposals. No associated or additional archaeological features were identified within the archaeologically tested areas to indicate the presence of a wider medieval ecclesiastical settlement site, with the extent of the church site DG078-005--- confirmed. The Proposed Development has **direct** impact on the ecclesiastical grouping value of the church site and holy well, traversing between the two areas. This is considered a direct temporary/short-term significant impact on the site grouping during construction stage works. There are no direct impacts on the church site itself, or the holy well during the construction stage (both are located outside the footprint of the Proposed Development) although there are significant (temporary/short-term) **indirect** impacts on the landscape setting of the monuments noted during construction stage. Such indirect impacts are likely to detract from the amenity value and visitor cultural appreciation of the former church site and holy well during this period.

Dunwiley Fort (DG078-003---) is a bivallate ringfort, of large proportions, sited on the summit of a hill within excellent pasture, possibly with at least eighth and ninth century AD usage (Lacey, 2020, 63). Public access to Dunwiley Fort is facilitated by the landowners via dedicated road signage and an access track adjacent to Finn Valley Nurseries. The Proposed Development traverses west and north of the site within open good quality pastureland that rises to the north. This south-facing well drained ground has been identified as an area of archaeological potential (S1-AAP04) and a raised sub-circular area (F-1-17) was also noted during field survey adjacent to this area. The close proximity distance of the Proposed Development (in cut) (see Chapter 18: Landscape and Visual, Section 1 VP04 Photomontage) presents an **indirect** temporary/short-term significant impact during construction stage that is likely to detract from the landscape setting, amenity value and visitor cultural appreciation of the site during this period.

There is a recorded vernacular long-house cottage (RPS/NIAH 40907834) located at Drumboe Upper, forming part of a modern farmstead complex. There is another vernacular farm complex (see Ref. S1-BH02/ L115-2 below) to the southeast with the Proposed Development (including junction to east/northeast and attenuation pond to east/southeast) traversing alongside same. This is considered an **indirect**

temporary/short-term significant impact during construction stage on the overall character/visual attraction of the long-house structure within the farmyard complex.

There is a recorded outbuilding (NIAH Ref. 40907720) located at Cappry forming part of a modern farmstead complex. The Proposed Development is located to the immediate south, west and east (including a junction area) and also traverses a stone wall-lined botharín associated with the farm (F-1-04) which connects to another former vernacular farmstead further west per the 1st ed OS mapping. This is considered an **indirect** temporary/short-term significant impact during construction stage on the overall character/visual attraction of the structure within the farmyard complex.

In addition, a vernacular stone outbuilding S1-BH02 (also identified in the LiDAR assessment ref. L115-2) at Drumboe Upper, forming part of a modern farm complex is located immediately east/northeast of the Proposed Development. Given the proximity to same, this is considered an **indirect** temporary/short-term significant impact during construction stage on the overall character/visual attraction of the structure within the farmyard complex.

There are two possible barrow sites identified via archaeological LiDAR assessment (L110-1 at Teevickmoy and L129-5 at Cappry) that have **direct potential** significant impacts as part of the Proposed Development (both sites are within the alignment footprint). In addition, six AAP (S1-AAP01, S1-AAP02, and S1-AAP04 to S1-AAP07) have also been noted throughout the Section 1 Study Area that have potential to retain presently undiscovered sub-surface archaeological features, deposits and/or artefacts. Construction stage related works for the Proposed Development within these areas are of potential negative **direct** and high levels of magnitude impact on such presently undiscovered archaeological remains and are considered *potential* significant impacts in this regard.

The three river crossings at the Finn, Backlees and Cloghroe (S1-R01, S1-R02 and S1-R03 respectively) comprise clear span structures with piers to each riverbank side and corresponding flood plains. Construction stage related works for the Proposed Development within these areas are of potential negative **direct** and medium levels of magnitude impact on such presently undiscovered archaeological remains and are considered *potential* significant impacts in this regard.

Moderate significance of effect concerning **direct** impact at construction stage have been noted at eight cultural heritage receptors which include three lime kilns (L106-2/M40 at Teevickmoy, L110-3/M68 and L110-4/M72 at Dunwiley), two vernacular buildings (L110-5/M71 at Dunwiley, L138-11 at Cappry) and three features observed during field survey (F-1-06 river access path and retaining wall on north bank of River Finn at Ironworks, F-1-08 stone bridge at Drumboe demesne and F-1-15 cross-inscribed pillar (modern) within a dry stone wall (F-1-14) at the Drumboe Abbey site (DG078-005---) at Drumboe Lower).

A moderate **indirect** impact at construction stage is noted at a pair of ruined limekilns (F-1-01) at Meencargagh (within Proposed Development boundary). Moderate significance of effect concerning **indirect** impact at construction stage have also been noted at six cultural heritage receptors located near the edge (outside) of the Proposed Development boundary/temporary Proposed Development boundary line. These indirect moderate effects are noted only in the context of the features comprising partial upstanding remains with temporary/short-term impact during construction stage on the overall landscape setting, character, visual and cultural appreciation of same. The sites include a ruined vernacular building (L123-6/M166/F-1-13) and associated walled avenue (F-1-12) located within Drumboe demesne, Logue's Bridge on the River Finn at Cappry/Ironworks, and a denuded stone wall (F-1-19) at the base of slope south of LiDAR anomaly L109-1 at Teevickmoy, a possible enclosure (L105-1) at Teevickmoy and a raised sub-circular area F-1-17 at Dunwiley, near Dunwiley Fort (RMP DG078-003---).

A total of 38 no. **direct** slight impacts during construction stage have also been noted which include built heritage features (former Drumboe demesne lands (NIAH DG0047), former DLR(S&G) railway line, vernacular structures), cultural heritage features identified via field survey and townland boundary crossing points (see Table 17-48). A total of 36 no. **direct** not significant impacts have also been noted which includes effects on the former Tircallen demesne lands (NIAH DG0144).

A total of 35 no. **indirect** slight impacts during construction stage have been measured including that at ringfort site RMP DG069-024--- (slight visual distraction affecting the character/visual appreciation of the site within its local environment setting context). A total of three not significant **indirect** impacts have been noted for recorded bullaun site RMP DG069-023--- (sited along a laneway – not located during field survey) a

levelled ringfort DG069-028--- and a possible enclosure site identified from LiDAR assessment (L129-1). A total of 76 no. imperceptible **indirect** impacts have also been noted within Section 1 Study Area for construction stage-related impacts (see Table 17-59).

Table 17-48: Section 1 Direct Construction Stage Impacts on the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
DG078-005--- & DG078-005001-	Grouping Value – ecclesiastical site	Ch. 3+400	0 m	613358, 895516	Negative	Direct	High	Medium	Significant
S1-R01	River Finn	Ch. 2+350-2+400	0 m	612483, 895000	Negative	Direct	Medium	Medium	Potential Significant
S1-R02	Backlees Stream	Ch. 4+100-4+150	0 m	613886, 895997	Negative	Direct	Medium	Medium	Potential Significant
S1-R03	Cloghroe River	Ch. 0+200 – 0+300 (N arm Roundabout)	0 m	616018, 899981	Negative	Direct	Medium	Medium	Potential Significant
L106-2 / M40	Lime Kiln	Ch. 6+700	0 m	615349, 898078	Negative	Direct	High	Low	Moderate
L110-3 / M68	Lime Kiln	Ch. 1+200	0 m SW	615720, 897318	Negative	Direct	High	Low	Moderate
L110-4 / M72	Lime Kiln	Access Rd	0 m	615637, 897141	Negative	Direct	High	Low	Moderate
L110-5 / M71	Building	Ch. 1+350	0 m	615818, 897226	Negative	Direct	High	Low	Moderate
L138-11	Building	Ch. 271 Link Rd	0 m	611168, 893390	Negative	Direct	High	Low	Moderate
F-1-06	River access path and retaining wall on N bank of river	Ch. 2+400	57 m W/NW	612426, 895039	Negative	Direct	High	Low	Moderate
F-1-08	Bridge	Ch. 3+025	0 m	613025, 895320	Negative	Direct	High	Low	Moderate
F-1-15	Cross-inscribed pillar	Ch. 3+350	0 m	613331, 895483	Negative	Direct	High	Low	Moderate
NIAH DG0047	Drumboe Demesne	Ch. 3+050 – Ch. 3+900	0 m	613666, 895276 (approx. centre-point)	Negative	Direct	Low	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
L121-1 / M189	Railway	Ch. 00 Link Rd tie-in	0 m	612015, 895069	Negative	Direct	Medium	Low	Slight
L122-5 / F-1-07	Mill race	Ch. 2+450	0 m	612507, 895065	Negative	Direct	Medium	Low	Slight
DLR(S&GB) Railway line	Railway line	Ch. 2+300	0 m	612409, 894923	Negative	Direct	Medium	Low	Slight
F-1-22	E-W bank and ditch	Ch. 2+425	0 m	616517, 896477	Negative	Direct	Medium	Low	Slight
M132	Railway line	Ch. 250 Side Rd	0 m	616424, 895118	Negative	Direct	Medium	Low	Slight
F-1-02	Roadway	Ch. 1+500	0 m	611870, 894356	Negative	Direct	Medium	Low	Slight
F-1-03	Roadway	Ch. 1+450	0 m	611818, 894340	Negative	Direct	Medium	Low	Slight
F-1-04	Roadway	Ch. 350	0 m	611905, 894734	Negative	Direct	Medium	Low	Slight
F-1-10	Infilled stream (flagstone cover)	Ch. 3+100	0 m	613050, 895441	Negative	Direct	Medium	Low	Slight
F-1-11	Stone field wall	Ch. 3+150	0 m	613137, 895414	Negative	Direct	Medium	Low	Slight
F-1-14	Stone field wall	Ch. 3+375	0 m	613332, 895508	Negative	Direct	Medium	Low	Slight
F-1-16	Stone field wall	Ch. 3+525	0 m	613476, 895551	Negative	Direct	Medium	Low	Slight
S1-T01	Meencargagh/Dooish	Ch. 0 (Link Rd, southern terminus)	0 m	610287, 892804	Negative	Direct	Medium	Low	Slight
S1-T02	Dooish/ Cappyry	Ch. 400 (Mainline and Link Rd, southern terminus)	0 m	610872, 893341 & 610938, 893209	Negative	Direct	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S1-T03	Cappry/Ballybofey	Ch. 1400 (Link Rd. to N15 west of Ballybofey)	0 m	612811, 894284	Negative	Direct	Medium	Low	Slight
S1-T04	Cappry/Ironworks	Ch. 2+400	0 m	612482, 895001	Negative	Direct	Medium	Low	Slight
S1-T05	Ironworks/Drumboe Lower	Ch. 2+450	0 m	612508, 895026	Negative	Direct	Medium	Low	Slight
S1-T06	Drumboe Lower/Magherapaste	Ch. 3+900	0 m	613761, 895808	Negative	Direct	Medium	Low	Slight
S1-T07	Magherapaste/Drumboe Upper	Link Rds x 2, Ch. 4+050	0 m	613659, 895889 613717, 895896 613845, 895931	Negative	Direct	Medium	Low	Slight
S1-T08	Drumboe Upper/Backlees	Ch. 4+800	0 m	614252, 896575	Negative	Direct	Medium	Low	Slight
S1-T08a	Drumboe Upper/Dunwiley	Ch. 850 Link Rd	0 m	614248, 896187	Negative	Direct	Medium	Low	Slight
S1-T09	Backlees/Dunwiley	Link Rd, adjacent Ch. 4+850 Ch. 5+425	0 m	614291, 896559 614668, 897024	Negative	Direct	Medium	Low	Slight
S1-T10	Dunwiley/Teevickmoy	Ch. 6+250	0 m	615139, 897650	Negative	Direct	Medium	Low	Slight
S1-T10a	Teevickmoy/Tircallan	Ch. 1+350	0 m	616025, 897948	Negative	Direct	Medium	Low	Slight
S1-T11	Teevickmoy/Meenavoy	Ch. 8+525 Ch. 300 Link Rd	0 m	615925, 899542 616082, 899728	Negative	Direct	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S1-T12	Teevickmoy/ Magheracorran & Parish Boundary: Stranorlar/ Convoy	Ch. 8+550 (Link Rd, northern terminus) and E arm, roundabout, northern terminus	0 m	616103, 899707 616250, 899457	Negative	Direct	Medium	Low	Slight
S1-T13	Meenavoy/ Callan	Ch. 250 Northern Link Terminus)	0 m	616020, 899974	Negative	Direct	Medium	Low	Slight
S1-T14	Lettermackenny / Teevickmoy	Ch. 50 Side Rd	0 m	614792, 898186	Negative	Direct	Medium	Low	Slight
S1-T15	Teevickmoy/ Dunwiley	Ch. 600 Mullandrait Link Rd.	0 m	615340, 897685	Negative	Direct	Medium	Low	Slight
S1-T16	Dunwiley/ Knockfair	Ch. 1+375 Junction with N13 (link rd)	0 m	615861, 897221	Negative	Direct	Medium	Low	Slight
S1-T17	Knockfair/ Tircallen	Ch. 1+900 – 2+000 Mullandrait Link Rd.	0 m	616144, 897020	Negative	Direct	Medium	Low	Slight
S1-T18	Knockfair/ Mullaghagarry	Ch. 1+700 Mullandrait Link Rd	0 m	616262, 896906 616319, 896857	Negative	Direct	Medium	Low	Slight
S1-T19	Knockfair/ Castlebane	Ch. 2+200 Mullandrait Link Rd.	0 m	616482, 896682	Negative	Direct	Medium	Low	Slight
S1-T19a	Castlebane/ Treanamullin	Ch. 350 Side rd	0 m	616671, 896205	Negative	Direct	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S1-T20	Castlebane/Mullandrait	Ch. 3+225 Mullandrait Link Rd.	0 m	616363, 895772	Negative	Direct	Medium	Low	Slight
S1-T21	Mullandrait/Treanamullin	Ch. 150 Mullandrait Link terminus (eastern side rd)	0 m	616604, 895180	Negative	Direct	Medium	Low	Slight
S1-T22	Teevickmoy/Tircallen	Link Rd (Northern terminus area)	0 m	616024, 897949	Negative	Direct	Medium	Low	Slight
L118-3	Quarry pit possible	Ch. 2+850	0 m	616385, 896077	Negative	Direct	High	Negligible	Not Significant
NIAH DG0144	Tircallen Demesne	Ch. 1+850 – Ch. 2+100 N15 Link Road (Stranorlar)	0 m	617099, 897743 (approx. centre-point)	Negative	Direct	Negligible	Medium	Not Significant
M34	Vernacular structure	Ch. 375 Side Rd	0 m	615108, 898317	Negative	Direct	High	Negligible	Not Significant
M35	Formal garden	Ch. 600 Side Rd	0m	615369, 898420		Direct	Low	Low	Not Significant
M37	Vernacular structure	Ch. 750 Side Rd (underbridge)	0 m	615476, 898208	Negative	Direct	High	Negligible	Not Significant
M53	Vernacular structure	Ch. 6+550	11 m NW	615220, 897972	Negative	Direct	High	Negligible	Not Significant
M69	Well	Ch. 1+300 Link Rd	0 m	615802, 897262	Negative	Direct	High	Negligible	Not Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
M83	Limekiln	Ch. 900 Side Rd	0 m	614319, 896138	Negative	Direct	High	Negligible	Not Significant
M98	Vernacular structure	Ch. 2+750 Link Rd	0 m	616449, 896163	Negative	Direct	High	Negligible	Not Significant
M99	Vernacular structure	Ch. 50 Side Rd Upgrade	0 m	616403, 896109	Negative	Direct	High	Negligible	Not Significant
M131	Limekiln	Ch. 50 Side Rd	0 m	616195, 895133	Negative	Direct	High	Negligible	Not Significant
M141	Limekiln	Ch. 4+700	11 m SE	614226, 896472	Negative	Direct	High	Negligible	Not Significant
M146	Well	Ch. 4+400	0 m	614034, 896223	Negative	Direct	High	Negligible	Not Significant
M150	Limekiln	Ch 800 Side Rd	0 m	614146, 896140	Negative	Direct	High	Negligible	Not Significant
M154	Well	Ch. 100 Side Rd	0 m	613686, 895894	Negative	Direct	High	Negligible	Not Significant
M155	Well	Ch. 4+150	0 m	613857, 896009	Negative	Direct	High	Negligible	Not Significant
M159	Limekiln	Ch 0 Side Rd	0 m	613668, 895811	Negative	Direct	High	Negligible	Not Significant
M160	Vernacular structure	Ch. 150 Side Rd	0 m	613686, 895851	Negative	Direct	High	Negligible	Not Significant
M161	Well	Ch. 150 Side Rd	0 m	613691, 895895	Negative	Direct	High	Negligible	Not Significant
M165	Well	Ch. 3+025	0 m	613031, 895309	Negative	Direct	High	Negligible	Not Significant
M181	Limekiln	Ch. 00 Link Rd	11 m W	611899, 895069	Negative	Direct	High	Negligible	Not Significant
M182	Well & Vernacular Structures	Ch. 00 Link Rd	0 m	611903, 895085	Negative	Direct	High	Negligible	Not Significant
M207	Limekiln	Ch. 1+800	0 m	612140, 894539	Negative	Direct	High	Negligible	Not Significant
M208	Limekiln	Ch. 0 Side Rd	0 m	612077, 894395	Negative	Direct	High	Negligible	Not Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
M209	Limekiln	Ch. 1+500	0 m	611878, 894360	Negative	Direct	High	Negligible	Not Significant
M221	Well	Ch. 1+800	0 m	612132, 894548	Negative	Direct	High	Negligible	Not Significant
M222	Spring	Ch. 700 Side Rd	0 m	612131, 894481	Negative	Direct	High	Negligible	Not Significant
M223	Limekiln	Ch. 1+800	0 m	612140, 894539	Negative	Direct	High	Negligible	Not Significant
M240	Spring	Ch. 1+150	0 m	611585, 894186	Negative	Direct	High	Negligible	Not Significant
M244	Vernacular structure	Ch. 50 Side Rd	0 m	611512, 894200	Negative	Direct	High	Negligible	Not Significant
M250	Vernacular structure	Ch. 650	0 m	611179, 893895	Negative	Direct	High	Negligible	Not Significant
M266	Limekiln	Ch. 250	0 m	611038, 893518	Negative	Direct	High	Negligible	Not Significant
M267	Limekiln	Ch. 150 Side Rd	0 m	611075, 893478	Negative	Direct	High	Negligible	Not Significant
M271	Limekiln	Ch. 250 Side Rd	4 m	611082, 893367	Negative	Direct	High	Negligible	Not Significant
M284	Vernacular structure	Ch. 0 Side Rd	0 m	610328, 892820	Negative	Direct	High	Negligible	Not Significant
M300	Vernacular structure	Ch. 0 Side Rd	0 m	610330, 892823	Negative	Direct	High	Negligible	Not Significant
L110-1	Barrow Possible	Ch. 6+450	0 m	615382, 897813	Negative	Direct	High	Potential Medium	Potential Significant
L129-5	Barrow possible	Ch. 150 Link Rd	2 m E	611913, 894941	Negative	Direct	High	Potential Medium	Potential Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S1-AAP01	Burn Daurnett River lowlands and area SW of Ballybofey, incl. Cappry & Dooish at lowlands	Dooish (Ch. 0+350-0+850) Meencargagh/ Dooish Link Rd	0 m	611007, 893510 (indicative point)	Negative	Direct	High	Potential Medium	Potential Significant
S1-AAP02	SW & NE banks of River Finn incl river crossing and Drumboe Lower, Ironworks, Magherapaste	Ch. 2+600-4+000	0 m	613065, 895384 (indicative point)	Negative	Direct	High	Potential Medium	Potential Significant
S1-AAP04	Southern slopes of ridge, Dunwiley	Ch. 5+200-5+700	0 m	614744, 897117 (indicative point)	Negative	Direct	High	Potential Medium	Potential Significant
S1-AAP05	Elevated field area adjacent stream/townland boundary of Treanamullin/Mullandrait Wet, low-lying areas, incl north of Cooladawson Road	Ch. 3+400-3+550 Ch. 2+800-3+150 Ch. 2+000-2+800	0 m	616466, 895508 616463, 895925 616525, 896542 (indicative point)	Negative	Direct	High	Potential Medium	Potential Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S1-AAP06	Wet area - south banks of Cloghroe River. N of Stranorlar & River Finn, rising ground at Lough Alaán to Dunwiley.	Ch. 8+000 - 8+550	0 m	616050, 892927 (indicative point)	Negative	Direct	High	Potential Medium	Potential Significant
S1-AAP07	Immediately adjacent the Burn Daurnett river network	Ch. 00 (roundabout) Ch. 400 Link Rd	0 m	611031, 893231 (indicative point)	Negative	Direct	High	Potential Medium	Potential Significant

Table 17-49: Section 1 Indirect Construction Stage Impacts on the Cultural Heritage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Impact Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
DG078-005---	Church (site of)	Ch 3+400	12 m SE	613389, 895443	Negative	Indirect	High	Medium	Significant
DG078-005001-	Holy Well	Ch. 3+400	35 m NW	613340, 895557	Negative	Indirect	High	Medium	Significant
DG078-003---	Ringfort – Rath	Ch 5+200	104 m SE	614615, 896773	Negative	Indirect	Medium	High	Significant
L115-2 / S1-BH02	Building	Ch. 4+400	35 m NW	613978, 896223	Negative	Indirect	High	Medium	Significant
RPS/NIAH 40907834	Vernacular long-house	Ch. 4+400	136 m NW	613895, 896285	Negative	Indirect	Medium	High	Significant
NIAH 40907720	Outbuilding	Ch. 1+900	30 m NW	612106, 894673	Negative	Indirect	High	Medium	Significant
L105-1	Enclosure Possible	Ch. 200 Link Rd	62 m NW	614954, 898345	Negative	Indirect	Medium	Potential Medium	Moderate
L123-6 / M166 / F-1-13	Building	Ch. 3+300	52 m S	613310, 895374	Negative	Indirect	High	Low	Moderate
F-1-01	Pair of ruined limekilns	Ch. 00 (S terminus)	14 m	610111, 892699	Negative	Indirect	High	Low	Moderate
F-1-12	Walled avenue	Ch. 3+300	40 m SE	613334, 895383	Negative	Indirect	High	Low	Moderate
F-1-17	Raised sub-circular area	Ch. 5+400	90 m NW	614570, 897121	Negative	Indirect	High	Low	Moderate
F-1-19	Denuded stone wall	Ch. 250 Link Rd	62 m NW	614858, 897683	Negative	Indirect	High	Low	Moderate
Logue's Bridge	Logue's Bridge	Ch. 2+400	61 m W/NW	612413, 895026	Negative	Indirect	High	Low	Moderate
DG069-024---	Ringfort – unclassified	Ch 250 – northern terminus road junction	160 m NW	615698, 899516	Negative	Indirect	Low	Medium	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Impact Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
L102-1	Barrow Possible	Ch. 572 Link Rd Tie-in at N13 N terminus	114 m NE	616120, 900387	Negative	Indirect	Low	Potential Medium	Slight
L105-2	Pit	Ch. 250 Link Rd	112 m N/NW	614979, 898402	Negative	Indirect	Medium	Low	Slight
L105-3	Building	Ch. 200 Link Rd	75 m SE	614957, 898099	Negative	Indirect	Medium	Low	Slight
L106-3 / M46	Farmstead	Ch. 1+150 Link Rd	91 m NE	615757, 897990	Negative	Indirect	Medium	Low	Slight
L129-2	Building	Ch. 200 Link Rd	103 m W	611758, 894901	Negative	Indirect	Medium	Low	Slight
F-1-05	Ruined lime kiln	Ch. 1+550	45 m N	612940, 894368	Negative	Indirect	Low	Low	Slight
M36	Limekiln	Ch. 100 Side Rd	5 m NE Side Rd	614914, 898165	Negative	Indirect	Low	Low	Slight
M52	Well	Ch. 6+500	22 m NW	615239, 897927	Negative	Indirect	Low	Low	Slight
M66	Limekiln	Ch. 189 Side Rd	21 m E	614928, 897137	Negative	Indirect	Low	Low	Slight
M84	Limekiln	Ch. 974 Side Rd	51 m S	614336, 896042	Negative	Indirect	Low	Low	Slight
M134	Limekiln	Ch. 5+250	41 m NW	614472, 896975	Negative	Indirect	Low	Low	Slight
M137	Limekiln	Ch. 400 Side Rd	27 m SE	614123, 896597	Negative	Indirect	Low	Low	Slight
M148	Limekiln	Ch. 4+300	34 m SE	613932, 896162	Negative	Indirect	Low	Low	Slight
M149	Limekiln	Ch. 0 Side Rd	28 m W	613785, 896162	Negative	Indirect	Low	Low	Slight
M163	Well	Ch. 3+450	34 m NW	613364, 895598	Negative	Indirect	Low	Low	Slight
M180	Limekiln	Ch. 100 Link Rd	24 m W	611861, 895022	Negative	Indirect	Low	Low	Slight
M192	Limekiln	Ch. 2+000	39 m NW	612173, 894776	Negative	Indirect	Low	Low	Slight
M203	Limekiln	Ch. 700 Side Rd	17 m SE	612168, 894447	Negative	Indirect	Low	Low	Slight
M211	School house/ Dispensary	Ch. 0 Online Upgrade	0 m	612063, 894343	Negative	Indirect	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Impact Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
M215	Limekiln	Ch. 0 Junction Link	87 m NW	611776, 894636	Negative	Indirect	Low	Low	Slight
M224	Limekiln	Ch. 0 Junction Link	105 m NW	611772, 894651	Negative	Indirect	Low	Low	Slight
M236	Limekiln	Ch. 00 Side Rd	108 m NW	611413, 894322	Negative	Indirect	Low	Low	Slight
M242	Limekiln	Ch. 1+150	63 m NW	611529, 894215	Negative	Indirect	Low	Low	Slight
M243	Vernacular structure	Ch. 100 Side Rd	41 m NW	611420, 894138	Negative	Indirect	Low	Low	Slight
M245	Vernacular structure	Ch. 1+300	19 m NW	611667, 894282	Negative	Indirect	Low	Low	Slight
M246	Limekiln	Ch. 0 Side Rd	0 m	611039, 893768	Negative	Indirect	Low	Low	Slight
M249	Vernacular structure	Ch. 550	74 m SE	611243, 893727	Negative	Indirect	Low	Low	Slight
M252	Vernacular structure	Ch. 400	52 m NE	611164, 893622	Negative	Indirect	Low	Low	Slight
M264	Limekiln	Ch. 400 (Attenuation Pond)	62 m E	611209, 893583	Negative	Indirect	Low	Low	Slight
M265	Limekiln	Ch. 150 Side Rd	31 m SW	611146, 893494	Negative	Indirect	Low	Low	Slight
M272	Limekiln	Ch. 100	11 m	611022, 893338	Negative	Indirect	Low	Low	Slight
M286	Ford	Ch. 50	90 m SE	611158, 893260	Negative	Indirect	Low	Low	Slight
M303	Vernacular structure	Ch. 0 Online Upgrade	0 m	610264, 892747	Negative	Indirect	Medium	Low	Slight
M747	Former flax dam	Ch. 00 (S terminus)	9 m W	610032, 892757	Negative	Indirect	Low	Low	Slight
DG069-023---	Bullaun Stone	Ch 50 – northern terminus local road junction	76 m SW	615738, 899723	Neutral	Indirect	Negligible	Low	Not Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Impact Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
DG069-028---	Ringfort – unclassified	Ch. 7+150	145 m SE	615779, 898309	Negative	Indirect	Negligible	Low	Not Significant
L129-1	Enclosure possible	Ch. 350 Link Rd	46m W	611761, 894735	Negative	Indirect	Negligible	Low	Not Significant
L141-2	Embankment	Ch. 00 Online tie-	23 m SE in S terminus	610302, 892767	Negative	Indirect	Low	Negligible	Imperceptible

17.3.3.2 Section 2 of the Proposed Development

Tabulated in Table 17-50 are details relating to identified direct and indirect impacts on the Cultural Heritage resource at construction stage for Section 2 of the Proposed Development. A consideration of the magnitude of impact and the value/sensitivity of the receptor has facilitated a determination of the significance of effect per impact assessment criteria set out in Section 17.1.2.6. All identified impacts are considered either temporary or short-term (<one year/one-seven years) reflecting indirect impacts associated with the construction period (e.g. noise, visual amenity distraction, heavy machinery movements etc.) or permanent in duration (>60 years) reflecting direct impacts and complete removal of a cultural heritage site/feature during the construction stage period.

In summary, there are a total of 58 no. Direct, 12 no. Indirect and 71 no. No predicted impact construction stage impacts on the Cultural Heritage resource for Section 2 of the proposed development (see Appendix C17.14 for No Predicted Impact datasets).

Section 2 Direct Construction Stage Impacts

Of the identified 58 No. direct construction stage impacts, six have moderate significance of effect. These refer to a recently recorded SMR site DG053-029---, and undesignated cultural heritage receptors including a former mill structure at Dromore House (F-2-06), two vernacular structures (M424 and M371 Drum Lodge), a lime kiln (M381) and a burnt spread TA2.

In addition, the Proposed Development at Section 2 directly traverses seven Areas of Archaeological Potential (S2-AAP01, S2-AAP04, S2-AAP05, F-2-01, F-2-03, F-2-04 and F-2-07)) and two rivers (S2-R01 and S2-R03) (clear span structures with piers at/near riverbanks, flood embankments and flood plains where applicable). The Value/Sensitivity of these receptors is currently unknown, and as such a cautionary higher grade value indicator for this dataset has been applied resulting in ten *Potential* Significant significance of effects. The identified direct impacts are tabulated in Table 17-51 and the significance of effects are summarised as follows:

- 0 Profound Negative
- 0 Very Significant Negative
- 0 Significant Negative
- 9 No. Potential Significant
- 6 No. Moderate Negative
- 13 No. Slight Negative
- 28 No. Not Significant
- 2 No. Imperceptible

Section 2 Indirect Construction Stage Impacts

Of the identified 12 No. Indirect construction stage impacts, three no. have indirect moderate significance of effect on the landscape setting and/or vibration risk. This relates to Dromore House (F-2-05) (setting), a former mill gable end (NIAH 40905390) (vibration), a former railway bridge (NIAH 40905394) (heavy machinery movements) and a former school-house (M366) (heavy machinery movements). The identified indirect impacts are tabulated in Table 17-52 and the significance of effects are summarised as follows:

- 0 Profound Negative
- 0 Very Significant Negative
- 0 Significant Negative
- 3 No. Moderate Negative
- 5 No. Slight Negative
- 3 No. Not Significant
- 1 No. Imperceptible

In addition, there are 71 No. identified cultural heritage receptors throughout the assessment corridor where No Predicted Impact was noted and measured as imperceptible significance of effects (see Table 17-60).

Section 2 Construction Stage Impacts Qualitative Assessment

In summary, there are a total of 58 No. direct, 12 No. indirect and 71 No. no predicted impact construction stage impacts on the Cultural Heritage resource for the Section 2 Proposed Development (see Appendix C17.14 for No Predicted Impact datasets). Total quantities of significance of effect are 141 No. for Section 2 of the Proposed Development. These are:

- 0 Profound Negative
- 0 Very Significant Negative
- 0 Significant Negative
- 9 no. Potential Significant
- 9 no. Moderate Negative
- 18 no. Slight Negative
- 43 no. Not Significant
- 62 no. Imperceptible

There is a total of nine identified construction stage moderate impacts on the cultural heritage resource for the Section 2 Study Area (see Table 17-50).

Table 17-50: Section 2 Significant/Moderate Direct and Indirect Impacts on the Cultural Heritage Resource at Construction Stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
DG053-059---	Possible Enclosure	Ch. 0+950 (Junction Arm)	0 m	620852, 911349	Direct	Very High	Medium	Moderate
F-2-05	Dromore House	Ch. 0+550	25 m	620009, 910748	Indirect	High	Low	Moderate
F-2-06	Dromore House Mill Structure	Ch. 1800 Link Rd	0 m	620024, 910833	Direct	High	Low	Moderate
TA2	Burnt Spread	Ch. 00 Junction Roundabout	0 m	621220, 911219	Direct	High	Low	Moderate
40905390	Mill	Ch. 0+400	77 m E/NE	620477, 910954	Indirect	High	Low	Moderate
40905394	Railway Bridge	Ch. 2+100	85 m W	619984, 910480	Indirect	Medium	Medium	Moderate
M371	House (Drum Lodge)	Ch. 0+100 (Access Rd)	0 m	620132, 910355	Direct	High	Low	Moderate
M381	Limekiln	Ch. 400 (Access Rd)	0 m	619856, 909825	Direct	High	Low	Moderate
M424	Vernacular structure	Ch. 300 (Access Rd)	0 m	622393, 911275	Direct	High	Low	Moderate

An enclosure at Drumgreggan townland (DG053-059---) has been recently assigned an SMR number. This receptor was identified by the LiDAR assessment conducted at OSR stage as a possible enclosure site and was also located within an identified area of archaeological potential. The Proposed Development bisects the subtle surface expression of the site (also cut by a field boundary). This site was subject to archaeological site investigations (TA6) (see Appendix C17.06f) in September 2025 and it was concluded that the raised circular area was likely a non-archaeological feature, possibly created as a result of extensive drainage in the immediate environs. Given the results of the archaeological site investigations, the recent addition to the SMR based on aerial photography and surface expression, and its partially levelled nature, this is considered a Very High magnitude direct negative impact, on a low value receptor resulting in a moderate significance of effect.

At the area of Dromore House in Dromore townland, a ruinous mill-related structure F-2-06 (indicated on 2nd ed OS mapping) is directly impacted by the Proposed Development, whilst the setting of Dromore House (F-2-05) is indirectly and temporarily impacted, with both considered moderate significance of effects at construction stage. The very ruinous (unstable) gable end remains of a former of a mill (NIAH 40905390), also at Dromore, is indirectly impacted by the Proposed Development during construction (vibration risk) and is considered a moderate significance of effect. A road over railway bridge (NIAH 40905394) at Dromore has a measurable indirect temporary impact of moderate significance of effect during construction stage works that relates to road movement of heavy construction vehicles at this location along the local road network.

There is a former vernacular farmstead (M424) at Drumardagh (indicated on 1st edition OS mapping) that is directly impacted by the Proposed Development and is considered a moderate significance of effect. There are also the remains of a limekiln (M381) at Drumany (indicated on 1st ed OS and 'disused' on 2nd ed OS mapping) as well as a levelled vernacular house arrangement 'Drum Lodge' (M371) (indicated on 1st ed OS mapping) that are both directly impacted by the Proposed Development and are considered moderate significance of effects.

At Trimragh, there is the recorded 'site of' a church (DG053-028---) and graveyard (DG053-028001-) along the existing N13 dual carriageway and has been subject to archaeological investigations as part of the current design proposals, with no trace of same encountered. As such, a slight significance of effect has been applied to these sites that may have been removed during construction of the former railway line (and now current N13) at this location. A burnt spread was encountered during the archaeological site investigations in this general area (TA2) which is directly impacted by the Proposed Development and is considered a moderate significance of effect.

It is noted that at ringfort site DG053-026--- at Ballyraine has been subject to archaeological geophysical survey as part of the current design proposals and the immediate adjacent area is within an extensively landscaped pitch and putt/dirt bike tracking area. The site is located outside the Proposed Development boundary/temporary Proposed Development boundary line and as such, construction stage impact on the levelled site is considered an indirect slight significance of effect.

A total of 13 no. direct slight impacts, 29 no. direct not significant impacts, two direct imperceptible impacts, five indirect slight impacts, three not significant indirect impacts and two imperceptible indirect impacts have also been noted within Section 2 Study Area for construction stage-related impacts.

A further ten areas/locations of archaeological potential (S2-AAP01, S2-AAP04, S2-AAP05, S2-R01, S2-R02, F-2-01, F-2-03, F-2-04, F-2-07 and L212-3) have also been noted throughout the Section 2 Study Area that have potential to retain presently undiscovered sub-surface archaeological features, deposits and/or artefacts. Construction stage related works for the Proposed Development within these areas are of potential negative direct and high levels of magnitude impact on such presently undiscovered archaeological remains and are considered potential significant impacts in this regard.

Table 17-51: Section 2 Construction Stage Direct Impacts on the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
DG053-059---	Possible Enclosure	Ch. 0+950 (Junction Arm)	0 m	620852, 911349	Negative	Direct	Very High	Medium	Moderate
S2-R01	River Swilly	Ch. 0500 Ballyraine Link Rd	0 m	619071, 911692	Negative	Direct	Medium	Medium	Potential Significant
S2-R02	Milk Isle channels (2 No.)	Ch. 0750 and Ch. 0+950 Ballyraine Link Rd	0 m	619216, 911509 & 619332, 911316	Negative	Direct	Medium	Medium	Potential Significant
F-2-06	Dromore House Mill Structure	Ch. 1800 Link Rd	0 m	620024, 910833	Negative	Direct	High	Low	Moderate
M381	Limekiln	Ch. 400 (Access Rd)	0 m	619856, 909825	Negative	Direct	High	Low	Moderate
M424	Vernacular structure	Ch. 300 (Access Rd)	0 m	622393, 911275	Negative	Direct	High	Low	Moderate
TA2	Burnt Spread	Ch. 00 Junction Roundabout	0 m	621220, 911219	Negative	Direct	High	Low	Moderate
M371	House (Drum Lodge)	Ch. 0+100 (Access Rd)	0 m	620132, 910355	Negative	Direct	High	Low	Moderate
DG053-028---	Church – site of	Ch. 1+450 (online)	0 m	621387, 911469	Neutral	Direct	High	Negligible	Slight
DG053-028001-	Graveyard – site of	Ch. 1+450 (online)	0 m	621387, 911469	Neutral	Direct	High	Negligible	Slight
S2-BH04	Disused railway line	Ch. 2+100	0 m	620134, 910487	Negative	Direct	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
M340	Milepost	Ch. 0+250	0 m	619751, 910642	Negative	Direct	High	Low	Slight
M342	Limekiln	Ch. 2+300	0 m	620127, 910657	Negative	Direct	High	Low	Slight
M334	Level crossing	Ch. 0+550	0 m	620033, 910714	Negative	Direct	Medium	Low	Slight
S2-T01	Mature tree/hedgerow	Ch. 0+150	0 m	619704, 907808	Negative	Direct	Medium	Low	Slight
S2-T02	Commercial forestry at Ch. 0+500. Mature tree/hedgerow elsewhere	Ch. 0+300 (Access Rd) Ch. 0+250 (Access Rd)	0 m	619591, 908984 619450, 908799 619400, 908725	Negative	Direct	Medium	Low	Slight
S2-T04	Coaghmill stream ditch and bank with hedgerow	Ch. 0+175 (Access Rd)	0 m	619640, 909701	Negative	Direct	Medium	Low	Slight
S2-T09	Bank and ditch/stream with mature hedge, extends to river Swilly	Ch. 0+250 (Link Rd) Ch. 1+300	0 m	619750, 910710 619620, 910990 619579, 911064 619522, 911138	Negative	Direct	Medium	Low	Slight
S2-T10	Bank/ditch along reclaimed ground near Swilly	Ch. 0+950 Ch. 0+750	0 m	619329, 911316 619212, 911512	Negative	Direct	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
S2-T12	Farsetmore stream lined with mature trees and vegetation save for portion at existing N13	Ch. 0+150 (junction link) Ch. 0+100 (junction link) Ch. 0+050 (junction link) Ch. 1+250 online Ch. 0+100 (junction link)	0 m	621261, 911073, 621234, 911196, 621233, 911281, 621224, 911339, 621217, 911447	Negative	Direct	Medium	Low	Slight
S2-T15	Magheramore stream, lined with mature vegetation	Ch. 2+900	0 m	622651, 911086	Negative	Direct	Medium	Low	Slight
M312	Vernacular structure (x2)	Ch. 250 Link Rd	13 m NE	618921, 911883	Negative	Direct	High	Negligible	Not Significant
M314	Well	Ch. 250 Link Rd.	7 m NE	618901, 911889	Negative	Direct	High	Negligible	Not Significant
M330	Well	Ch. 1+850	12 m W	920040, 910783	Negative	Direct	High	Negligible	Not Significant
M337	Vernacular structure	Ch. 0+525	0 m	620018, 910671	Negative	Direct	High	Negligible	Not Significant
M338	Vernacular structure	Ch. 0+500	9 m SW	620005, 910656	Negative	Direct	High	Negligible	Not Significant
M367	Well	Ch. 0+100 (Access Road)	0 m	620141, 910337	Negative	Direct	High	Negligible	Not Significant
M332	Sluice	Ch. 1+850	0 m	620034, 910811	Negative	Direct	High	Negligible	Not Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
M333	Mill pond	Ch. 1+850	0 m	620046, 910793	Negative	Direct	High	Negligible	Not Significant
M343	Spring	Ch.2+300	0 m	620186, 910691	Negative	Direct	High	Negligible	Not Significant
M344	Pond	Ch. 100 Side Rd	13 m S	620249, 910730	Negative	Direct	High	Negligible	Not Significant
M345	Spring	Ch. 749 Link Rd	27 m S	620363, 910847	Negative	Direct	High	Negligible	Not Significant
M346	Pond	Ch. 749 Link Rd	0 m	620371, 910877	Negative	Direct	High	Negligible	Not Significant
M349	Spring	Ch. 0+450 (online)	14 m N	620555, 910898	Negative	Direct	High	Negligible	Not Significant
M372	Pond	Ch. 2+050	11 m W	620047, 910450	Negative	Direct	High	Negligible	Not Significant
M384	Well	Ch. 400 (Access Rd)	5 m S	619873, 909706	Negative	Direct	High	Negligible	Not Significant
M385	Well	Ch. 0+950	0 m	619759, 909402	Negative	Direct	High	Negligible	Not Significant
M386	Well	Ch. 0+950	0 m	619729, 909451	Negative	Direct	High	Negligible	Not Significant
M387	Vernacular structure	Ch. 1+000	10 m W	619709, 909472	Negative	Direct	High	Negligible	Not Significant
M391	Well	Ch. 100 (N Junction link)	0 m	620733, 911199	Negative	Direct	High	Negligible	Not Significant
M392	Vernacular structure	Ch. 100	11 m SW	620749, 911154	Negative	Direct	High	Negligible	Not Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
M393	Spring	Ch. 150	13 m SE	620798, 911204	Negative	Direct	High	Negligible	Not Significant
M404	Flax Mill	Ch. 150 (S Junction Link)	6 m S	621239, 911174	Negative	Direct	High	Negligible	Not Significant
M405	Mill pond	Ch. 200 (S Junction Link)	26 m W	621257, 911140	Negative	Direct	High	Negligible	Not Significant
M421	Spring	Ch. 1+100 Link Rd	0 m	622145, 911576	Negative	Direct	High	Negligible	Not Significant
M446	Well	Ch. 00 Roundabout	25 m W	619452, 908723	Negative	Direct	High	Negligible	Not Significant
M447	Vernacular structure	Ch. 00 Roundabout	0 m	619492, 908753	Negative	Direct	High	Negligible	Not Significant
M448	Limekiln	Access Rd Online Access Upgrade	0 m	619601, 908575	Negative	Direct	High	Negligible	Not Significant
M454	Well	Ch. 00 Roundabout	26 m W	619451, 908721	Negative	Direct	High	Negligible	Not Significant
M339	Vernacular structure (on an existing rd)	Ch. 0+500	0 m	619997, 910630	Neutral	Direct	Negligible	Negligible	Imperceptible
M341	Vernacular structure (Smithy) (on an existing rd)	Ch. 0+550	4 m S	620041, 910638	Neutral	Direct	Negligible	Negligible	Imperceptible

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S2-AAP01	Area of potential adjacent ringfort 'White fort' DG053-026--- Estuarian and floodplains of River Swilly at area of Milk Isle (Ref. F-2-04 Brickworks and flint artefact finds on shores of Swilly)	Ch. 0+150 – 0+950 Link Rd	0 m	618938, 911805	Negative	Direct	High	Potential Medium	Potential Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
S2-AAP04	Area of elevated well-drained ground at the northern area of Drumreggan townland (Field survey F-2-07 and LiDAR enclosure L212-3 area/ DG053-059--- possible enclosure, also overlooks Farsetmore fording point and location of Battle are on northern banks of Swilly within vicinity of Trimragh 'site of church and graveyard DG053-028---)	Ch. 0 – 0+550, roundabout and Ch. 00 – 0+100 of northern Trimragh junction arm links	0 m	621081, 911333	Negative	Direct	High	Potential Medium	Potential Significant
S2-AAP05	Natural level platform area on elevated position (Ref. F-2-03) and higher ground - SE rising ridge, above River Swilly (at north) (Ref. F-2-01)	Ch. 1+200-1+800 Ch. 0+850-1+050	0 m	619778, 909897, 619747, 909427	Negative	Direct	High	Potential Medium	Potential Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
F-2-01	AAP	Ch. 0+950	0 m	619747, 909427	Negative	Direct	High	Potential Medium	Potential Significant
F-2-03	AAP	Ch. 1+450	0 m	619778, 909897	Negative	Direct	High	Potential Medium	Potential Significant
F-2-04	AAP: Former Brickworks	Ch. 700 Link Rd	0 m	619185, 911553	Negative	Direct	High	Potential Medium	Potential Significant
F-2-07	AAP	Ch. 350 N Junction Arm	0 m	620974, 911242	Negative	Direct	High	Potential Medium	Potential Significant

Table 17-52: Section 2 Construction Stage Indirect Impacts on the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
40905390	Mill	Ch. 0+400	77 m E/NE	620477, 910954	Negative	Indirect	High	Low	Moderate
40905394	Railway Bridge	Ch. 2+100	85 m W	619984, 910480	Negative	Indirect	Medium	Medium	Moderate
F-2-05	Dromore House	Ch. 0+550	25 m	620009, 910748	Negative	Indirect	High	Low	Moderate
DG053-026---	Ringfort	Ch. 0+350	65 m	618900, 911715	Neutral	Indirect	Low	Low	Slight
40906111	Bridge	Ch. 00	130 m SE	619915, 907605	Negative	Indirect	Low	Medium	Slight
M379	Well	Ch. 500 (Access Rd)	19 m N	619934, 909833	Negative	Indirect	Low	Low	Slight
M380	Well	Ch. 500 (Access Rd)	26 m N	619939, 909842	Negative	Indirect	Low	Low	Slight
S2-BH02	Former Railway Line	Ch. 2+500	35 m SW	622278, 911023	Negative	Indirect	Low	Low	Not Significant
40905301	Leck COI Church	Ch00 N13 online upgrade	18 m E	619518, 910103	Negative	Indirect	Negligible	Medium	Not Significant
F-2-02	Fairy Tree - possible	Ch. 550 Access Rd	34 m S	620014, 909778	Negative	Indirect	Low	Low	Not Significant
M313	Vernacular structure (x4)	Ch. 350 Link Rd	59 m SE	618903, 911711	Negative	Indirect	Low	Negligible	Imperceptible
M366	School House	Ch. 0+100 (Access Road)	8 m E	620156, 910343	Negative	Indirect	Medium	Low	Slight

17.3.3.3 Section 3 of the Proposed Development

Tabulated in Table 17-53 are details relating to identified direct and indirect impacts on the Cultural Heritage resource at construction stage for Section 3 of the Proposed Development. A consideration of the magnitude of impact and the value/sensitivity of the receptor has facilitated a determination of the significance of effect per impact assessment criteria set out in Section 17.1.2.6. All identified impacts are considered either temporary or short-term (<one year/one-seven years) reflecting indirect impacts associated with the construction period (e.g. noise, visual amenity distraction, heavy machinery movements etc.) or permanent in duration (>60 years) reflecting direct impacts and complete removal of a cultural heritage site/feature during the construction stage period.

In summary, there are a total of 139 No. Direct and 67 No. Indirect and 78 No. No predicted impact construction stage impacts on the Cultural Heritage resource for the Section 3 of the proposed development (see Appendix C17.14 for No Predicted Impact datasets).

Section 3 Direct Construction Stage Impacts

Of the identified 139 No. direct construction stage impacts, one has Very Significant significance of effect on the parkland (DG0040) of Croaghan House (NIAH 40835028) at Carricknaslate townland. There is a further Significant significance of effect on the former demesne (DG0028) of Cavanacor House (RPS 40907026 / NIAH 40834001).

In addition, Section 3 of the Proposed Development directly traverses 11 no. Areas of Archaeological Potential (S3-AAP01, S3-AAP02, S3-AAP03, S3-AAP04, S3-AAP05, S3-AAP06, F-3-07, F-3-08, F-3-10, F-3-11 and F-3-12) and three rivers (S3-R01, S3-R02, S3-R03) (clear span structures with piers at/near riverbanks, flood embankments and flood plains where applicable). The Value/Sensitivity of these areas of potential is currently unknown, and as such as cautionary higher grade value indicator for this dataset has been applied resulting in 14 no. *Potential Significant* significance of effects. There are also a further four archaeological LiDAR anomalies whereby *Potential Significant* (three no.) and *Potential Slight* (one no.) significance of effect has been applied. A total of 17 no. direct effects are considered Not Significant. The identified direct impacts are tabulated in Table 17-54 with the significance of effects summarised as follows:

- 0 Profound Negative
- 1 No. Very Significant Negative
- 1 No. Significant Negative
- 17 no. *Potential Significant*
- 21 No. Moderate Negative
- 81 No. Slight Negative
- 1 No. *Potential Slight*
- 17 No. Not Significant

Section 3 Indirect Construction Stage Impacts

Of the identified 67 No. indirect construction stage impacts, one has been identified as a Very Significant significance of effect on Croaghan House (NIAH 40835028) and a Significant significance of effect at Cavanacor House (RPS 40907026), a former railway master's station house (NIAH40834014), a manse (NIAH 40827011) and two outbuildings (NIAH 40834006 and 40906245). The identified indirect impacts are tabulated in Table 17-55 and the significance of effects are summarised as follows:

- 0 Profound Negative
- 1 No. Very Significant Negative
- 5 No. Significant Negative
- 11 No. Moderate Negative
- 36 No. Slight Negative
- 11 No. Not Significant
- 4 No. Imperceptible

In addition, there are 78 No. identified cultural heritage receptors throughout the assessment corridor where No Predicted impact was noted and these have been measured as imperceptible significance of effects (see Table 17-61).

Section 3 Construction Stage Impacts Qualitative Assessment

In summary, there are a total of 207 No. construction stage impacts on the Cultural Heritage resource for Section 3 of the Proposed Development. These consist of 139 No. direct and 68 No. indirect impacts. It is also noted that there are 78 No. no predicted impacts on the cultural heritage resource for Section 3 of the Proposed Development (see Appendix C17.14). Total quantities of significance of effect are 285 No. for Section 3 of the Proposed Development are:

- 0 Profound Negative
- 2 No. Very Significant Negative
- 6 No. Significant Negative
- 17 No. Potential Significant
- 32 No. Moderate Negative
- 117 No. Slight Negative
- 1 No. Potential Slight
- 28 No. Not Significant
- 82 No. Imperceptible

There are a total of two identified construction stage Very Significant (one direct and one indirect impact) and six Significant (one direct and five indirect impacts) on the cultural heritage resource for the Section 3 Study Area (see Table 17-53). All relate to the built heritage of the Study Area, one of which is listed on the Record of Protected Structures (Cavanacor House RPS 40907026 / NIAH 40834001) (indirect impact).

Table 17-53: Section 3 Significant Direct and Indirect impacts on the Cultural Heritage Resource at Construction Stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
DG0040	Carricknaslate Historic Garden	Ch. 16+800	0 m	632483, 897992	Direct	High	Medium	Very Significant
40835028	Croaghan House	Ch. 16+800	66 m W	632331, 897998	Indirect	High	Medium	Very Significant
RPS 40907026 / NIAH 40834001	Cavanacor House (incl gate-lodge and entrances)	Ch. 1+300 (Side Rd)	178 m N	631322, 900236	Indirect	Medium	High	Significant
DG0028	Cavanacor Historic Garden	Ch. 14+000	0 m	631244, 900234	Direct	Medium	High	Significant
40834014	Station Master's House	Ch. 0+200 Side Rd	4 m	630394, 900308	Indirect	High	Low	Significant
40827011 / M509,	Manse	Ch. 0+200	53 m NE	623692, 910766	Indirect	Medium	Medium	Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
M482 & M483, M498								
40834006	Outbuilding	Ch. 14+600	17 m NE	631361, 899575	Indirect	High	Medium	Significant
40906245 / M565	Outbuilding	Ch. 3+500	31 m NE	625893, 908742	Indirect	Medium	Medium	Significant

Croaghan House (NIAH 40835028) and its associated parkland (DG0040) at Carricknaslate, Lifford are indirectly and directly negatively affected by the Proposed Development respectively. The alignment of the Proposed Development extends northwards through the central portion of the parkland, crossing the access avenue, and located northeast/east/southeast of the house and its immediate setting (see Chapter 18: Landscape and Visual, Photomontage Section 3 VP 14). Both the direct impact on the parkland and indirect (temporary) construction stage impact on the house and its overall character/visual attraction setting within the parkland are considered Very Significant impacts.

Cavanacor House (RPS 40907026 / NIAH 40834001) and former demesne (DG0028) are indirectly and directly negatively affected by the Proposed Development respectively. The alignment of the Proposed Development traverses along the western edge of the former demesne lands, crossing the River Deelee, whilst a proposed new side road arrangement accessing the village of Ballindrait extends south of the existing local road network along which the entrances and former (later) derelict gate-lodge to Cavanacor are located (see Chapter 18: Landscape and Visual, Photomontage Section 3 VP 8 and VP 16). Both the direct impact on the former demesne lands and temporary indirect impact on the house during construction stage (visual/noise distraction on character and setting) are considered significant impacts.

A former Station Master's House (NIAH 40834014) associated with the former Strabane and Letterkenny Railway (S&LR) (1909-1960), located north of Ballindrait village, is indirectly impacted by the Proposed Development and is considered a significant impact. It is noted that the Proposed Development also crosses and directly impacts the former S&LR railway line at two locations in this area (L345-3) which are considered moderate impacts.

The former presbyterian manse at Glebe, Manorcunningham (NIAH 40827011/ M509/M482/M483 and M498) and associated outbuildings are located adjacent to the Proposed Development, at a slightly elevated position. The overall character/visual attraction setting of same is temporarily indirectly affected by the alignment of the Proposed Development during construction stage and is considered a significant impact.

There are two outbuildings (NIAH 40834006 and NIAH 40906245/M565) at Murlough and Mondooy Lower townlands respectively. The Proposed Development traverses immediately adjacent to these structures/building complexes with temporary indirect impact on the overall character/visual attraction setting of same during construction stage considered a significant impact.

There is a total of 32 No. moderate (21 no. direct/ 11 no. indirect) impacts identified within the Section 3 Study Area. The direct moderate impacts refer to a range of features/anomalies observed from archaeological LiDAR assessment, field survey and historical OS map reviews (former road former milling - related features, former farmsteads, bridge, wells, lime kilns, possible fairy tree, tree plantation, etc.) as well as a prehistoric pit feature identified at Carnshannagh (TA2) during archaeological site testing investigations (see Table 17-54 and Table 17-55).

Indirect moderate impacts for Section 3 refer to recorded archaeological sites at Pluck standing stone (DG054-038--- National Monument Ref. 453), site of standing stone DG070-048--- at Murlough (inside Proposed Development boundary line) and a souterrain (SMR DG070-082---) with enclosing ditch (Curraghalane 1) and a small Neolithic settlement site (Curraghalane 2), all within area TA5 (outside

Proposed Development boundary/temporary Proposed Development boundary line). The standing stone RMP DG054-038---/National Monument Ref. 453 at Pluck is located on the southern banks of the Corkey River on a low rise, with the Proposed Development including a Link Road, located c. 260 m to the northeast on the opposite side of the river and to the rear of modern housing. The souterrain and enclosure site DG070-082--- is a levelled site and located north of the banks of the River Finn and immediately adjacent the Proposed Development boundary/temporary boundary line. There is also indirect temporary moderate impact noted at St Patrick's church (RPS), bell tower (NIAH/RPS) and Manse (NIAH) at Murlough, at former railway structures near Ballindrait (NIAH 40834017 and NIAH 40834011) (within Proposed Development boundary/temporary boundary line) and at a former house/cottage at Carnshannagh (NIAH 40906262). Furthermore, at the N14/N15 to A5 Link area, Castletown House (HB10/08/007) and Carricklee gate-lodge (HB10/08/004C) are noted to have negative indirect temporary moderate impacts at construction stage (see Chapter 18: Landscape and Visual, Photomontage VP 15 and VP 13 respectively).

A total of 81 no. direct slight impacts, 17 no. direct not significant impacts, 36 no. indirect slight impacts, eleven not significant indirect impacts and four imperceptible indirect impacts have also been noted within Section 3 Study Area for construction stage-related impacts (see Table 17-54, Table 17-55, and Table 17-61). A total of 78 No. No predicted impacts are also noted. There is a direct slight impact on the site of a 1588 battle (TYR004:008) on the southern banks of the River Finn at the N14/N15 to A5 Link tie-in within the Northern Ireland jurisdiction. The field in this area has been heavily modified with the former Donegal Railway line having traversed same (now removed). Given the previous levels of disturbance and the limited footprint extent of the Proposed Development within this wider area that designated as the location of a battle site, the significance of the impact is considered slight.

It is noted that an imperceptible indirect impact is noted at enclosure DG062-024--- at Carnshannagh. The site is recorded as located within the Proposed Development boundary line/temporary boundary line however findings from detailed archaeological test investigations indicated no sub-surface trace of the recorded site at this location. The former Annie Tourish's pub (RPS 40906203) is entirely levelled, and the Proposed Development marginally encroaches within the plot area at the southwest corner and is considered a slight impact on any potential sub-surface remains of the site.

Croaghan Hill hillfort and passage tomb site (DG070-074001- and DG070-074002-) has been noted to be an important mythological, archaeological and historical site (see Section 17.2.1.3) and is located 2.5 km distant (west) from the Proposed Development. The hillfort and passage tomb also retains a preservation order and as such as been assigned a high value rating. However, although sited at an elevated position on the hilltop, with Kilmonaster passage tomb cemetery to the west, the north-eastern ridge shoulder of the hill as well as overall distance to the N14/N15 to A5 Link and the Proposed Development serve to reduce any potential indirect impact on amenity value and/or setting during construction stage to a negligible level of magnitude impact, resulting in a Not Significant significance of effect.

There are three possible archaeological LiDAR anomalies (L307-3, L334-4 and L338-8) that have direct potential significant impacts as part of the Proposed Development, and another LiDAR anomaly L345-2 which is identified as a potential slight impact. A further 14 no. areas/locations of archaeological potential (S3-AAP01 – S3AAP06, S3-R01 – S3R03, F-3-07, F-3-08/M610/M611, F-3-10, F-3-11, F-3-12) have also been noted throughout the Section 3 Study Area that have potential to retain presently undiscovered sub-surface archaeological features, deposits and/or artefacts. Construction stage related works for the Proposed Development within these areas are of potential negative direct and high levels of magnitude impact on such presently undiscovered archaeological remains and are considered *potential* significant impacts in this regard.

Table 17-54: Section 3 Direct Construction Stage Impacts on the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
DG0040	Carricknaslate	Ch. 16+800	0 m	632483, 897992	Negative	Direct	High	Medium	Very Significant
DG0028	Cavanacor	Ch. 14+000	0 m	631244, 900234	Negative	Direct	Medium	High	Significant
S3-R01	Swilly Burn	Ch. 11+500	0 m	629459, 902062	Negative	Direct	Medium	Medium	Potential Significant
S3-R02	Deele River	Ch. 14+400	0 m	631116, 899722	Negative	Direct	Medium	Medium	Potential Significant
S3-R03	River Finn	Ch. 0+300	0 m	632622, 896992	Negative	Direct	Medium	Medium	Potential Significant
TA3	Prehistoric settlement/camp area: pit (C.46 & C.48)	Ch. 8-950	0 m	628633, 904427	Negative	Direct	High	Low	Moderate
L321-1	Road	Ch. 5+500	0 m	627276, 907480	Negative	Direct	High	Low	Moderate
L338-1 / M657, M672, M673, M674	Mill Pond	Ch. 10+400	0 m	629385, 903135	Negative	Direct	High	Low	Moderate
L338-2	Mill race	Ch. 10+400	0 m	629480, 903902	Negative	Direct	High	Low	Moderate
L338-6	Mill race	Ch. 10+400	0 m	629471, 903097	Negative	Direct	High	Low	Moderate
L338-7	Mill pond	Ch. 10+400	0 m	629383, 903143	Negative	Direct	High	Low	Moderate
L354-2 / M715	Farmstead	Ch. 14+800	0 m	631415, 899424	Negative	Direct	High	Low	Moderate
L354-4	Farmstead	Ch. 14+800	0 m	631406, 899417	Negative	Direct	High	Low	Moderate
L354-5 / M720	Well	Ch. 14+950	0 m	631480, 899314	Negative	Direct	High	Low	Moderate
F-3-01 / M510 & M511	Holme farmstead	Ch. 1+250	0 m	624585, 910362	Negative	Direct	High	Low	Moderate

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
F-3-04 / M555	Lime Kiln, stone wall, laneway	Ch. 2+300	0 m	625516, 909875	Negative	Direct	High	Low	Moderate
F-3-05	Tree Plantation	Ch. 2+600	0 m	625624, 909642	Negative	Direct	High	Low	Moderate
F-3-13 / M652	Ruined cottage	Ch. 9+400	0 m	628866, 904004	Negative	Direct	High	Low	Moderate
F-3-14	Bridge	Ch. 9+250	0 m	628737, 904066	Negative	Direct	High	Low	Moderate
M501	Vernacular structure	Ch. 0+000 Side Road	0 m	623646, 910487	Negative	Direct	High	Low	Moderate
M529	Flax Mill	Ch. 2+000	0 m	625292, 910073	Negative	Direct	High	Low	Moderate
M530	Mill Pond	Ch. 2+000	22 m S	625182, 910017	Negative	Direct	High	Low	Moderate
M531	Mill Race	Ch. 2+000	0 m	625256, 910048	Negative	Direct	High	Low	Moderate
M616	Flax Mill	Ch. 7+200	0 m	628049, 905998	Negative	Direct	High	Low	Moderate
M652	Flax Mill	Ch. 9+300	0 m	628850, 904016	Negative	Direct	High	Low	Moderate
F-3-03	Fairy Tree - possible	Ch. 1+800	0 m	625134, 910177	Negative	Direct	High	Low	Moderate
TYR004:008	Battle Site (1588)	Ch. 0+300	0 m (along riverbank)	632345, 896492	Negative	Direct	Low	Medium	Slight
L310-1	Former railway	Ch. 2+200	0 m	625422, 909973	Negative	Direct	Medium	Low	Slight
L345-3	Former railway	Ch. 14+100 and Ch. 0+300 (Side Rd)	0 m	630581, 900102	Negative	Direct	Medium	Low	Slight
L349-3/ M704	Limekiln	Ch 0+300 Junction	0 m	630765, 900183	Negative	Direct	High	Low	Slight
RPS 40906203	House (Annie Tourish's) (Demolished)	Ch. 0+100 Side Rd	0 m	628776, 903969	Negative	Direct	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
F-3-02	Carrickbally-dooley farmstead and laneway	Ch. 1+500	0 m	624856, 910326	Negative	Direct	Medium	Low	Slight
M496	Milepost	Ch 0+300	0 m	623706, 910620	Negative	Direct	High	Low	Slight
M522	Vernacular structure	Ch. 1+800	0 m	625094, 910176	Negative	Direct	High	Low	Slight
M533	Sluice	Ch. 2+000	0 m	625303, 910079	Negative	Direct	High	Low	Slight
M534	Weir	Ch. 2+000	0 m	625305, 910067	Negative	Direct	High	Low	Slight
M555	Limekiln	Ch. 0+00 Junction	0 m	625526, 909857	Negative	Direct	High	Low	Slight
M559	Limekiln	Ch. 3+400	6 m E	625811, 908842	Negative	Direct	High	Low	Slight
M566	Well	Ch. 0+100 Side Road	0 m	625921, 908807	Negative	Direct	High	Low	Slight
M571	Milestone	Ch. 0+100 Side Road (online upgrade N14)	0 m	626378, 908509	Negative	Direct	High	Low	Slight
M597	Smithy	Ch. 0+000 Side Road (online N14)	0 m	627077, 907688	Negative	Direct	High	Low	Slight
M599	Vernacular structure	Ch. 0+200 Side Road (online N140)	36 m W	627084, 907619	Negative	Direct	High	Low	Slight
M607	Milestone	Ch. 6+200	0 m	627504, 906827	Negative	Direct	High	Low	Slight
M628	Vernacular structure	Ch. 7+800	0 m	628230, 905403	Negative	Direct	High	Low	Slight
M637	Milestone	Ch. 0+150 Side Road	5 m	628364, 904987	Negative	Direct	High	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
M651	Mill Pond	Ch. 9+300	0 m	628775, 904049	Negative	Direct	High	Low	Slight
M652	Flax Mill	Ch. 9+350	0 m	628850, 904016	Negative	Direct	High	Low	Slight
M657	Mill Pond	Ch. 10+400	0 m	629383, 903168	Negative	Direct	High	Low	Slight
M668	Mill Pond	Ch. 0+000 Side Road	0 m	629785, 903091	Negative	Direct	High	Low	Slight
M672	Mill Pond	Ch 10+400	0 m	629386, 903143	Negative	Direct	High	Low	Slight
M674	Sluice	Ch 10+400	0 m	629405, 903129	Negative	Direct	High	Low	Slight
M693	Vernacular structures	Ch. 0+150 Side Road	0 m	630636, 900658	Negative	Direct	High	Low	Slight
M694	Well	Ch. 13+300	23 m SW	630526, 900672	Negative	Direct	High	Low	Slight
M695	Vernacular structure	Ch. 0+100 Side Road	0 m	630471, 900646	Negative	Direct	High	Low	Slight
M696	Vernacular structure	Ch. 0+100 Side Road	0 m	630477, 900660	Negative	Direct	High	Low	Slight
M697	Vernacular structure	Ch. 0+100 Side Road	14 m W	630469, 900675	Negative	Direct	High	Low	Slight
M698	Vernacular structure – birthplace of Rev James Porter, Tamnawood	Ch. 0+000 Side Road	2 m E	630462, 900558	Negative	Direct	Medium	Low	Slight
M715	Vernacular structure	Ch. 14+800	0 m	631411, 899402	Negative	Direct	High	Low	Slight
M714	Vernacular structures	Ch. 14+800	0 m	631392, 899367	Negative	Direct	High	Low	Slight
M724	Vernacular structure	Ch. 15+400	0 m	631903, 899166	Negative	Direct	High	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
M725	Vernacular structure	Ch. 15+400	13 m S	631903, 899130	Negative	Direct	High	Low	Slight
S3-T01	Raymoghly/Glebe	Ch. 0+200	0 m	623589, 910669	Negative	Direct	Medium	Low	Slight
S3-T02	Glebe/Raymoghly	Ch. 0+300	0 m	623712, 910627	Negative	Direct	Medium	Low	Slight
S3-T03	Raymoghly/Labbadish	Ch. 0+700	0 m	624099, 910550	Negative	Direct	Medium	Low	Slight
S3-T04	Labbadish/Raymoghly	Ch. 1+100	0 m	624467, 910470	Negative	Direct	Medium	Low	Slight
S3-T05	Raymoghly/Carrickballydooley	Ch. 1+200	0 m	624605, 910429	Negative	Direct	Medium	Low	Slight
S3-T06	Carrickballydooley/ Carrickballydooley y Glebe	Ch. 1+800	0 m	625105, 910196 625114, 910241	Negative	Direct	Medium	Low	Slight
S3-T07	Carrickballydooley y Glebe/ Tullybogly	Ch. 1+800	0 m	625133, 910172 625238, 910173	Negative	Direct	Medium	Low	Slight
S3-T08	Tullybogly/Drumoghill	Ch. 2+000	0 m	625308, 910069	Negative	Direct	Medium	Low	Slight
S3-T09	Drumoghill/Drumcarn	Ch. 2+600	0 m	625627, 909615	Negative	Direct	Medium	Low	Slight
S3-T10	Drumcarn/Mondooney Lower	Ch. 3+200	0 m	625693, 909067	Negative	Direct	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S3-T11	Mondooney Lower/ Mondooney Middle	Ch. 4+100	0 m	626256, 908358	Negative	Direct	Medium	Low	Slight
S3-T12	Mondooney Middle/ Doorabble	Ch. 4+500	0 m	626621, 908259	Negative	Direct	Medium	Low	Slight
S3-T13	Doorabble/ Ballyholey Far	Ch. 4+800	0 m	626941, 908063	Negative	Direct	Medium	Low	Slight
S3-T14	Drumatoland/ Sheskinapoll	Ch. 5+900	0 m	627397, 907130	Negative	Direct	Medium	Low	Slight
S3-T15	Sheskinapoll/ Ballyholey Far	Ch. 6+550	0 m	627669, 906538	Negative	Direct	Medium	Low	Slight
S3-T16	Sheskinapoll/ Slievebuck	Ch. 6+550	0 m	627761, 906530	Negative	Direct	Medium	Low	Slight
S3-T17	Sheskinapoll/ Ballyholey Far	Ch. 6+600	0 m	627696, 906487	Negative	Direct	Medium	Low	Slight
S3-T18	Slievebuck/ Carrickadawson	Ch. 7+450	0 m	628072, 905735	Negative	Direct	Medium	Low	Slight
S3-T19	Carrickadawson/ Dromore Big	Ch. 7+850	0 m	628250, 905358	Negative	Direct	Medium	Low	Slight
S3-T20	Dromore Big/ Carn-shannagh	Ch. 8+200	0 m	628363, 905080	Negative	Direct	Medium	Low	Slight
S3-T21	Dromore Big/ Carn-shannagh	Ch. 0+450 side road	0 m	628352, 904952	Negative	Direct	Medium	Low	Slight
S3-T22	Carnshannagh/ Dromore Little	Ch. 9+300 & Ch. 0+500 side road	0 m	628826, 904068 628756, 904067 629052, 903867	Negative	Direct	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S3-T23	Drumbeg/ Drumfad	Ch. 9+700	0 m	629059, 903771	Negative	Direct	Medium	Low	Slight
S3-T24	Carnshannagh/ Drumfad	Ch. 0+800 side road	0 m	629212, 903626	Negative	Direct	Medium	Low	Slight
S3-T25	Drumfad/ Fedyglass	Ch. 10+000	0 m	629255, 903460	Negative	Direct	Medium	Low	Slight
S3-T26	Tullyrap/ Fedyglass	Ch. 10+200	0 m	629307, 903355	Negative	Direct	Medium	Low	Slight
S3-T27	Tullyrap/ Fedyglass	Ch. 10+400	0 m	629382, 903146	Negative	Direct	Medium	Low	Slight
S3-T28	Tullyrap/ Broadlea	Ch. 11+050	0 m	629464, 902486	Negative	Direct	Medium	Low	Slight
S3-T29	Broadlea/ Mulnaveagh	Ch. 11+500	0 m	629462, 902064	Negative	Direct	Medium	Low	Slight
S3-T30	Mulnaveagh/ Mass Beg	Ch. 11+600	0 m	629484, 901942 629554, 901864	Negative	Direct	Medium	Low	Slight
S3-T31	Mass Beg/ Sheercloon	Ch. 11+950	0 m	629615, 901635 629642, 901701	Negative	Direct	Medium	Low	Slight
S3-T32	Sheercloon/ Gortin North	Ch. 12+400	0 m	629926, 901307	Negative	Direct	Medium	Low	Slight
S3-T33	Tamnawood/ Ballindrait	Ch. 13+600	0 m	630718, 900408	Negative	Direct	Medium	Low	Slight
S3-T34	Ballindrait/ Cavanacor	Ch.13+900 and Ch. 14+000	0 m	630870, 900157 630877, 900084	Negative	Direct	Medium	Low	Slight
S3-T36	Tyleford/ Rossgeir	Ch. 1+450 side road	0 m	631550, 900123	Negative	Direct	Medium	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S3-T37	Cavanacor/ Ballynabreen	Ch. 14+400	0 m	631119, 899714	Negative	Direct	Medium	Low	Slight
S3-T38	Ballynabreen/ Murlough	Ch. 14+900	0 m	631480, 899339	Negative	Direct	Medium	Low	Slight
S3-T39	Murlough/ Lifford Common	Ch. 15+150	0 m	631667, 899282	Negative	Direct	Medium	Low	Slight
S3-T40	Lifford Common/ Drumboy	Ch. 15+600	0 m	632058, 899161	Negative	Direct	Medium	Low	Slight
S3-T41	Drumboy/ Lifford Common	Ch. 15+900	0 m	632307, 898889	Negative	Direct	Medium	Low	Slight
S3-T42	Lifford Common/ Townparks	Ch. 16+200	0 m	632384, 898611	Negative	Direct	Medium	Low	Slight
S3-T43	Townparks/ Carricknaslate	Ch. 16+650	0 m	632447, 898172	Negative	Direct	Medium	Low	Slight
S3-T44	Carricknaslate/ Coneyburrow	Ch. 16+900	0 m	632504, 897913 632464, 898059	Negative	Direct	Medium	Low	Slight
S3-T45	Carricknaslate/ Coneyburrow	Ch. 17+000	0 m	632498, 897814	Negative	Direct	Medium	Low	Slight
S3-T46	Coneyburrow/ Currghalane	Ch. 17+400	0 m	632516, 897472	Negative	Direct	Medium	Low	Slight
S3-T47	Currghalane/ Carricklee (NI)	Ch. 0+300 (N14/N15 to A5 Link)	0 m	632623, 896990	Negative	Direct	Medium	Low	Slight
M566	Well	Ch. 0+100 Side Road	0 m	625921, 908807	Negative	Direct	High	Negligible	Not Significant
M580	Well	Ch. 0+000 Side Road	0 m	626330, 908002	Negative	Direct	High	Negligible	Not Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
M584	Well	Ch. 4+500	0 m	626669, 908269	Negative	Direct	High	Negligible	Not Significant
M585	Limekiln	Ch.4+500	0 m	626679, 908268	Negative	Direct	High	Negligible	Not Significant
M586	Vernacular structure	Ch. 4+500	0 m	626663, 908280	Negative	Direct	High	Negligible	Not Significant
M598	Well	Ch. 0+000 Side Road (online N14)	0 m	627079, 907633	Negative	Direct	High	Negligible	Not Significant
M606	Limekiln	Ch. 0+300 Side Road	0 m	627567, 906835	Negative	Direct	High	Negligible	Not Significant
M610	Well	Ch. 6+600	0 m	627695, 906529	Negative	Direct	High	Negligible	Not Significant
M611	Vernacular structure	Ch. 6+600	13 m E	627738, 906490	Negative	Direct	High	Negligible	Not Significant
M626	Spring	Ch. 0+600 Side Road (online)	0 m	628241, 905435	Negative	Direct	High	Negligible	Not Significant
M653	Well	Ch. 9+300 (side road)	0 m	628751, 904043	Negative	Direct	High	Negligible	Not Significant
M675	Limekiln	Ch. 0+461 Side Road	0 m	629530, 902809	Negative	Direct	High	Negligible	Not Significant
M687	Well	Ch. 12+900	0 m	630325, 901020	Negative	Direct	High	Negligible	Not Significant
M711	Well	Ch. 14+800	0 m	631387, 899393	Negative	Direct	High	Negligible	Not Significant
M712	Well	Ch. 14+800	0 m	631362, 899380	Negative	Direct	High	Negligible	Not Significant
M713	Well	Ch. 14+800	10 m S	631360, 899367	Negative	Direct	High	Negligible	Not Significant
M735	Quarry	Ch. 16+300	0 m	632384, 898541	Negative	Direct	High	Negligible	Not Significant
L307-3	Mound Possible	Ch. 2+100	0 m	625373, 910041	Negative	Direct	High	Potential Medium	Potential Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
L334-4	Enclosure Possible	Ch. 8+300	20 m W	628453, 904952	Negative	Direct	Medium	Potential Medium	Potential Significant
L338-8	Burnt Mound possible	Ch. 10+000	0 m	629263, 903449	Negative	Direct	Medium	Potential Medium	Potential Significant
S3-AAP01	Central point ITM, wet marshy area, potential for <i>fulachta fiadh</i> Undulating and well-drained pasture, southerly aspect central ITM	Ch. 0+600 Ch. 2+300	0 m	623979, 910548 625492, 909853	Negative	Direct	High	Potential Medium	Potential Significant
S3-AAP02	Wet lowland pasture, AAP for <i>fulachta fiadh</i> and burnt spreads	Ch. 4+500	0 m	626597, 908265	Negative	Direct	High	Potential Medium	Potential Significant
S3-AAP03	Undulating rough pasture, flat areas, generally fair archaeological potential. Gently undulating/flat lands that reach northern banks of Swilly Burn wet area adjacent river (drainage interventions noted in field)	Ch. 9+900 Ch. 11+400	0 m	629186, 903572 629440, 902155	Negative	Direct	High	Potential Medium	Potential Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
	drains, flood embankments etc.). Swilly Burn is an important historical boundary and although channelised post-Plantation) may originally have had a much wider floodplain								
S3-AAP04	Area of standing stones (removed) high ground SE slopes high drumlin terrain falling to the Deelee River below N and S banks and lands at River Deelee – reference to Camp Hill (King James II encampment and Siege of Derry in the early 17th century)	Ch. 13+100 Ch. 13+700	Ch. 0 m	630488, 900843 630803, 900296 631074, 899817	Negative	Direct	High	Potential Medium	Potential Significant
S3-AAP05	Within area of recorded standing stone sites Undulating well drained soils	Ch. 15+200 Ch. 15+400	Ch. 0 m	631704, 899275 631912, 899224	Negative	Direct	High	Potential Medium	Potential Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
S3-AAP06	N14/N15 to A5 Link – northern and southern banks of the River Finn and adjacent lands Carricklee (NI) 16th century battle site (01/05/1588) between The Earl of Tyrone (Hugh O’Neill) (defeated) and Turlough Luineach O’Neill (victor) (AFM, Vol. 5, p.1867)	Ch. 0+200 Ch. 0+300	0 m	632549, 897083 632655, 896949	Negative	Direct	High	Potential Medium	Potential Significant
F-3-07	AAP	Ch. 5+600	0 m	627293, 907427	Negative	Direct	High	Potential Medium	Potential Significant
F-3-08 / M610, M611	AAP	Ch. 6+600	0 m	627706, 906497	Negative	Direct	High	Potential Medium	Potential Significant
F-3-10	AAP	Ch. 7+400	0 m	628073, 905744	Negative	Direct	High	Potential Medium	Potential Significant
F-3-11	AAP	Ch. 8+200	0 m	628357, 905068	Negative	Direct	High	Potential Medium	Potential Significant
F-3-12	AAP	Ch. 8+500	0 m	628488, 904742	Negative	Direct	High	Potential Medium	Potential Significant
L345-2	Possible enclosure(s)	Ch. 0+100 Access Road	0 m	629747, 901618	Negative	Direct	Low	Potential Medium	Potential Slight

Table 17-55: Section 3 Indirect Construction Stage Impacts on the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
40835028	Croaghan House	Ch. 16+800	66 m W	632331, 897998	Negative	Indirect	High	Medium	Very Significant
RPS 40907026 / NIAH 40834001	Cavanacor House (incl gate-lodge and entrances)	Ch. 1+300 (Side Rd)	178 m N	631322, 900236	Negative	Indirect	Medium	High	Significant
40827011 / M509, M482 & M483, M498	Manse	Ch. 0+200	53 m NE	623692, 910766	Negative	Indirect	Medium	Medium	Significant
40834006	Outbuilding	Ch. 14+600	17 m NE	631361, 899575	Negative	Indirect	High	Medium	Significant
40906245 / M565	Outbuilding	Ch. 3+500	31 m NE	625893, 908742	Negative	Indirect	Medium	Medium	Significant
40834014	Station Master's House	Ch. 0+200 Side Rd	4 m	630394, 900308	Negative	Indirect	High	Low	Significant
DG054-038--- / Nat Mon Ref. 453	Pluck Standing stone	Ch. 00 Access Rd	254 m SW	623308, 910274	Negative	Indirect	Low	High	Moderate
40834004	St Patrick's Bell Tower	Ch. 0+350	20 m E	631914, 899459	Negative	Indirect	Low	High	Moderate
RPS 40907020/ NIAH 40834003	St Patrick's Church	Ch. 0+350 Link	44 m W	631963, 899456	Negative	Indirect	Low	High	Moderate
40834002	Manse	Ch. 0+350 Link	39 m E	631818, 899517	Negative	Indirect	Medium	Medium	Moderate
HB10/08/007	Castletown House	Ch. 0+300	446 m NE	633011, 897227	Negative	Indirect	Low	High	Moderate
HB10/08/004C	Carricklee Gate Lodge	Ch. 0+300	196 m S	632659, 896791	Negative	Indirect	Low	High	Moderate
40834017	Goods Shed	Ch. 14+100	58 m S	630815, 900024	Negative	Indirect	High	Low	Moderate

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
40834011	Station Masters House/ Building Misc	Ch. 14+000	15 m W	630864, 900013	Negative	Indirect	High	Low	Moderate
40906262	House	Ch. 9+200	7 m SW	628672, 904128	Negative	Indirect	Medium	Medium	Moderate
DG070-048----	Standing stone (site of)	Ch. 15+100	12 m N ZoN within alignment footprint	631630, 899335	Negative	Indirect	High	Low	Moderate
DG070-082----	Souterrain	Ch. 0+200 Junction Link	12 m S ZoN not allocated	632263, 897206	Negative	Indirect	Medium	Medium	Moderate
DG054-032--- / NIAH 40827009	Church	Ch 00 Access Rd	350 m NE	624171, 911045	Negative	Indirect	Low	Medium	Slight
DG054-032001-	Graveyard	Ch 00 Access Rd	350 m NE	624171, 911045	Negative	Indirect	Low	Medium	Slight
DG054-040---	Standing stone	Ch. 1+500	169 m SW	624718, 910165	Negative	Indirect	Low	Medium	Slight
DG070-032----	Standing stone (site of)	Ch. 0+200 Access Rd	112 m NE	630611, 901048	Negative	Indirect	Low	Medium	Slight
DG070-033----	Standing stone (site of)	Ch. 0+200 Access Rd	66 m NE	630570, 900977	Negative	Indirect	Low	Medium	Slight
DG070-049----	Standing stone (site of)	Ch 15+100	76 m S	631595, 899154	Negative	Indirect	Low	Medium	Slight
DG071-005----	Standing stone (site of)	Ch. 16+300	108 m E	632525, 898541	Negative	Indirect	Low	Medium	Slight
L138-12	Pond	Ch. 10+400	23 m E	629445, 903129	Negative	Indirect	Low	Low	Slight
L338-4	Flax Mill	Ch. 1+567 (Side Rd)	37 m S	629759, 903076	Negative	Indirect	Low	Low	Slight
L338-5	Mill pond	Ch. 1+567 (Side Rd)	66 m SE	629799, 903082	Negative	Indirect	Low	Low	Slight
L349-2 / M689	Building	Ch. 13+100	112 m SE	630278, 900818	Negative	Indirect	Low	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
L349-3 / M704	Lime Kiln	Ch. 13+850	60 m W	630761, 900186	Negative	Direct	Medium	Low	Slight
40905456	Connaghan's Bridge	Ch. 00 Side Rd	146 m SW	623467, 910234	Negative	Indirect	Low	Medium	Slight
F-3-09 / M614	House	Ch. 6+900	67 m E	627941, 906201	Negative	Indirect	Low	Low	Slight
M484	Mill Pond	Ch. 0+000 Side Road	96 m E	623986, 910842	Negative	Indirect	Low	Low	Slight
M485	Flax Mill	Ch. 0+000 Side Road	83 m E	623973, 910824	Negative	Indirect	Low	Low	Slight
M524	Sluice	Ch. 0+000 Side Road	35 m S	625022, 910068	Negative	Indirect	Low	Low	Slight
M525	Well	Ch. 0+300 Side Road	63 m NE	625313, 910231	Negative	Indirect	Low	Low	Slight
M526	Well	Ch. 0+400 Side Road	51 m NE	625401, 910177	Negative	Indirect	Low	Low	Slight
M528	Well	Ch. 0+400 Side Road	49 m SE	625445, 910093	Negative	Indirect	Low	Low	Slight
M532	Flax Mill	Ch. 2+000	46 m SW	625151, 910015	Negative	Indirect	Low	Low	Slight
M570	Limekiln	Ch. 3+700	32 m NE	625950, 908646	Negative	Indirect	Low	Low	Slight
M582	Vernacular structure	Ch. 0.+100 Side Road (attenuation pond)	43 m NE	626693, 908449	Negative	Indirect	Low	Low	Slight
M587	Limekiln	Ch. 4+700	33 m NE	626876, 908198	Negative	Indirect	Low	Low	Slight
M615	Vernacular structure	Ch. 7+100	34 m	628035, 906048	Negative	Indirect	Low	Low	Slight
M617	Well	Ch. 7+150	29 m W	627886, 905996	Negative	Indirect	Low	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
M623	Well	Ch. 0+100	36 m NE	628185, 905805	Negative	Indirect	Low	Low	Slight
M624	Well	Ch. 0+700 Side Road (online)	15 m W	628248, 905796	Negative	Indirect	Low	Low	Slight
M642	Vernacular structure	Ch. 9+000	30 m SW	628594, 904292	Negative	Indirect	Low	Low	Slight
M649	Post Office	Ch. 0+000 (N14 online)	7 m SW	628636, 904163	Negative	Indirect	Low	Low	Slight
M673	Sluice	Ch. 10+400	11 m	629414, 903151	Negative	Indirect	Moderate	Low	Slight
M680	Vernacular structure	Ch. 12+200	31 m E	629859, 901433	Negative	Indirect	Low	Low	Slight
M702	Limekiln	Ch. 0+500 Side Road	65 m NE	630608, 900073	Negative	Indirect	Low	Low	Slight
M703	Well	Ch. 0+550 Side Road	21 m S	630673, 900103	Negative	Indirect	Low	Low	Slight
M718	Well	Ch. 15+100	84 m NE	631661, 899401	Negative	Indirect	Low	Low	Slight
M719	Well	Ch. 15+000	49 m NE	631581, 899392	Negative	Indirect	Low	Low	Slight
DG070-074001-	Hillfort	Ch 17+000	2.5 km W	629887, 897450	Negative	Indirect	Negligible	High	Not Significant
DG070-074002-	Passage tomb	Ch 17+000	2.5 km W	629887, 897450	Negative	Indirect	Negligible	High	Not Significant
HB10/08/004B	Carricklee Stables	Ch. 0+300	540 m SW	632413, 896481	Negative	Indirect	Negligible	High	Not Significant
M658	Well	Ch. 0+000 Side Road	10 m E	629758, 903133	Negative	Indirect	Low	Low	Not Significant
M662	Well	Ch.0+000 Side Road	17 m N	629756, 903148	Negative	Indirect	Low	Low	Not Significant
M688	Well	Ch. 12+950	19 m	630336, 900950	Negative	Indirect	Low	Low	Not Significant

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
M690	Well	Ch. 0+200 Side Road	87 m W	630374, 900694	Negative	Indirect	Low	Low	Not Significant
M702	Limekiln	Ch 0+550 Junction	37 m	630608, 900073	Negative	Indirect	Low	Low	Not Significant
M720	Well	Ch. 15+000	15 m	631482, 899296	Negative	Indirect	Low	Low	Not Significant
M736	Limekiln	Ch. 16+600	68 m W	632340, 898254	Negative	Indirect	Low	Low	Not Significant
M739	Well	Ch. 16+600	76 m W	632346, 898184	Negative	Indirect	Low	Low	Not Significant
DG054-032002-	Architectural fragment	Ch. 00 Access Rd	350 m NE	624171, 911045	Neutral	Indirect	Negligible	Medium	Imperceptible
M625	Spring	Ch 0+100 Access Rd	41 m	628099, 906046	Negative	Indirect	Negligible	Low	Imperceptible
M684	Vernacular structure	Ch. 12+800	130 m	630397, 901172	Negative	Indirect	Negligible	Low	Imperceptible
M685	Limekiln	Ch. 12+900	150 m	630471, 901146	Negative	Indirect	Negligible	Low	Imperceptible

17.3.3.4 Project-wide Construction Stage Impacts

All construction stage direct and indirect impacts on the Cultural Heritage resource for the Proposed Development are set out in Sections 17.3.3.1, 17.3.3.2 and 17.3.3.3. It is not considered that the project-wide effect of the identified construction stage impacts across Sections 1, 2 and 3 of the Proposed Development gives rise to any significant additional effect than those already identified for the Cultural Heritage resource.

17.3.4 Operational Stage Impacts

17.3.4.1 Section 1 of the Proposed Development

Tabulated in Table 17-56 are details relating to identified direct and indirect impacts on the Cultural Heritage resource at operational stage for Section 1 of the Proposed Development. A consideration of the magnitude of impact and the value/sensitivity of the receptor has facilitated a determination of the significance of effect per impact assessment criteria set out in Section 17.1.2.6. All identified operational direct and indirect impacts are considered permanent in duration (>60 years).

In summary, there are a total of two No. Direct, 35 No. Indirect operational stage impacts on the Cultural Heritage resource for the Section 1 of the Proposed Development. Total quantities of significance of effect for Section 1 are:

- 0 Profound Negative
- 0 Very Significant Negative
- 7 No. Significant Negative
- 9 No. Moderate Negative
- 15 No. Slight Negative
- 1 No. Not Significant
- 5 No. Imperceptible

There is a total of seven identified operational stage significant impacts (one direct and six indirect) on the cultural heritage resource for the Section 1 Study Area (see Table 17-56). Four of these significant impacts (two direct and two indirect) have relevance to recorded archaeological SMR/RMP sites. The site of a church 'Drumboe Abbey' at Drumboe Lower (RMP DG078-005---), it's possible associated holy well (SMR DG078-005001-) and its overall grouping value as a former ecclesiastical site (RMP DG078-005--- and SMR DG078-005001-) has been subject to archaeological investigations.

No associated or additional archaeological features were identified within the archaeologically tested areas to indicate the presence of a wider medieval ecclesiastical settlement site. The Proposed Development has direct impact on the ecclesiastical grouping value of the church site RMP DG078-005--- and holy well SMR DG078-005001-, traversing between the two areas. This permanent dissection of the two cultural heritage site areas and former archaeological contemporaneous grouping is considered a direct significant impact during operational stage. There are indirect significant operational impacts on the church site itself (and the holy well), by virtue of close proximity of the Proposed Development and the resulting effect on setting and intangible cultural appreciation relating to both sites. In addition, the existing groundwater feed to the holy well will be intercepted, with provision of an alternative groundwater source during operational stage.

Dunwiley Fort (DG078-003---) is a bivallate ringfort, of large proportions, sited on the summit of a hill within excellent pasture, possibly with at least 8th and 9th century AD usage (Lacey, 2020, 63). Public access to Dunwiley Fort is facilitated by the landowners via dedicated road signage and an access track adjacent to Finn Valley Nurseries. The Proposed Development traverses west and north of the site within open good quality pastureland that rises to the north. This south-facing well drained ground has been identified as an area of archaeological potential (S1-AAP04) and a raised sub-circular area (F-1-17) was noted during field survey adjacent to same. The close proximity distance of the Proposed Development (in cut) to the north and west is likely to be visible in part from the summit of the fort itself (see LVIA Section 2 VP04, note there are also mature tree belts on top of the fort summit that are currently obscuring views). This visual distraction is considered an indirect significant negative permanent operational impact on the setting of the prominently sited large fort.

There is a recorded vernacular long-house cottage (RPS/NIAH 40907834) located at Drumboe Upper, forming part of a modern farmstead complex. There is another farm complex (see Ref. S1-BH02 below) to the southeast with the Proposed Development (including junction to east/northeast and attenuation pond to east/southeast) traversing alongside same. The proximity distance and local topography in this area has considered this an indirect significant negative permanent operational impact on the overall character/visual attraction of the long-house structure within the farmyard complex.

There is a recorded outbuilding (NIAH Ref. 40907720) located at Cappry forming part of a modern farmstead complex. The Proposed Development is located to the immediate south, west and east (including a junction area) and also traverses a stone wall-lined botharín associated with the farm (F-1-04) which connects to another former vernacular farmstead further west per the 1st ed OS mapping. This is considered an indirect negative permanent significant impact during operational stage on the overall character/visual attraction of the structure within the farmyard complex.

In addition, a vernacular stone outbuilding S1-BH02 (also identified in the LiDAR assessment ref. L115-2) at Drumboe Upper, forming part of a modern farm complex is located immediately east/northeast of the Proposed Development. Given the proximity to same, this is considered an indirect permanent significant impact during operational stage on the overall character/visual attraction of the structure within the farmyard complex.

Moderate significance of effect concerning indirect impact at operational stage have also been noted at nine cultural heritage receptors located near the edge or outside of the Proposed Development boundary/temporary boundary line. These indirect moderate effects are noted in the context of the features comprising upstanding remains with negative permanent impact during operational stage on the overall character/visual/intangible cultural appreciation of same. The sites include Steeple Tower (RPS/NIAH 40906908) at Tircallen demesne where distant glimpse views are likely to be afforded from the site towards the Proposed Development at the west/southwest. Similarly, moderate indirect operational impact has been considered for the former workhouse/famine graveyard sites to the rear of St Joseph's Hospital in Stranorlar, where the proposed Mullandrait Link Road is c. 300 m to the east. Other sites include a ruined vernacular building (L123-6/M166/F-1-13) and associated walled avenue (F-1-12) located within the former Drumboe demesne, Logue's Bridge on the River Finn at Cappry/Ironworks, river access path on the north bank of the river Finn (F-1-06), a denuded stone wall (F-1-19) at the base of slope south of LiDAR anomaly L109-1 at Teevickmoy, a possible enclosure (L105-1) at Teevickmoy and a raised sub-circular area F-1-17 at Dunwiley, near Dunwiley Fort (RMP DG078-003---).

A direct slight operational significance of effect is noted at the former Drumboe demesne lands. It is noted that this area has experienced incremental character erosion and fragmentation over the last century with little surviving estate related built heritage features or designed landscape areas. Indirect operational impact on the former estate coach-house (RPS/NIAH 40838047) and a 20th century memorial monument to the 'Drumboe Martyrs' is considered slight for these cultural heritage structures.

There are a further twelve indirect slight operational impacts noted on upstanding cultural heritage sites within close proximity to the Proposed Development which retain some levels of site character and setting within the local environment (see Table 17-56). These include ringfort RMP DG069-024--- at Meenavoy and sites/features identified via archaeological LiDAR assessment and field survey. A total of five indirect imperceptible operational impacts were also noted throughout the Section 1 Study Area (see Table 17-56).

Table 17-56: Section 1 Operational Stage Impacts on the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
DG078-003---	Ringfort – Rath	Ch 5+200	104 m SE	614615, 896773	Negative	Indirect	Medium	High	Significant
DG078-005---	Church (site of)	Ch 3+400	12 m SE	613389, 895443	Negative	Indirect	High	Medium	Significant
DG078-005001-	Holy Well	Ch. 3+400	35 m NW	613340, 895557	Negative	Indirect	High	Medium	Significant
DG078-005--- & DG078-005001-	Grouping Value – ecclesiastical site	Ch. 3+400	0 m	613358, 895516	Negative	Direct	High	Medium	Significant
L115-2 / S1-BH02	Building	Ch. 4+400	35 m NW	613978, 896223	Negative	Indirect	High	Medium	Significant
RPS/NIAH 40907834	Vernacular long-house	Ch. 4+400	136 m NW	613895, 896285	Negative	Indirect	Medium	High	Significant
NIAH 40907720	Outbuilding	Ch. 1+900	30 m NW	612106, 894673	Negative	Indirect	High	Medium	Significant
L105-1	Enclosure Possible	Ch. 200 Link Rd	62 m NW	614954, 898345	Negative	Indirect	Medium	Potential Medium	Moderate
L110-4 / M72	Lime Kiln	Ch. 150 Side Rd	20 m SW	615637, 897141	Negative	Indirect	High	Low	Moderate
L123-6 / M166 / F-1-13	Building	Ch. 3+300	52 m S	613310, 895374	Negative	Indirect	High	Low	Moderate
RPS/NIAH 40907836	Workhouse/ Famine Graveyard	Ch. 3+400 N15 Link at Mullandrait	307 m W	616012, 895514	Negative	Indirect	Low	High	Moderate
RPS/NIAH 40906908	'Steeple Tower' Mullaghagarry	Ch. 1+900 N15 Link Rd (Stranorlar)	1.5 km NE	617457, 897935	Negative	Indirect	Low	High	Moderate

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
F-1-01	Pair of ruined limekilns	Ch. 00 (S terminus)	14 m	610111, 892699	Negative	Indirect	High	Low	Moderate
Logue's Bridge	Logue's Bridge	Ch. 2+400	61 m W/NW	612413, 895026	Negative	Indirect	High	Low	Moderate
F-1-06	River access path and retaining wall on N bank of river	Ch. 2+400	57 m W/NW	612426, 895039	Negative	Indirect	High	Low	Moderate
F-1-12	Walled avenue	Ch. 3+300	40 m SE	613334, 895383	Negative	Indirect	High	Low	Moderate
DG069-024---	Ringfort – unclassified	Ch 250 – northern terminus road junction	160 m NW	615698, 899516	Negative	Indirect	Low	Medium	Slight
L102-1	Barrow Possible	Ch. 572 Link Rd Tie-in at N13 N terminus	114 m NE	616120, 900387	Negative	Indirect	Low	Potential Medium	Slight
L105-3	Building	Ch. 200 Link Rd	75 m SE	614957, 898099	Negative	Indirect	Medium	Low	Slight
L106-3 / M46	Farmstead	Ch. 1+150 Link Rd	91 m NE	615757, 897990	Negative	Indirect	Medium	Low	Slight
L123-2 / S1-AP01	Enclosure Possible	Ch 00 Side Rd	88 m W	613515, 895915	Neutral	Indirect	Low	Potential Medium	Slight
L129-1	Enclosure possible	Ch. 350 Link Rd	46m W	611761, 894735	Negative	Indirect	Low	Potential Medium	Slight
L129-2	Building	Ch. 200 Link Rd	103 m W	611758, 894901	Negative	Indirect	Medium	Low	Slight
RPS/NIAH 40838001	Memorial Monument	Ch. 3+350	531 m SE	613636, 894999	Neutral	Indirect	Negligible	High	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
RPS/NIAH 40838047	Former Coach House	Ch. 3+300	668 m SE	613504, 894792	Neutral	Indirect	Negligible	High	Slight
NIAH 40907708	Corn and Sawmills	Ch. 2+600	135 m NW	612476, 895211	Negative	Indirect	Medium	Low	Slight
NIAH DG0047	Drumboe Demesne	Ch. 3+050 – Ch. 3+900	0 m	613666, 895276 (approx. centre-point)	Negative	Direct	Low	Low	Slight
M211	School house/ Dispensary	Ch. 0 Online Upgrade	0 m	612063, 894343	Negative	Indirect	Medium	Low	Slight
M303	Vernacular structure	Ch. 0 Online Upgrade	0 m	610264, 892747	Negative	Indirect	Medium	Low	Slight
F-1-05	Ruined lime kiln	Ch. 1+550	45 m N	612940, 894368	Negative	Indirect	Low	Low	Slight
F-1-21	Lime kiln	Ch. 00 Side Rd	145 m SW	616154, 895993	Negative	Indirect	Medium	Low	Slight
NIAH DG0144	Tircallen Demesne	Ch. 1+850 – Ch. 2+100 N15 Link Road (Stranorlar)	0 m	617099, 897743 (approx. centre-point)	Negative	Indirect	Negligible	Medium	Not Significant
DG077-033---	Souterrain	Ch. 271 – Link Rd junction area	171 m SE	611387, 893329	Neutral	Indirect	Negligible	Low	Imperceptible
DG078-004---	Ringfort - cashel	Ch. 150 Junction area with N13	166 m SE	615539, 896874	Neutral	Indirect	Negligible	Low	Imperceptible
DG078-018---	Ringfort - unclassified	Ch 00 Link Rd. junction area with N15	135 m W	616053, 895068	Neutral	Indirect	Negligible	Low	Imperceptible

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
L101-2	Lime Kiln	Ch. 500 Link Rd Tie-in at N13 N terminus	76 m W	615930, 900238	Neutral	Indirect	Negligible	Low	Imperceptible
L141-2	Embankment	Ch. 00 Online tie-23 m SE in S terminus		610302, 892767	Negative	Indirect	Low	Negligible	Imperceptible

17.3.4.2 Section 2 of the Proposed Development

Tabulated in Table 17-57 are details relating to identified direct and indirect impacts on the Cultural Heritage resource at operational stage for Section 2 of the Proposed Development. A consideration of the magnitude of impact and the value/sensitivity of the receptor has facilitated a determination of the significance of effect per impact assessment criteria set out in Section 17.1.2.6. All identified operational direct and indirect impacts are considered permanent in duration (>60 years).

In summary, there are a total of one direct and four Indirect operational stage impacts on the Cultural Heritage resource for the Section 2 Proposed Development. Total quantities of significance of effect for Section 2 are:

- 0 Profound Negative
- 0 Very Significant Negative
- 0 No. Significant Negative
- 3 No. Moderate Negative
- 2 No. Slight Negative
- 0 Not Significant
- 0 Imperceptible

A direct negative moderate permanent impact is noted at the location of enclosure SMR site DG053-059--- and its respective setting within the local environment at operational stage. This site will be directly impacted by the Proposed Development during construction stage, resulting in the physical loss of part of the site. The site is in poor condition with low surface expression, having been initially identified by LiDAR and aerial photography. Further, the site was archaeologically tested and was found not to be of archaeological significance. As such it has retained little amenity value, however the landscape setting of the site on lower terrain overlooking the River Swilly will be significantly and permanently altered. The remaining portion of the site that is likely to survive in situ will be at a new roadside location and is unlikely to retain any amenity value or heritage led opportunities at operational stage.

Indirect negative moderate permanent impact is noted at Dromore House (F-2-05) and its respective setting within the local environment. Although the existing N13 dual carriageway backs onto the rear of the property, its front elevation and current vista is indirectly affected by the operational stage of the Proposed Development which is located to the north of same.

Indirect negative moderate permanent impact is noted at the road over railway bridge at Dromore (NIAH 40905394) and its respective setting over the former railway line. The Proposed Development traverses the former railway line with a resulting loss of connectivity and visual appreciation of same relative to the bridge structure. There is direct impact on the former railway line (see Section 17.3.3.2) but also indirect impact on the overall former railway line (S2-BH04) at this location which is considered to be a slight operational impact. The partial railway line section loss occupied by the Proposed Development will result in visual distraction of the character and setting of the former railway line at this location.

A vernacular house at Listellian (M451) is located adjacent to the Proposed Development and a slight indirect operational impact has been identified for this extant structure and immediate grounds in the context of cultural visual appreciation of same within a greenfield area.

Table 17-57: Section 2 Operational Stage Impacts on the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
DG053-059---	Possible Enclosure	Ch. 0+950 (Junction Arm)	0 m	620852, 911349	Negative	Direct	High	Low	Moderate
F-2-05	Dromore House	Ch. 0+550	25 m	620009, 910748	Negative	Indirect	High	Low	Moderate
40905394	Railway Bridge	Ch. 2+100	85 m W	619984, 910480	Negative	Indirect	Medium	Medium	Moderate
S2-BH04	Disused railway line	Ch. 2+100	0 m	620134, 910487	Negative	Indirect	Medium	Low	Slight
M451	Vernacular structure	Ch. 1000 Link Road	46 m SW	619727, 908555	Negative	Indirect	Low	Low	Slight

17.3.4.3 Section 3 of the Proposed Development

Tabulated in Table 17-58 are details relating to identified direct and indirect impacts on the Cultural Heritage resource at operational stage for Section 3 of the Proposed Development. A consideration of the magnitude of impact and the value/sensitivity of the receptor has facilitated a determination of the significance of effect per impact assessment criteria set out in Section 17.1.2.6. All identified operational direct and indirect impacts are considered permanent in duration (>60 years).

In summary, there are a total of 0 No. Direct and 41 No. Indirect operational stage impacts on the Cultural Heritage resource for the Section 3 of the Proposed Development. Total quantities of significance of effect for Section 3 are:

- 0 Profound Negative
- 1 No. Very Significant Negative
- 6 No. Significant Negative
- 10 No. Moderate Negative
- 20 No. Slight Negative
- 3 No. Not Significant
- 1 No. Imperceptible

There is a total of one identified operational stage Very Significant and six Significant impacts on the cultural heritage resource for the Section 3 Study Area (see Table 17-58). Croaghan House (NIAH 40835028) is indirectly negatively and permanently affected by the Proposed Development. The proposed alignment extends northwards through the central portion of the parkland, crossing the access avenue, and located northeast/east/southeast of the house and its immediate setting (see Chapter 18: Landscape and Visual, Photomontage VP 14). The indirect operational stage impact on the house and its overall character/visual attraction setting within the parkland is considered a Very Significant impact.

Cavanacor House (RPS 40907026 / NIAH 40834001) is indirectly negatively and permanently affected by the Proposed Development (see Chapter 18: Landscape and Visual, Photomontage VP 8 and VP 16) . The proposed main alignment traverses along the western edge of the former demesne lands, crossing the River Deelee, whilst a proposed new side road arrangement accessing the village of Ballindrait extends south of the existing local road network along which the entrances and former (later) gate-lodge to Cavanacor House are located. The indirect impact on the house and its attendant grounds (including entrances and gate-lodge) during operational stage comprise marginal visual distraction on its character and setting, particularly on views from the front elevation (above ground floor level) to the low-lying lands to the south at the River Deelee and is considered a significant impact.

St Patrick's Church and Bell Tower at Murlough (RPS 40907020/NIAH 40834003/40834004) is indirectly negatively and permanently affected by the Proposed Development. A proposed access alignment (active travel) traverses along a field boundary at the west, before extending (in cut) upslope adjacent the rear backdrop setting of the church and tower site. The church graveyard occupies the sloping ground to the rear of the property and there is a tree belt to the southwest along the broad ridge summit that will serve to partially screen the access alignment in that direction. This is considered a significant impact on lands immediately adjacent to the site and thereby within the overall landscape setting of same. It is also noted that the presbyterian manse also originally associated with the site (NIAH 40834002), to the west of the access alignment, will also experience indirect negative permanent moderate significance of effect on its landscape setting.

The former presbyterian manse at Glebe, Manorcunningham (NIAH 40827011/ M509/M482/M483 and M498) and associated outbuildings are located adjacent to the Proposed Development, at a slightly elevated position. The overall character/visual attraction setting of same is negatively indirectly and permanently affected by the Proposed Development and is considered a significant impact.

There are two outbuildings (NIAH 40834006 and NIAH 40906245/M565) at Murlough and Mondooney Lower townlands respectively. The Proposed Development traverses immediately adjacent to these structures/building complexes with negative indirect permanent impact on the overall character/visual attraction setting of same considered a significant impact.

Moderate significance of effect concerning indirect impact at operational stage have also been noted at ten cultural heritage receptors located near the edge or outside of the Proposed Development boundary/temporary boundary line. These indirect moderate effects are noted primarily in the context of the features comprising upstanding remains with negative permanent impact during operational stage on the overall character/visual/intangible cultural appreciation of same. The sites include: Pluck standing stone (RMP DG054-038--- National Monument Ref. 453), and nearby a presbyterian manse (NIAH 40834002) nearby St Patrick's church in Murlough (see above), the former Ballindrait windmill (NIAH 40834005), a goods shed (NIAH 40834017) and Station Master's House/Miscellaneous building (NIAH 40834011) associated with the former S&LR railway and a derelict vernacular house (NIAH 40906262).

In addition, at the N14/N15 to A5 Link area, south of the River Finn, there are two cultural heritage receptors with noted indirect moderate operational impact at Castletown House (HB/10/08/007) and Carricklee Gate Lodge (HB/10/08/004C) (see Chapter 18: Landscape and Visual, Photomontage VP 13 and VP 15). The 'site of' standing stone at Murlough (DG070-048---) is located within the Proposed Development boundary line and outside the alignment footprint. The souterrain and enclosure site at Curraghane (SMR DG070-082---) is immediately adjacent to (outside) the Proposed Development boundary line. Operational stage impact has been defined as indirect moderate in this instance at Curraghane, with a potential very slight drying out of soils noted (existing groundwater levels are low and unlikely to be affected by the cutting) as well as a need to ensure that no ground works occur at these locations as part of any future operational road maintenance regimes.

There is direct slight impact on the former railway lines (L345-3 and L310-1) within the Section 3 Study Area (see Table 17-58) for construction stage, but also indirect impact on the overall former railway lines at these two locations is considered to be slight operational impacts. The partial railway line section losses occupied by the Proposed Development will result in visual distraction of the character and setting of the former railway line at these locations.

There are a further 20 No. indirect slight operational impacts noted on upstanding cultural heritage sites within close proximity to the Proposed Development which retain some levels of site character and setting within the local environment (see Table 17-58). These include the church and graveyard at Raymoghly (DG054-032---/NIAH 40827009), a standing stone at Carrickballydooney (DG054-040---) and sites/features identified via archaeological LiDAR assessment and field survey. A total of three Not Significant operational impacts have been identified at Croaghan hill hillfort and passage tomb site RMP DG070-074001- and DG070-074002 and Carricklee Stables HB/10/08/04B (noted within the N14/N15 to A5 Link Study Area). As for the measured construction stage significance of effect on Croaghan hillfort and passage tomb, although sited at an elevated position on the hilltop, with Kilmonaster passage tomb cemetery to the west, the north-eastern ridge shoulder of the hill as well as overall distance to the N14/N15 to A5 Link and the Proposed Development serve to reduce any potential indirect impact on amenity value and/or setting during operational stage to a negligible level of magnitude impact, resulting in a Not Significant significance of effect.

There is one imperceptible indirect operational impact on a miscellaneous corrugated building NIAH 40906216 at Ballyholey Far.

Table 17-58: Section 3 Operational Stage Impacts on the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/ Sensitivity	Significance of Effect
40835028	Croaghan House	Ch. 16+800	66 m W	632331, 897998	Negative	Indirect	High	Medium	Very Significant
RPS 40907026 / NIAH 40834001	Cavanacor House (incl gate-lodge and entrances)	Ch. 1+300 (Side Rd)	178 m N	631322, 900236	Negative	Indirect	Medium	High	Significant
40827011 / M509, M482 & M483, M498	Manse	Ch. 0+200	53 m NE	623692, 910766	Negative	Indirect	Medium	Medium	Significant
40834006	Outbuilding	Ch. 14+600	17 m NE	631361, 899575	Negative	Indirect	High	Medium	Significant
40906245 / M565	Outbuilding	Ch. 3+500	31 m NE	625893, 908742	Negative	Indirect	Medium	Medium	Significant
RPS 40907020/ NIAH 40834003	St Patrick's Church	Ch. 0+350 Link	44 m W	631963, 899456	Negative	Indirect	Medium	High	Significant
40834004	St Patrick's Bell Tower	Ch. 0+350	20 m E	631914, 899459	Negative	Indirect	Medium	High	Significant
40834002	Manse	Ch. 0+350 Link	39 m E	631818, 899517	Negative	Indirect	Medium	Medium	Moderate
DG054-038---	Pluck Standing stone	Ch. 00 Access Rd	254 m SW	623308, 910274	Negative	Indirect	Low	High	Moderate
DG070-048----	Standing stone (site of)	Ch. 15+100	12 m N ZoN within alignment footprint	631630, 899335	Negative	Indirect	High	Low	Moderate
DG070-082----	Souterrain	Ch. 0+200 Junction Link	12 m S ZoN not allocated	632263, 897206	Negative	Indirect	Medium	Medium	Moderate

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
HB10/08/007	Castletown House	Ch. 0+300	446 m NE	633011, 897227	Negative	Indirect	Low	High	Moderate
HB10/08/004C	Carricklee Gate Lodge	Ch. 0+300	196 m S	632659, 896791	Negative	Indirect	Low	High	Moderate
40834005	Ballindrait Windmill	Ch. 15+100	176 m S	631546, 899064	Negative	Indirect	Medium	Medium	Moderate
40834017	Goods Shed	Ch. 14+100	58 m S	630815, 900024	Negative	Indirect	High	Low	Moderate
40834011	Station Masters House/ Building Misc	Ch. 14+000	15 m W	630864, 900013	Negative	Indirect	High	Low	Moderate
40906262	House	Ch. 9+200	7 m SW	628672, 904128	Negative	Indirect	Medium	Medium	Moderate
DG054-032--- / NIAH 40827009	Church	Ch 00 Access Rd	350 m NE	624171, 911045	Negative	Indirect	Low	Medium	Slight
40906216	Building Misc	Ch. 6+000	140 m NW	627148, 907006	Negative	Indirect	Negligible	Medium	Imperceptible
DG054-032001-	Graveyard	Ch 00 Access Rd	350 m NE	624171, 911045	Negative	Indirect	Low	Medium	Slight
DG054-040---	Standing stone	Ch. 1+500	169 m SW	624718, 910165	Negative	Indirect	Low	Medium	Slight
L310-1	Former railway line	Ch. 2+200	0 m	625422, 909973	Negative	Indirect	Medium	Low	Slight
L338-4	Flax Mill	Ch. 1+567 (Side Rd)	37 m S	629759, 903076	Negative	Indirect	Low	Low	Slight
L338-5	Mill pond	Ch. 1+567 (Side Rd)	66 m SE	629799, 903082	Negative	Indirect	Low	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
L345-3	Former railway line	Ch. 14+100 and Ch. 0+300 (Side Rd)	0 m	630581, 900102	Negative	Indirect	Medium	Low	Slight
L349-2 / M689	Building	Ch. 13+100	112 m SE	630278, 900818	Negative	Indirect	Low	Low	Slight
F-3-02	Carrickbally-dooley farmstead and laneway	Ch. 1+500	0 m	624856, 910326	Negative	Indirect	Medium	Low	Slight
F-3-09 / M614	House	Ch. 6+900	67 m E	627941, 906201	Negative	Indirect	Low	Low	Slight
M532	Flax Mill	Ch. 2+000	46 m SW	625151, 910015	Negative	Indirect	Low	Low	Slight
M582	Vernacular structure	Ch. 0.+100 Side Road (attenuation pond)	43 m NE	626693, 908449	Negative	Indirect	Low	Low	Slight
M593	Vernacular structure	Ch. 4+700	83 m SW	626716, 908099	Negative	Indirect	Low	Low	Slight
M596	Vernacular structure	Ch. 5+100	126 m SW	626931, 907832	Negative	Indirect	Low	Low	Slight
M615	Vernacular structure	Ch. 7+100	80 m NE	628035, 906048	Negative	Indirect	Low	Low	Slight
M616	Flax Mill	Ch. 7+200	65 m E	628049, 905988	Negative	Indirect	Low	Low	Slight
M647	Vernacular structure	Ch. 0+300 Side Road	94 m W	628192, 905096	Negative	Indirect	Low	Low	Slight
M648	Saw / Flax Mill	Ch. 9+200	40 m SW	628660, 904094	Negative	Indirect	Low	Low	Slight

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Quality of Effect	Impact Type	Magnitude of Impact	Value/Sensitivity	Significance of Effect
M666	Flax Mill	Ch. 0+000 Side Road	39 m S	629752, 903077	Negative	Indirect	Low	Low	Slight
M670	Mill Race	Ch. 1+400 Side Road	50 m S	629614, 903084	Negative	Indirect	Low	Low	Slight
DG070-074001-	Hillfort	Ch 17+000	2.5 km W	629887, 897450	Negative	Indirect	Negligible	High	Not Significant
DG070-074002-	Passage tomb	Ch 17+000	2.5 km W	629887, 897450	Negative	Indirect	Negligible	High	Not Significant
HB10/08/004B	Carricklee Stables	Ch. 0+300	540 m SW	632413, 896481	Negative	Indirect	Negligible	High	Not Significant

17.3.4.4 Project-wide Operational Stage Impacts

All operational stage direct and indirect impacts on the Cultural Heritage resource for the Proposed Development are set out in Sections 17.3.4.1, 17.3.4.2 and 17.3.4.3. It is not considered that the project-wide effect of the identified operational stage impacts across Sections 1, 2 and 3 of the Proposed Development gives rise to any significant effects over and above those already identified for the Cultural Heritage resource.

17.4 Mitigation Measures

Preservation by avoidance is the principle mitigatory measure applicable to the Cultural Heritage resource. Where avoidance in whole or in part via design refinement has been exhausted, recourse to *preservation in situ* or *preservation by record* shall be the primary applicable mitigation measures, subject to statutory agreement. For instances where the cultural heritage receptor cannot be avoided but can be incorporated into the Proposed Development footprint, without additional ground reduction, drainage measures, or amenity impact such that *preservation in situ* can avoid or reduce the level of impact, this measure shall be adopted, subject to statutory agreement. In principle, given the continued sub-surface site preservation (although altered site context), this shall provide a lesser residual significance of effect on same.

For instances where the cultural heritage receptor cannot be avoided or incorporated into the Proposed Development footprint, *preservation by record* shall be adopted (subject to statutory agreement). This shall involve a full and detailed licenced archaeological excavation (archaeological sites, historical features, vernacular and industrial heritage structures) and built heritage survey records of extant structures (written, drawn and photographic). In principle, given the creation of a full and detailed archaeological and built heritage record, the results of which shall be publicly accessible and disseminated, this shall provide a lesser residual significance of effect on same.

For instances where the cultural heritage receptor is located outside the Proposed Development footprint but within any lands made available for temporary works areas during construction, designation of exclusion zones appropriate to the extent and sensitivity of the receptor will be applied.

Recorded and known Cultural Heritage Receptors

Direct impacts on known and recorded Cultural Heritage receptors shall be mitigated by measures relevant to each heritage receptor, including its respective Zone of Notification (ZoN) and any other value-related or sensitive factors (character, setting, amenity etc.). Relevant identified mitigation measures are set out in Sections 17.4.1 and 17.4.2 which includes targeted test excavations and geophysical survey (where feasible) of known and recorded archaeological and cultural heritage sites within the Proposed Development boundary in advance of construction.

Unrecorded and Unknown Cultural Heritage Receptors

Mitigatory measures for the presently unknown sub-surface archaeological resource (such as AAPs, river crossings and identified LiDAR anomalies and other potential archaeological features) and areas of undisturbed ground shall involve a programme of archaeological geophysical survey (where geological/ground conditions are feasible) and follow-up archaeological test-trenching and targeted metal detection where required, within the Proposed Development. The objective is to determine the location, nature and extent of any previously unknown archaeological sites. Any testing in wetland or boggy areas shall be undertaken in accordance with the TII (2005c) *Guidelines for the Testing and Mitigation of the Archaeological Wetland Heritage for National Road Schemes*.

This programme shall be carried out by suitably qualified archaeological personnel, under Ministerial Direction (currently under Section 14A of the National Monuments Act 1930 (as amended) or per other licencing requirements as may subsequently be commenced under the HAHMP Act 2023). This programme shall also be undertaken in close consultation with both NMS Department of Housing, Local Government and Heritage (DHLG&H) and the TII Project Archaeologist as part of advance construction stage works. This shall facilitate the identification or otherwise of any sub-surface material remains and enable a strategic evaluation and resolution of same via *preservation in situ* (if appropriate) or *preservation by record*, subject to statutory agreement. Provision will also be made at construction stage for any on-site archaeological monitoring and inspection at lands not conducive to archaeological test-trenching (due to environmental,

safety or access constraints). Following completion of on-site archaeological works during construction stage and in line with the conditions of Ministerial Direction to excavate archaeological sites and features, a full post-excavation reporting phase shall be undertaken to include for the conservation of artefacts and the publication of excavation results.

Sections of (undesigned) townland boundaries will be directly affected throughout the Proposed Development boundary. These crossing points shall be recorded in their current state in advance of construction and where original upstanding banked remains exist (earthen and/or stone), a machine-dug test trench will be excavated and archaeologically monitored, with a drawn and photographic record of the exposed cross-section recorded together with a written record. Watercourses forming townland boundaries will not be test-excavated but will be subject to a wade and metal detection survey, together with a written and photographic record.

Riverine and Underwater Environments

It is noted that any proposed river crossings at Sections 1, 2 and 3 Study Areas shall comprise single span bridging structures with no impact on the riverbeds. Mitigatory measures for any potential (presently unknown) underwater archaeological material remains at locations of water-crossings (riverbanks and floodplains, including earlier paleochannels) that archaeological dive/wade surveys will be undertaken at wet riverbank sections/river margins and metal detection surveys shall also be undertaken at these riverine environments.

In addition (and where feasible) archaeological geophysical survey and/or archaeological testing/test pits investigations will be carried out as part of advance construction works and in line with TII Guidelines for Testing and Mitigation of the Wetland Archaeological Heritage for National Road Schemes (2005).

Provision shall be made for a systematic geoarchaeological review of available project geological investigation (GI) data and/or geoarchaeological core sampling, if deemed suitable at select locations (e.g. former extensive paleochannels/floodplains, or reclaimed lands). The strategic siting of geoarchaeological core sampling shall be identified and determined in advance by a suitably qualified geoarchaeologist (subject to statutory agreement). Such sampling and review of GI data shall assist with informing the test investigation strategy within riverine environments, by establishing the nature of previous environments of the area and any potential associated anthropogenic levels. This is relevant for the wider floodplains of the River Swilly (Section 2 of the Proposed Development) and the Rivers Deelee and Finn (Section 3 of the Proposed Development).

As for unknown terrestrial archaeological remains, dive/wade and metal detection surveys, as well as geophysical, testing and sampling investigations, shall be carried out under licence and per Ministerial Direction in consultation with NMS Department of Housing, Local Government and Heritage (DHLG&H) and the TII Project Archaeologist as part of advance construction stage works.

For any instances of archaeological investigations that are not feasible to complete at advance works stage (due to ecological, environmental, other, and/or H&S concerns/exclusion areas) such mitigatory measures will be undertaken at construction stage, where feasible. For instances where this is not feasible, an archaeological site monitoring programme shall be undertaken during construction stage, in line with any construction-related H&S requirements.

Design and Landscaping Interventions

Indirect impact on individual extant Cultural Heritage receptors and/or extant site groupings (often contemporaneous and/or geographically clustered) can take the form of interruption to landscape setting and/or visual sightlines that are inherent to the original function, form, character or extent of the site(s) or a reduction in the overall amenity value of the site.

In general terms, where indirect impact on Cultural Heritage receptors cannot be avoided, this can be *reduced* by adoption of inter-disciplinary mitigatory approaches for operational stage impacts. The appropriateness of the approach shall depend on the type of heritage receptor and its inherent landscape sensitivities. This can include maximising usage of the local topography to best absorb the designed alignment by making use of existing natural screening by trees and hedgerows use of sympathetic landscaping and/or planting/screening to areas such as raised embankments installation of noise barriers

and/or artificial lighting solutions and provision of improved accessibility options to areas of cultural heritage amenity value (see Chapter 18: Landscape and Visual). Such intervention measures shall provide a lesser residual significance of effect on same.

17.4.1 Construction Stage Mitigation Measures

17.4.1.1 Section 1 of the Proposed Development

Detailed in Table 17-59 are mitigation measures for construction stage impacts on the Cultural Heritage Resource for Section 1.

Table 17-59: Section 1 Construction Stage Mitigation Measures for the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Recorded archaeological RMP/SMR sites							
DG069-023---	Bullaun Stone	Ch 50 – northern terminus local road junction	76 m SW	615738, 899723	Indirect	Not Significant	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required as part of Lands Made Available (LMA) for accommodation/temporary works
DG069-024---	Ringfort – unclassified	Ch 250 – northern terminus road junction	160 m NW	615698, 899516	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works
DG069-028---	Ringfort – unclassified	Ch. 7+150	145 m SE	615779, 898309	Indirect	Not Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage.
DG078-003---	Ringfort – Rath	Ch 5+200	104 m SE	614615, 896773	Indirect	Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage. Visitor access provision to this site is being provided immediately adjacent, as part of operational stage mitigation which will be non-ground intrusive in nature, using non-ground reduction reinforced surfacing materials. Prior to installation of access provisions at construction stage (with licenced archaeological oversight), a programme of geophysical survey (and testing if required) will be carried out at advance stage works in order to adequately inform the access

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							arrangement provisions, subject to statutory consent.
DG078-005---	Church (site of)	Ch 3+400	12 m SE	613389, 895443	Indirect	Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, together with regular archaeological sites/inspection/monitoring to ensure integrity of designed soil stability measures and ground vibration monitors, if required.
DG078-005001-	Holy Well	Ch. 3+400	35 m NW	613340, 895557	Indirect	Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, together with regular archaeological site inspection/monitoring to ensure integrity of designed soil stability and water source measures, and ground vibration monitors, if required.
Recorded architectural heritage (RPS/NIAH) sites							
RPS/NIAH 40907834	Vernacular long-house	Ch. 4+400	136 m NW	613895, 896285	Indirect	Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works
NIAH 40907720	Outbuilding	Ch. 1+900	30 m NW	612106, 894673	Indirect	Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works. Baseline inspection records together with regular built heritage site monitoring to ensure structural

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							integrity, with use of ground vibration monitors, if required.
NIAH DG0047	Drumboe Demesne	Ch. 3+050 – Ch. 3+900	0 m	613666, 895276 (approx. centre-point)	Direct	Slight	Written and photographic demesne setting record prior to construction
NIAH DG0144	Tircallen Demesne	Ch. 1+850 – Ch. 2+100 N15 Link Road (Stranorlar)	0 m	617099, 897743 (approx. centre-point)	Direct	Not Significant	Written and photographic demesne setting record prior to construction
Identified cultural heritage LiDAR assessment and field survey sites							
L102-1	Barrow Possible	Ch. 572 Link Rd Tie-in at N13 N terminus	114 m NE	616120, 900387	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works
L105-1	Enclosure Possible	Ch. 200 Link Rd	62 m NW	614954, 898345	Indirect	Moderate	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
L105-2	Pit	Ch. 250 Link Rd	112 m N/NW	614979, 898402	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works
L105-3	Building	Ch. 200 Link Rd	75 m SE	614957, 898099	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							construction stage, if required as part of LMA for accommodation/temporary works
L106-2 / M40	Lime Kiln	Ch. 6+700	0 m	615349, 898078	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
L106-3 / M46	Farmstead	Ch. 1+150 Link Rd	91 m NE	615757, 897990	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
L110-1	Barrow Possible	Ch. 6+450	0 m	615382, 897813	Direct	Potential Significant	Archaeological geophysical survey followed by archaeological testing in advance of construction
L110-3 / M68	Lime Kiln	Ch. 1+200	0 m SW	615720, 897318	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
L110-4 / M72	Lime Kiln	Access Rd	0 m	615637, 897141	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
L110-5 / M71	Building	Ch. 1+350	0 m	615818, 897226	Direct	Moderate	Archaeological testing in advance of construction
L115-2 / S1-BH02	Building	Ch. 4+400	35 m NW	613978, 896223	Indirect	Significant	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							of LMA for accommodation/temporary works
L118-3	Quarry pit possible	Ch. 2+850	0 m	616385, 896077	Direct	Not Significant	None required
L121-1 / M189	Railway	Ch. 00 Link Rd tie-in	0 m	612015, 895069	Direct	Slight	Full measured written, drawn and photographic record prior to construction
L122-5 / F-1-07	Mill race	Ch. 2+450	0 m	612507, 895065	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface (infilled) features prior to construction
L123-6 / M166 / F-1-13	Building	Ch. 3+300	52 m S	613310, 895374	Indirect	Moderate	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
L129-1	Enclosure possible	Ch. 350 Link Rd	46m W	611761, 894735	Indirect	Not Significant	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
L129-2	Building	Ch. 200 Link Rd	103 m W	611758, 894901	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
L129-5	Barrow possible	Ch. 150 Link Rd	2 m E	611913, 894941	Direct	Potential Significant	Archaeological geophysical survey followed by archaeological testing in advance of construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
L138-11	Building	Ch. 271 Link Rd	0 m	611168, 893390	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
L141-2	Embankment	Ch. 00 Online tie- in S terminus	23 m SE	610302, 892767	Indirect	Imperceptible	None
F-1-01	Pair of ruined limekilns	Ch. 00 (S terminus)	14 m S	610111, 892699	Indirect	Moderate	Application of exclusion zone during construction stage works
F-1-02	Roadway	Ch. 1+500	0 m	611870, 894356	Direct	Slight	Written and photographic structure setting record together with topographic survey record prior to construction
F-1-03	Roadway	Ch. 1+450	0 m	611818, 894340	Direct	Slight	Written and photographic structure setting record together with topographic survey record prior to construction
DLR(S&GB) Railway line	Railway line	Ch. 2+300	0 m	612409, 894923	Direct	Slight	Full measured written, drawn and photographic record prior to construction, including a mechanically excavated cross-sectional test trench
F-1-04	Roadway	Ch. 350	0 m	611905, 894734	Direct	Slight	Written and photographic structure setting record together with topographic survey record prior to construction
F-1-05	Ruined lime kiln	Ch. 1+550	45 m N	612940, 894368	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Logue's Bridge	Logue's Bridge	Ch. 2+400	61 m W/NW	612413, 895026	Indirect	Moderate	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
F-1-06	River access path and retaining wall on N bank of river	Ch. 2+400	57 m W/NW	612426, 895039	Direct	Moderate	Full measured written, drawn and photographic record prior to construction
F-1-08	Bridge	Ch. 3+025	0 m	613025, 895320	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
F-1-10	Infilled stream (flagstone cover)	Ch. 3+100	0 m	613050, 895441	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage
F-1-11	Stone field wall	Ch. 3+150	0 m	613137, 895414	Direct	Slight	Full measured written, drawn and photographic record prior to construction Written and photographic structure setting record prior to construction Salvage of stone during removal for local re-building use
F-1-12	Walled avenue	Ch. 3+300	40 m SE	613334, 895383	Indirect	Moderate	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
F-1-14	Stone field wall	Ch. 3+375	0 m	613332, 895508	Direct	Slight	Full measured written, drawn and photographic record prior to construction Written and photographic structure setting record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							Salvage of stone during removal for local re-building using the art of local dry stone wall construction techniques
F-1-15	Cross-inscribed pillar	Ch. 3+350	0 m	613331, 895483	Direct	Moderate	Written and photographic structure measured survey and setting record prior to construction Careful removal and reinstatement at adjacent laneway area to south, subject to landowner agreement, prior to construction
F-1-16	Stone field wall	Ch. 3+525	0 m	613476, 895551	Direct	Slight	Full measured written, drawn and photographic record prior to construction Written and photographic structure setting record prior to construction Salvage of stone during removal for local re-building use
F-1-17	Raised sub-circular area	Ch. 5+400	90 m NW	614570, 897121	Indirect	Moderate	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
F-1-19	Denuded stone wall	Ch. 250 Link Rd	62 m NW	614858, 897683	Indirect	Moderate	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
F-1-22	E-W bank and ditch	Ch. 2+425	0 m	616517, 896477	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage

Areas of Archaeological Potential

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
S1-AAP01	Burn Daurnett River lowlands and area SW of Ballybofey, incl. Cappry & Dooish at lowlands	Dooish (Ch. 0+350-0+850) & Meencargagh/ Dooish Link Rd	0 m	611007, 893510 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing in advance of construction
S1-AAP02	SW & NE banks of River Finn incl river crossing and Drumboe Lower, Ironworks, Magherapaste	Ch. 2+600-4+000	0 m	613065, 895384 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing in advance of construction
S1-AAP04	Southern slopes of ridge, Dunwiley	Ch. 5+200- 5+7000	0 m	614744, 897117 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing in advance of construction
S1-AAP05	Elevated field area adjacent stream/townland boundary of Treanamullin/Mullandrait Wet, low-lying areas, incl north of Cooladawson Road	Ch. 3+400-3+550 Ch. 2+800-3+150 Ch. 2+000-2+800	0 m	616466, 895508 616463, 895925 616525, 896542 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing in advance of construction
S1-AAP06	Wet area - south banks of Cloghroe River. N of Stranorlar & River Finn, rising ground at Lough Alaán to Dunwiley.	Ch. 8+000 - 8+550	0 m	616050, 892927 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing in advance of construction
S1-AAP07	Immediately adjacent the Burn Daurnett river network	Ch. 00 (roundabout) Ch. 400 Link Rd	0 m	611031, 893231 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing in advance of construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Underwater/Riverine Archaeology							
S1-R01	River Finn	Ch. 2+350-2+400	0 m	612483, 895000	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.
S1-R02	Backlees Stream	Ch. 4+100- 4+1500	m	613886, 895997	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.
S1-R03	Cloghroe River	Ch. 0+200 – 0+300 (N arm Roundabout)	0 m	616018, 899981	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.
Historic OS Mapping Sites							
M34	Vernacular structure	Ch. 375 Side Rd	0 m	615108, 898317	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M35	Formal garden	Ch. 600 Side Rd	0m	615369, 898420	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M36	Limekiln	Ch. 100 Side Rd	5 m NE Side Rd	614914, 898165	Indirect	Slight	Application of exclusion zone during construction stage works

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M37	Vernacular structure	Ch. 750 Side Rd (underbridge)	0 m	615476, 898208	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M52	Well	Ch. 6+500	22 m NW	615239, 897927	Indirect	Slight	Application of exclusion zone during construction stage works
M53	Vernacular structure	Ch. 6+550	48 m NW	615220, 897972	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M66	Limekiln	Ch. 189 Side Rd	21 m E	614928, 897137	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M69	Well	Ch. 1+300 Link Rd	0 m	615802, 897262	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M83	Limekiln	Ch. 900 Side Rd	0 m	614319, 896138	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M84	Limekiln	Ch. 974 Side Rd	51 m S	614336, 896042	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works
M98	Vernacular structure	Ch. 2+750 Link Rd	0 m	616449, 896163	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M99	Vernacular structure	Ch. 50 Side Rd Upgrade	0 m	616403, 896109	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M131	Limekiln	Ch. 50 Side Rd	0 m	616195, 895133	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M132	Railway line	Ch. 250 Side Rd	0 m	616424, 895118	Direct	Slight	Measured written, drawn and photographic record prior to construction, including a mechanically excavated cross-sectional test trench
M134	Limekiln	Ch. 5+250	0 m	614472, 896975	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M137	Limekiln	Ch. 400 Side Rd	27 m SE	614123, 896597	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M141	Limekiln	Ch. 4+700	11 m SE	614226, 896472	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M146	Well	Ch. 4+400	0 m	614034, 896223	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M148	Limekiln	Ch. 4+300	34 m SE	613932, 896162	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M149	Limekiln	Ch. 0 Side Rd	28 m W	613785, 896162	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required as part

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							of LMA for accommodation/temporary works
M150	Limekiln	Ch 800 Side Rd	0 m	614146, 896140	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M154	Well	Ch. 100 Side Rd	0 m	613686, 895894	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M155	Well	Ch. 4+150	0 m	613857, 896009	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M159	Limekiln	Ch 0 Side Rd	0 m	613668, 895811	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M160	Vernacular structure	Ch. 150 Side Rd	0 m	613686, 895851	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M161	Well	Ch. 150 Side Rd	0 m	613691, 895895	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M163	Well	Ch. 3+450	34 m NW	613364, 895598	Indirect	Slight	Application of exclusion zone during construction stage works
M165	Well	Ch. 3+025	0 m	613031, 895309	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M180	Limekiln	Ch. 100 Link Rd	24 m W	611861, 895022	Indirect	Slight	Application of exclusion zone during construction stage works
M181	Limekiln	Ch. 00 Link Rd	11 m W	611899, 895069	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M182	Well & Vernacular Structures	Ch. 00 Link Rd	0 m	611903, 895085	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M192	Limekiln	Ch. 2+000	39 m NW	612173, 894776	Indirect	Slight	Application of exclusion zone during construction stage works
M203	Limekiln	Ch. 700 Side Rd	17 m SE	612168, 894447	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M207	Limekiln	Ch. 1+800	0 m	612140, 894539	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M208	Limekiln	Ch. 0 Side Rd	0 m	612077, 894395	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M209	Limekiln	Ch. 1+500	0 m	611878, 894360	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M211	School house/ Dispensary	Ch. 0 Online Upgrade	0 m	612063, 894343	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M215	Limekiln	Ch. 0 Junction Link	87 m NW	611776, 894636	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M221	Well	Ch. 1+800	0 m	612132, 894548	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M222	Spring	Ch. 700 Side Rd	0 m	612131, 894481	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M223	Limekiln	Ch. 1+800	0 m	612140, 894539	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M224	Limekiln	Ch. 0 Junction Link	105 m NW	611772, 894651	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works
M236	Limekiln	Ch. 00 Side Rd	108 m NW	611413, 894322	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M240	Spring	Ch. 1+150	0 m	611585, 894186	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M242	Limekiln	Ch. 1+150	63 m NW	611529, 894215	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M243	Vernacular structure	Ch. 100 Side Rd	41 m NW	611420, 894138	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							of LMA for accommodation/temporary works
M244	Vernacular structure	Ch. 50 Side Rd	0 m	611512, 894200	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M245	Vernacular structure	Ch. 1+300	19 m NW	611667, 894282	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works
M246	Limekiln	Ch. 0 Side Rd	0 m	611039, 893768	Indirect	Slight	Application of exclusion zone during construction stage works
M249	Vernacular structure	Ch. 550	74 m SE	611243, 893727	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M250	Vernacular structure	Ch. 650	0 m	611179, 893895	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M252	Vernacular structure	Ch. 400	52 m NE	611164, 893622	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M264	Limekiln	Ch. 400 (Attenuation Pond)	60 m NE	611209, 893583	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M265	Limekiln	Ch. 150 Side Rd	31 m SW	611146, 893494	Indirect	Slight	Application of exclusion zone during construction stage works
M266	Limekiln	Ch. 250	0 m	611038, 893518	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M267	Limekiln	Ch. 150 Side Rd	0 m	611075, 893478	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M271	Limekiln	Ch. 250 Side Rd	4 m	611082, 893367	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M272	Limekiln	Ch. 100	11 m	611022, 893338	Indirect	Slight	Application of exclusion zone during construction stage works
M284	Vernacular structure	Ch. 0 Side Rd	0 m	610328, 892820	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M286	Ford	Ch. 50	90 m SE	611158, 893260	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M300	Vernacular structure	Ch. 0 Side Rd	0 m	610330, 892823	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M303	Vernacular structure	Ch. 0 Online Upgrade	0 m	610264, 892747	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works
M747	Former flax dam	Ch. 00 (S terminus)	9 m W	610032, 892757	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							stage, if required as part of LMA for accommodation/temporary works
Townland boundaries							
S1-T01	Meencargagh/ Dooish	Ch. 0 (Link Rd, southern terminus)	0 m	610287, 892804	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S1-T02	Dooish/ Cappry	Ch. 400 (Mainline and Link Rd, southern terminus)	0 m	610872, 893341 610938, 893209	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S1-T03	Cappry/ Ballybofey	Ch. 1400 (Link Rd. to N15 west of Ballybofey)	0 m	612811, 894284	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
S1-T04	Cappry/ Ironworks	Ch. 2+400	0 m	612482, 895001	Direct	Slight	Written and photographic River Finn boundary setting record prior to construction
S1-T05	Ironworks/ Drumboe Lower	Ch. 2+450	0 m	612508, 895026	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
S1-T06	Drumboe Lower/ Magherapaste	Ch. 3+900	0 m	613761, 895808	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S1-T07	Magherapaste/ Drumboe Upper	Link Rds x 2, Ch. 4+050	0 m	613659, 895889 613717, 895896	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
				613845, 895931			
S1-T08	Drumboe Upper/ Backlees Ch. 4+800		0 m	614252, 896575	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record together with test archaeological section trench and evaluation prior to construction
S1-T08a	Drumboe Upper/Dunwiley Ch. 850 Link Rd		0 m	614248, 896187	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record together with test archaeological section trench and evaluation prior to construction
S1-T09	Backlees/ Dunwiley	Link Rd, adjacent Ch. 4+850 Ch. 5+425	0 m	614291, 896559	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
				614668, 897024			
S1-T10	Dunwiley/ Teevickmoy	Ch. 6+250	0 m	615139, 897650	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
S1-T10a	Teevickmoy/ Tircallan	Ch. 1+350	0 m	616025, 897948	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
S1-T11	Teevickmoy/ Meenavoy	Ch. 8+525 Ch. 300 Link Rd	0 m	615925, 899542	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
				616082, 899728			

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
S1-T12	Teevickmoy/ Magheracorran & Parish Boundary: Stranorlar/Convoy	Ch. 8+550 (Link Rd, northern terminus) and E arm, roundabout, northern terminus	0 m	616103, 899707 616250, 899457	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S1-T13	Meenavoy/ Callan	Ch. 250 Northern Link Terminus)	0 m	616020, 899974	Direct	Slight	Written and photographic Cloghroe River boundary setting record prior to construction
S1-T14	Lettermackenny/ Teevickmoy	Ch. 50 Side Rd	0 m	614792, 898186	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S1-T15	Teevickmoy/ Dunwiley	Ch. 600 Mullandrait Link Rd.	0 m	615340, 897685	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S1-T16	Dunwiley/ Knockfair	Ch. 1+375 Junction with N13 (link rd)	0 m	615861, 897221	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S1-T17	Knockfair/ Tircallen	Ch. 1+900 – 2+000 Mullandrait Link Rd.	0 m	616144, 897020	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S1-T18	Knockfair/ Mullaghagarry	Ch. 1+700 Mullandrait Link Rd	0 m	616262, 896906 616319, 896857	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
S1-T19	Knockfair/ Castlebane	Ch. 2+200 Mullandrait Link Rd.	0 m	616482, 896682	Direct	Slight	Full measured written, drawn and photographic record, together with test

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							archaeological section trench and evaluation prior to construction
S1-T19a	Castlebane/ Treanamullin	Ch. 350 Side rd	0 m	616671, 896205	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S1-T20	Castlebane/ Mullandrait	Ch. 3+225 Mullandrait Link Rd.	0 m	616363, 895772	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S1-T21	Mullandrait/ Treanamullin	Ch. 150 Mullandrait Link terminus (eastern side rd)	0 m	616604, 895180	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S1-T22	Teevickmoy/ Tircallen	Link Rd (northern terminus area)	0 m	616024, 897949	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction

17.4.1.2 Section 2 of the Proposed Development

Detailed in Table 17-60 are mitigation measures for construction stage impacts on the Cultural Heritage Resource for Section 2.

Table 17-60: Section 2 Construction Stage Mitigation Measures for the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Recorded archaeological RMP/SMR sites							
DG053-059---	Enclosure	Ch. 0+950 (Junction Arm)	0 m	620852, 911349	Direct	Moderate	<p>This site was recently identified and added to the SMR (2023) and was subsequently tested (2025) and found to be non-archaeological.</p> <p>However, a portion of this site located within the Proposed Development boundary will still require full archaeological evaluation, to ensure no archaeological remains exist within the untested areas. This area will be stripped of topsoil under archaeological supervision, with the remaining portion outside the Proposed Development footprint to be preserved in situ.</p> <p>In the event of an archaeological find, if it cannot be preserved in situ, full excavation by record of the site (in part) will be undertaken as part of advance works thereafter, subject to statutory approval.</p>
DG053-026---	Ringfort	Ch. 0+350	65 m	618900, 911715	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works.
DG053-028---	Church – site of	Ch. 1+450	0 m	621387, 911469	Direct	Slight	Further test excavation and/or ground stripping under archaeological supervision within the vicinity of the site following site clearance works and in advance of construction and subject to statutory approval
DG053-028001-	Graveyard – site of	Ch. 1+450	0 m	621387, 911469	Direct	Slight	Further test excavation and/or ground stripping under archaeological supervision within the vicinity of the

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							site following site clearance works and in advance of construction and subject to statutory approval.
DG053-052---	Redundant Record	n/a	n/a	621347, 911689	n/a	n/a	n/a
DG053-027001-	Rock Art	Ch. 1+700	192 m NW of access rd	621418, 911765	No predicted impact	Imperceptible	None
DG053-027002-	Rock Art	Ch. 1+700	211 m N of online N13 alignment	621503, 911811	No predicted impact	Imperceptible	None
DG053-027003-	Rock Art	Ch. 1+700	219 m N of online N13 alignment	621520, 911825	No predicted impact	Imperceptible	None
DG053-027004-	Rock Art	Ch. 1+700	189 m N of online N13 alignment	621548, 911807	No predicted impact	Imperceptible	None
Recorded architectural heritage (RPS/NIAH) heritage sites							
40905301	Leck COI Church	Ch. 00 Online upgrade	18 m E	619518, 910103	Indirect	Not Significant	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works.
40905339	House (Pair of)	Ch. 0+450	55 m N (online N13)	620523, 910934	No predicted impact	Not Significant	None
40905390	Mill	Ch. 0+400	77 m E/NE	620477, 910954	Indirect	Moderate	Outside Proposed Development boundary. Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.
40905394	Railway Bridge	Ch. 2+100	85 m W	619984, 910480	Indirect	Moderate	Outside Proposed Development boundary. Provision of exclusion zone at this road network location for works-related heavy vehicles during construction stage.
40906111	Bridge	Ch. 00	130 m SE	619915, 907605	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone for works-related heavy vehicles at this road network location during construction stage.

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Identified cultural heritage LiDAR assessment and field survey sites							
TA2	Burnt Spread	Ch. 00 Junction Roundabout	0 m	621220, 911219	Direct	Moderate	Full archaeological excavation (preservation by record) including post-excavation assessment and reporting
L212-3	Enclosure Possible	Ch. 0+300 Northern Trimragh junction arm link	17 m NW	620852, 911348	Direct	Potential Significant	Archaeological geophysical survey followed by archaeological testing in advance of construction
L229-1	Lime Kiln	Ch. 00	63 m N (Online local Rd upgrade)	619532, 908307	No predicted impact	Imperceptible	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
F-2-01	AAP	Ch. 0+950	0 m	619747, 909427	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction
F-2-02	Fairy Tree - possible	Ch. 550 Access Rd	34 m S	620014, 909778	Indirect	Not Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
F-2-03	AAP	Ch. 1+450	0 m	619778, 909897	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction
S2-BH04	Disused railway line	Ch. 2+100	0 m	620134, 910487	Direct	Slight	Full measured written, drawn and photographic record prior to construction including cross-section test trench
F-2-04	AAP: Former Brickworks	Ch. 700 Link Rd	0 m	619185, 911553	Direct	Potential Significant	Archaeological testing in advance of construction
F-2-05	Dromore House	Ch. 0+550	25 m	620009, 910748	Indirect	Moderate	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage
F-2-06	Dromore House Mill Structure	Ch. 1800 Link Rd	0 m	620024, 910833	Direct	Moderate	Full measured written, drawn and photographic record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
F-2-07	AAP	Ch. 350 N Junction Arm	0 m	620974, 911242	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing in advance of construction
S2-BH02	Former Railway Line	Ch. 2+500	35 m SW	622278, 911023	Indirect	Not Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
Areas of Archaeological Potential							
S2-AAP01	Area of potential adjacent ringfort 'WhiteLink Rd fort' DG053-026--- Estuarian and floodplains of River Swilly at area of Milk Isle (Ref. F-2-04 Brickworks flint artefact finds on shores of Swilly)	Ch. 0+150 – 0+9500 m		618938, 911805	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction
S2-AAP04	Area of elevated well-drained ground at the northern area of Drumgreggan townland (Field survey F-2-07 and LiDAR enclosure L212-3 area also overlooks Farsetmore fording point and location of Battle are on northern banks of Swilly within vicinity of Trimragh 'site of church and graveyard DG053-028--)	Ch. 0 – 0+550, roundabout and Ch. 00 – 0+100 of northern Trimragh junction arm links	0 m	621081, 911333	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
S2-AAP05	Natural level platform area on elevated position (Ref. F-2-03) and higher ground – SE rising ridge, above River Swilly (at north) (Ref. F-2-01)	Ch. 1+200-1+800 Ch. 0+850-1+050	0 m	619778, 909897 619747, 909427	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction
Underwater/Riverine Archaeology							
S2-R01	River Swilly	Ch. 0500 Ballyraine Link Rd	0 m	619071, 911692	Direct	Potential Significant	Assessment of available geotechnical investigation datasets to inform archaeological testing strategies in advance of construction. Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.
S2-R02	Milk Isle channels (2 No.)	Ch. 0750 and Ch. 0+950 Ballyraine Link Rd	0 m	619216, 911509 & 619332, 911316	Direct	Potential Significant	Assessment of available geotechnical investigation datasets to inform archaeological testing strategies in advance of construction. Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of channel in advance of construction.
Historic OS Mapping Sites							
M312	Vernacular structure (x2)	Ch. 250 Link Rd	13 m NE	618921, 911883	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage
M313	Vernacular structure (x4)	Ch. 350 Link Rd	59 m SE	618903, 911711	Indirect	Imperceptible	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M314	Well	Ch. 250 Link Rd.	7 m NE	618901, 911889	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M330	Well	Ch. 1+850	12 m W	920040, 910783	Direct	Not Significant	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M332	Sluice	Ch. 1+850	0 m	620034, 910811	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M333	Mill pond	Ch. 1+850	0 m	620046, 910793	Direct	Not Significant	Incorporate as part of archaeological a testing programme with evaluation and recording in advance of construction stage
M334	Level crossing	Ch. 0+550	0 m	620033, 910714	Direct	Slight	Measured written, drawn and photographic record prior to construction
M336	Pond	Ch. 00	57 m NE	619868, 910737	No predicted impact	Imperceptible	None
M337	Vernacular structure	Ch. 0+525	0 m	620018, 910671	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M338	Vernacular structure	Ch. 0+500	9 m SW	620005, 910656	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M339	Vernacular structure (on an existing rd)	Ch. 0+500	0 m	619997, 910630	Direct	Imperceptible	None
M340	Milepost	Ch. 0+250	0 m	619751, 910642	Direct	Slight	Not located, possibly removed – conduct field-based screening of area and removal for safe-storage if recovered
M341	Vernacular structure (Smithy) (on an existing rd)	Ch. 0+550	4 m S	620041, 910638	Direct	Imperceptible	None

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M342	Limekiln	Ch. 2+300	0 m	620127, 910657	Direct	Slight	Measured (with excavation if required), written, drawn and photographic record prior to construction
M343	Spring	Ch.2+300	0 m	620186, 910691	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M344	Pond	Ch. 100 Side Rd	13 m S	620249, 910730	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M345	Spring	Ch. 749 Link Rd	27 m S	620363, 910847	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M346	Pond	Ch. 749 Link Rd	0 m	620371, 910877	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M348	Spring	Ch. 700 Link Rd	59 m E	620461, 910947	No predicted impact	Imperceptible	None
M349	Spring	Ch. 0+450 (online)	14 m N	620555, 910898	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M351	Vernacular structure	Ch. 700	98 m E	620499, 910957	No predicted impact	Imperceptible	None
M352	Vernacular structure	Ch. 650	109 m E	620492, 910984	No predicted impact	Imperceptible	None
M353	Pond	Ch. 0+500 (online)	24 m S	620632, 910859	No predicted impact	Imperceptible	None
M354	Stone'	Ch. 1+000	31 m S	621075, 911115	No predicted impact	Imperceptible	None
M355	Cave'	Ch. 0+350	123 m S	620548, 910715	No predicted impact	Imperceptible	None

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M364	Vernacular structure	Ch. 1+950	143 m E	620239, 910324	No predicted impact	Imperceptible	None
M365	School House	Ch. 1+900	97 m E	620161, 910273	No predicted impact	Imperceptible	None
M366	School House	Ch. 0+100	9 m E	620156, 910343	Indirect	Imperceptible	On edge of Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage
M367	Well	Ch. 0+100 (Access 0 m Road)		620141, 910337	Direct	Not significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M368	Spring	Ch. 1+950	80 m E	620157, 910286	No predicted impact	Imperceptible	None
M369	Pond	Ch. 1+900	84 m SE	620124, 910231	No predicted impact	Imperceptible	None
M370	Pond	Ch. 1+900	83 m SE	620145, 910260	No predicted impact	Imperceptible	None
M371	House (Drum Lodge)	Ch. 0+100 (Access 0 m Road)		620132, 910355	Direct	Moderate	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M372	Pond	Ch. 2+050	11 m W	620047, 910450	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M373	Pond	Ch. 1+900	51 m W	619934, 910343	No predicted impact	Imperceptible	None
M376	Pond	Ch. 1+700	54 m W	619811, 910167	No predicted impact	Imperceptible	None
M377	Pond	Ch. 1+650	72 m SE	619967, 910052	No predicted impact	Imperceptible	None

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M378	Well	Ch. 550 (Access Rd)	123 m N	619989, 909967	No predicted impact	Imperceptible	None
M379	Well	Ch. 500 (Access Rd)	19 m N	619934, 909833	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M380	Well	Ch. 500 (Access Rd)	26 m N	619939, 909842	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M381	Limekiln	Ch. 400 (Access Rd)	0 m	619856, 909825	Direct	Moderate	Measured (with excavation if required), written, drawn and photographic record prior to construction
M382	Ponds	Ch. 500 (Access Rd)	49 m N	619954, 909875	No predicted impact	Imperceptible	None
M384	Well	Ch. 400 (Access Rd)	5 m S	619873, 909706	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M385	Well	Ch. 0+950	0 m	619759, 909402	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M386	Well	Ch. 0+950	0 m	619729, 909451	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M387	Vernacular structure	Ch. 1+000	10 m W	619709, 909472	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M391	Well	Ch. 100 (N Junction link)	0 m	620733, 911199	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M392	Vernacular structure	Ch. 100	11 m SW	620749, 911154	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M393	Spring	Ch. 150	13 m SE	620798, 911204	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M396	Limekiln	Ch. 1+900	78 m N	621765, 911709	No predicted impact	Imperceptible	None
M397	Well	Ch. 1+900	95 m N	621757, 911726	No predicted impact	Imperceptible	None
M398	Well	Ch. 1+975	24 m S	621851, 911544	No predicted impact	Imperceptible	None
M399	Well	Ch. 2+000	47 m S	621847, 911523	No predicted impact	Imperceptible	None
M400	Corn Kiln	Ch. 2+000	58 m S	621847, 911510	No predicted impact	Imperceptible	None
M401	Vernacular structure	Ch. 1+925	32 m S	621798, 911546	No predicted impact	Imperceptible	None
M403	Level crossing (existing online N13)	Ch. 350 (Junction Link)	0 m	621421, 911539	No predicted impact	Imperceptible	None
M404	Flax Mill	Ch. 150 (S Junction Link)	6 m S	621239, 911174	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M405	Mill pond	Ch. 200 (S Junction Link)	26 m W	621257, 911140	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M406	Ponds	Ch. 150 (S Junction Link)	64 m S	621405, 911222	No predicted impact	Imperceptible	None

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M420	Vernacular structure	Ch. 2+250	73 m NE	622110, 911572	No predicted impact	Imperceptible	None
M421	Spring	Ch. 2+250	98 m NE	622145, 911576	No predicted impact	Imperceptible	None
M422	Spring	Ch. 2+150	78 m NE	622071, 911605	No predicted impact	Imperceptible	None
M423	Spring	Ch. 300 (Access Rd)	86 m NE	6222429, 911357	No predicted impact	Imperceptible	None
M424	Vernacular structure	Ch. 300 (Access Rd)	0 m	622393, 911275	Direct	Moderate	Measured, written, drawn and photographic record prior to construction
M425	Pond	Ch. 2+550	36 m SW	622299, 911232	No predicted impact	Imperceptible	None
M428	Sluice	Ch. 3+400	112 m N	623074, 911007	No predicted impact	Imperceptible	None
M437	Sluice	Ch. 3+550	94 m N	623224, 910933	No predicted impact	Imperceptible	None
M438	Spring	Ch. 00 online Local Rd	9 m E	619509, 909439	No predicted impact	Imperceptible	None
M439	Vernacular structure (online existing rd)	Ch. 00 online Local Rd	15 m W	619471, 909397	No predicted impact	Imperceptible	None
M440	Well (online existing rd)	Ch. 00 online Local Rd	31 m W	619450, 909403	No predicted impact	Imperceptible	None
M441	Limekiln (online existing rd)	Ch. 00 Online upgrade	5 m E	619534, 909181	No predicted impact	Imperceptible	None
M442	Well	Ch. 350 Local Access Rd	11 m W	619481, 909226	No predicted impact	Imperceptible	None
M443	Vernacular structure	Ch. 300 Local Access Rd	25 m NW	619472, 909182	No predicted impact	Imperceptible	None

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M444	Vernacular structure	Ch. 300 Local Access Rd	18 m NW	619484, 909194	No predicted impact	Imperceptible	None
M446	Well	Ch. 00 Roundabout	25 m W	619452, 908723	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
447	Vernacular structure	Ch. 00 Roundabout	0 m	619492, 908753	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M448	Limekiln	Access Rd Online Access Upgrade	0 m	619601, 908575	Direct	Not Significant	Measured (with excavation if required), written, drawn and photographic record prior to construction
M449	Well	Ch. 900 Link Rd	49 m W	619755, 908494	No predicted impact	Imperceptible	None
M450	Well	Ch. 900 Link Rd	75 m W	619713, 908528	No predicted impact	Imperceptible	None
M452	Well	Ch. 00 Online Upgrade	118 m SE	619562, 908419	No predicted impact	Imperceptible	None
M453	Vernacular structure	Ch. 00 Online Upgrade	30 m SE	619530, 908508	No predicted impact	Imperceptible	None
M454	Well	Ch. 00 Roundabout	26 m W	619451, 908721	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M455	Vernacular structure	Ch. 00 online upgrade	68 m S	619483, 908454	No predicted impact	Imperceptible	None
M457	Well	Ch 00 Local Rd upgrade	91 m N	619548, 908333	No predicted impact	Imperceptible	None
M459	Limekiln	Ch. 00 Local Rd Upgrade	67 m N	619501, 908312	No predicted impact	Imperceptible	None
M460	Vernacular structure	Ch. 00 Local Rd Upgrade	60 m NE	619546, 908298	No predicted impact	Imperceptible	None

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M461	Vernacular structure	Ch. 00 Local Rd Upgrade	71 m NE	619565, 908300	No predicted impact	Imperceptible	None
M463	Well	Ch. 00 Local Rd Upgrade	133 m W	619376, 908237	No predicted impact	Imperceptible	None
M468	Spring	Ch. 00 Local Rd Upgrade	102 m NE	619469, 908002	No predicted impact	Imperceptible	None
M469	Vernacular structure (x2)	Ch. 00 Local Rd Upgrade	126 m NE	619427, 908009	No predicted impact	Imperceptible	None
M475	Corn Mill and Kiln	Ch. 00 Link Rd	34 m SE	619833, 907657	No predicted impact	Imperceptible	None
M476	Smithy	Ch. 00 Link Rd	59 m S	619826, 907626	No predicted impact	Imperceptible	None
M477	Mill Race	Ch. 00 Link Rd	31 m N	619803, 907652	No predicted impact	Imperceptible	None
Townland boundaries							
S2-T01	Mature tree/hedgerow	Ch. 0+150	0 m	619704, 907808	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S2-T02	Commercial forestry at Ch. 0+500 Ch. 0+500 Mature tree/hedgerow elsewhere	Ch. 0+300 (Access Rd) Ch. 0+250 (Access Rd)	0 m	619591, 908984, 619450, 908799 619400, 908725	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S2-T03	Commercial forestry	Ch. 0+650	0 m	619651, 909120	No predicted impact	Imperceptible	None
S2-T03a	Existing N13	Online	0 m	619490, 909428	No predicted impact	Imperceptible	None

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
				619481, 910019			
				619476, 910445			
S2-T04	Coaghmill stream, ditch and bank with hedgerow	Ch. 0+175 (Access Rd)	0 m	619640, 909701	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S2-T05	Existing local road, on edge of mature woodland pocket	Ch. 2+050	0 m	620084, 910439	No predicted impact	Imperceptible	None
S2-T06	Existing N13	Ch. 0+350	0 m	619851, 910653	No predicted impact	Imperceptible	None
S2-T07	Existing N13	Ch. 00 Roundabout	0 m	619533, 910650	No predicted impact	Imperceptible	None
S2-T08	Mature tree/vegetation pocket	Ch. 0+075 Link Rd	0 m	619769, 910743	No predicted impact	Imperceptible	None
S2-T09	Bank and ditch/stream with mature hedge, extends to river Swilly	Ch. 0+250 (Link Rd) Ch. 1+300	0 m	619750, 910710	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
				619620, 910990			
				619579, 911064			
				619522, 911138			

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
S2-T10	Bank/ditch along reclaimed ground near Swilly	Ch. 0+950 Ch. 0+750	0 m	619329, 911316 619212, 911512	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S2-T10a	River Swilly banks (extensively reclaimed)	Ch. 50 Ch. 450	0 m	619075, 911683 619039, 911719	No predicted impact	Imperceptible	None
S2-T11	Existing N13	Ch. 0+400 (online) Ch. 0+800 (online)	0 m	620544, 910865 620909, 911062	No predicted impact	Imperceptible	None
S2-T12	Farsetmore stream, lined with mature trees and vegetation save for portion at existing N13	Ch. 0+150 (junction link) Ch. 0+100 (junction link) Ch. 0+050 (junction link) Ch. 1+250 online Ch. 0+100 (junction link)	0 m	621261, 911073 621234, 911196 621233, 911281 621224, 911339 621217, 911447	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
S2-T13	Online existing N13	Ch. 2+350	0 m	622191, 911394	No predicted impact	Imperceptible	None
S2-T14	Online existing N13 (Trimragh stream culvert)	Ch. 2+650	0 m	622412, 911213	No predicted impact	Imperceptible	None
S2-T15	Magheramore stream, lined with mature vegetation	Ch. 2+900	0 m	622651, 911086	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S2-T16	Online existing N13 (Leslie Hill stream culvert)	Ch. 3+400	0 m	623075, 910863	No predicted impact	Imperceptible	None

17.4.1.3 Section 3 of the Proposed Development

Detailed in Table 17-61 are mitigation measures for construction stage impacts on the Cultural Heritage Resource for Section 3.

Table 17-61: Section 3 Construction Stage Mitigation Measures for the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Recorded archaeological (RMP/SMR/NI:SMR) sites							
DG054-032--- / Church NIAH 40827009		Ch 00 Access Rd	350 m NE	624171, 911045	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, for accommodation/ temporary works
DG054-032001-	Graveyard	Ch 00 Access Rd	350 m NE	624171, 911045	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works
DG054-032002-	Architectural fragment	Ch. 00 Access Rd	350 m NE	624171, 911045	Indirect	Imperceptible	None
DG054-038---	Pluck Standing stone	Ch. 00 Access Rd	254 m SW	623308, 910274	Indirect	Moderate	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, for accommodation/ temporary works
DG054-040---	Standing stone	Ch. 1+500	169 m SW	624718, 910165	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, for accommodation/ temporary works
DG070-032----	Standing stone (site of)	Ch. 0+200 Access Rd	112 m NE	630611, 901048	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works
DG070-033----	Stone (site of)	Ch. 0+200 Access Rd	66 m NE	630570, 900977	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, for accommodation/ temporary works
DG070-048----	Standing stone (site of)	Ch. 15+100	12 m N ZoN within alignment footprint	631630, 899335	Indirect	Moderate	Inside Proposed Development boundary. Targeted test excavation of identified geophysical features/anomalies

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							within overall Proposed Development boundary. If required and feasible, preservation in situ or preservation by record
DG070-049----	Standing stone (site of)	Ch 15+100	76 m S	631595, 899154	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, for accommodation/ temporary works
DG070-082----	Souterrain	Ch. 0+200 Junction Link	12 m S ZoN not allocated	632263, 897206	Indirect	Moderate	Souterrain and TA5: enclosure (Curraghalane 1) and prehistoric Neolithic settlement (Curraghalane 2) just outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage
DG071-005----	Standing stone – (site of)	Ch. 16+300	108 m E	632525, 898541	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works
DG070-074001-	Hillfort	Ch 17+000	2.5 km W	629887, 897450	Indirect	Not Significant	None
DG070-074002-	Passage tomb	Ch 17+000	2.5 km W	629887, 897450	Indirect	Not Significant	None
TYR004:008	Battle Site (1588)	Ch. 0+300	0 m (along riverbank)	632345, 896492	Direct	Slight	Archaeological geophysical survey, metal detection and testing in advance of construction
Recorded architectural heritage (RPS/NIAH) sites							
RPS 40906203	House (Annie Tourish's) (Demolished)	Ch. 0+100 Side Rd	0 m	628776, 903969	Direct	Slight	Within Proposed Development boundary. Archaeological testing with evaluation and recording in advance of construction stage
RPS 40907026 / NIAH 40834001	Cavanacor House (incl gate-lodge and entrances)	Ch. 1+300 (Side Rd)	178 m N	631322, 900236	Indirect	Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage Baseline inspection record of gate-lodge together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
40834004	St Patrick's Bell Tower	Ch. 0+350 Link	20 m E	631914, 899459	Indirect	Moderate	Outside Proposed Development boundary. Reinforcement of existing field boundary hedgerow to west, with additional planting Reinforcement of field boundary to west with additional planting for screening purpose
RPS 40907020/St Patrick's Church NIAH 40834003		Ch. 0+350 Link	44 m W	631963, 899456	Indirect	Moderate	Outside Proposed Development boundary. Reinforcement of existing field boundary hedgerow to west, with additional planting Reinforcement of field boundary to west with additional planting for screening purpose
40834002	Manse	Ch. 0+350 Link	39 m E	631818, 899517	Indirect	Moderate	Outside Proposed Development boundary Reinforcement of existing field boundary hedgerow to west, with additional planting Reinforcement of field boundary to west with additional planting for screening purpose
40827011 / M509, M482 & M483, M498	Manse	Ch. 0+200	53 m NE	623692, 910766	Indirect	Significant	Outside Proposed Development boundary. No applicable mitigation measures
40834006	Outbuilding	Ch. 14+600	17 m NE	631361, 899575	Indirect	Significant	Outside Proposed Development boundary. Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.
40834017	Goods Shed	Ch. 14+100	58 m S	630815, 900024	Indirect	Moderate	Outside Proposed Development boundary but a land-locked area. Ensure provision of exclusion zone at this location during construction stage. Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.
40834011	Station Masters House/ Building Misc	Ch. 14+000	15 m W	630864, 900013	Indirect	Moderate	Outside Proposed Development boundary but a land-locked area. Ensure provision of exclusion zone at this location during construction stage. Baseline inspection

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.
40834014	Station Master's House	Ch. 0+200 Side Rd	0 m	630394, 900308	Direct	Significant	Inside Proposed Development boundary. Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
40835028	Croaghan House	Ch. 16+800	66 m W	632331, 897998	Indirect	Very Significant	Outside Proposed Development boundary. Ensure that temporary access provisions are reversible during construction stage
40905456	Connaghan's Bridge	Ch. 00 Side Rd	146 m SW	623467, 910234	Indirect	Slight	Outside Proposed Development boundary. Ensure that heavy construction vehicles do not utilise this public road route during construction stage
40906245 / M565	Outbuilding	Ch. 3+500	31 m NE	625893, 908742	Indirect	Significant	Outside Proposed Development boundary. Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.
40906262	House	Ch. 9+200	7 m SW	628672, 904128	Indirect	Moderate	Inside Proposed Development boundary. Provision of exclusion zone at this location during construction stage. Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.
DG0028	Cavanacor	Ch. 14+000	0 m	631244, 900234	Direct	Significant	Inside Proposed Development boundary. Written and photographic demesne setting record prior to construction.
DG0040	Carricknaslate	Ch. 16+800	0 m	632483, 897992	Direct	Very Significant	Inside Proposed Development boundary. Full measured written, drawn and photographic record of designed landscape (access avenue, northern and southern boundaries) prior to removal. Archaeological testing with subsequent evaluation and recording of sub-surface features prior to construction.

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Identified cultural heritage LiDAR assessment and field survey sites							
TA-3	Prehistoric settlement/ camp (pit C.46 and C.48)	Ch. 8+950	0 m	630072, 901914	Direct	Moderate	Full archaeological preservation by record of pit feature within alignment footprint and any associated archaeological remains identified within the alignment and development boundary. Provision of exclusion zone at adjacent prehistoric settlement TA3 location outside Proposed Development boundary to east/northeast during construction stage.
L138-12	Pond	Ch. 10+400	23 m E	629445, 903129	Indirect	Slight	Provision of exclusion zone at this location during construction stage.
L307-3	Mound Possible	Ch. 2+100	0 m	625373, 910041	Direct	Potential Significant	Archaeological geophysical survey followed by archaeological testing in advance of construction.
L310-1	Former railway line	Ch. 2+200	0 m	625422, 909973	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
L321-1	Road	Ch. 5+500	0 m	627276, 907480	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
L334-4	Enclosure Possible	Ch. 8+300	20 m W	628453, 904952	Direct	Potential Significant	Archaeological geophysical survey followed by archaeological testing in advance of construction.
L338-1 / M657, M672, M673, M674	Mill Pond	Ch. 10+400	0 m	629385, 903135	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
L338-2	Mill race	Ch. 10+400	0 m	629480, 903902	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
L338-4	Flax Mill	Ch. 1+567 (Side Rd)	37 m S	629759, 903076	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, for accommodation/ temporary works.

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
L338-5	Mill pond	Ch. 1+567 (Side Rd)	66 m SE	629799, 903082	Indirect	Slight	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage, if required, for accommodation/ temporary works.
L338-6	Mill race	Ch. 10+400	0 m	629471, 903097	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
L338-7	Mill pond	Ch. 10+400	0 m	629383, 903143	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
L338-8	Burnt Mound possible	Ch. 10+000	0 m	629263, 903449	Direct	Potential Significant	Archaeological geophysical survey followed by archaeological testing in advance of construction.
L345-2	Possible enclosure(s)	Ch. 0+100 Access Road	0 m	629747, 901618	Direct	Potential Slight	Archaeological geophysical survey followed by archaeological testing in advance of construction at area of townland boundary.
L345-3	Former railway line	Ch. 14+100 and Ch. 0+300 (Side Rd)	0 m	630581, 900102	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
L349-2 / M689	Building	Ch. 13+100	112 m SE	630278, 900818	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, for accommodation/ temporary works.
L349-3 / M704	Lime Kiln	Ch. 13+850	0 m	630761, 900186	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
L354-2 / M715	Farmstead	Ch. 14+800	0 m	631415, 899424	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
L354-4	Farmstead	Ch. 14+800	0 m	631406, 899417	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
L354-5 / M720	Well	Ch. 14+950	0 m	631480, 899314	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
F-3-01 / M510 & M511	Holme farmstead	Ch. 1+250	0 m	624585, 910362	Direct	Moderate	Archaeological testing with evaluation and recording in advance of construction stage.
F-3-02	Carrickbally-dooley farmstead and laneway	Ch. 1+500	0 m	624856, 910326	Direct	Slight	Archaeological testing with evaluation and recording of laneway in advance of construction stage.
F-3-03	Fairy Tree - possible	Ch. 1+800	0 m	625134, 910177	Direct	Moderate	Archaeological testing with evaluation and recording in advance of construction stage.
F-3-04 / M555	Lime Kiln, stone wall, laneway	Ch. 2+300	0 m	625516, 909875	Direct	Moderate	Archaeological testing with evaluation and recording in advance of construction stage.
F-3-05	Tree Plantation	Ch. 2+600	0 m	625624, 909642	Direct	Moderate	Archaeological testing with evaluation and recording in advance of construction stage.
F-3-07	AAP	Ch. 5+600	0 m	627293, 907427	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction
F-3-08 / M610, AAP M611		Ch. 6+600	0 m	627706, 906497	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction.
F-3-09 / M614	House	Ch. 6+900	67 m E	627941, 906201	Indirect	Slight	Outside Proposed Development boundary. None.
F-3-10	AAP	Ch. 7+400	0 m	628073, 905744	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction.
F-3-11	AAP	Ch. 8+200	0 m	628357, 905068	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction.

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
F-3-12	AAP	Ch. 8+500	0 m	628488, 904742	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction.
F-3-13 / M652	Ruined cottage	Ch. 9+400	0 m	628866, 904004	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.
F-3-14	Bridge	Ch. 9+250	0 m	628737, 904066	Direct	Moderate	Full measured written, drawn and photographic record, including setting.
Areas of archaeological potential							
S3-AAP01	Central point ITM, wet marshy area, potential for <i>fulachta fiadh</i>	Ch. 0+600	0 m	623979, 910548	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction.
	Undulating and well-drained pasture, southerly aspect central ITM	Ch. 2+300		625492, 909853			
S3-AAP02	Wet lowland pasture, AAP for <i>fulachta fiadh</i> and burnt spreads	Ch. 4+500	0 m	626597, 908265	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction.
S3-AAP03	Undulating rough pasture, flat areas, generally fair archaeological potential	Ch. 9+900	0 m	629186, 903572	Direct	Potential Significant	Archaeological geophysical survey testing in advance of construction.
	Gently undulating/flat lands that reach northern banks of Swilly Burn: wet area adjacent river (drainage interventions noted in field drains, flood embankments etc.). Swilly Burn is an important historical boundary and although channelised post-Plantation) may	Ch. 11+400		629440, 902155			

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
	originally have had a much wider floodplain						
S3-AAP04	Area of standing stones (removed) high ground	Ch. 13+100	0 m	630488, 900843	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction.
	SE slopes high drumlin terrain falling to the Deele River below	Ch. 13+700		630803, 900296			
	N and S banks and lands at River Deele – reference to Camp Hill (King James II encampment and Siege of Derry in the early 17 th century)			631074, 899817			
S3-AAP05	Within area of recorded standing stone sites	Ch. 15+200	0 m	631704, 899275	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction.
	Undulating well drained soils	Ch. 15+400		631912, 899224			
S3-AAP06	N14/N15 to A5 Link – northern and southern banks of the River Finn and adjacent lands (S3-R03). Environs of site of a standing stone on NI Tyrone side of the river (TYR004:003)	Ch. 0+200 Ch. 0+300	0 m	632549, 897083	Direct	Potential Significant	Archaeological geophysical survey, metal detection and testing in advance of construction.
	Carricklee (NI) 16 th century battle site (01/05/1588) between The Earl of Tyrone (Hugh O’Neill) (defeated) and Turlough Luineach O’Neill (victor) (AFM, Vol. 5, p.1867)			632655, 896949			

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Underwater/Riverine Archaeology							
S3-R01	Swilly Burn	Ch. 11+500	0 m	629459, 902062	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.
S3-R02	Deele River	Ch. 14+400	0 m	631116, 899722	Direct	Potential Significant	Assessment of available geotechnical investigation datasets to inform archaeological testing strategies in advance of construction. Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.
S3-R03	River Finn	Ch. 0+300	0 m	632622, 896992	Direct	Potential Significant	Assessment of available geotechnical investigation datasets to inform archaeological testing strategies in advance of construction. Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.
Historic OS mapping sites							
M484	Mill Pond	Ch. 0+000 Side Road	96 m E	623986, 910842	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works.
M485	Flax Mill	Ch. 0+000 Side Road	83 m E	623973, 910824	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							construction stage, if required, as part of LMA for accommodation/temporary works.
M522	Vernacular structure	Ch. 1+800	0 m	625094, 910176	Direct	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M524	Sluice	Ch. 0+000 Side Road	35 m S	625022, 910068	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M525	Well	Ch. 0+300 Side Road	63 m NE	625313, 910231	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M526	Well	Ch. 0+400 Side Road	51 m NE	625401, 910177	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M528	Well	Ch. 0+400 Side Road	49 m SE	625445, 910093	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M529	Flax Mill	Ch. 2+000	0 m	625292, 910073	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M530	Mill Pond	Ch. 2+000	0 m	625182, 910017	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M531	Mill Race	Ch. 2+000	0 m	625256, 910048	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M532	Flax Mill	Ch. 2+000	46 m SW	625151, 910015	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M533	Sluice	Ch. 2+000	0 m	625303, 910079	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M534	Weir	Ch. 2+000	0 m	625305, 910067	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M555	Limekiln	Ch. 0+00 Junction	0 m	625526, 909857	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M559	Limekiln	Ch. 3+400	6 m E	625811, 908842	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M566	Well	Ch. 0+100 Side Road	0 m	625921, 908807	Direct	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M570	Limekiln	Ch. 3+700	32 m NE	625950, 908646	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M571	Milestone	Ch. 0+100 Side Road (online upgrade N14)	0 m	626378, 908509	Direct	Slight	Walkover ground investigation and evaluation/ removal prior to construction
M580	Well	Ch. 0+000 Side Road	0 m	626330, 908002	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M581	Spring	Ch. 4+500	85m NE	626683, 908490	Indirect	Imperceptible	None
M582	Vernacular structure	Ch. 0.+100 Side Road (attenuation pond)	43 m NE	626693, 908449	Indirect	Imperceptible	None
M584	Well	Ch. 4+500	0 m	626669, 908269	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M585	Limekiln	Ch.4+500	0 m	626679, 908268	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M586	Vernacular structure	Ch. 4+500	0 m	626663, 908280	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M587	Limekiln	Ch. 4+700	33 m NE	626876, 908198	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M597	Smithy	Ch. 0+000 Side Road (online N14)	0 m	627077, 907688	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M598	Well	Ch. 0+000 Side Road (online N14)	0 m	627079, 907633	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M599	Vernacular structure	Ch. 0+200 Side Road (online N140)	36 m W	627084, 907619	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M606	Limekiln	Ch. 0+300 Side Road	0 m	627567, 906835	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M607	Milestone	Ch. 6+200	0 m	627504, 906827	Direct	Slight	Walkover ground investigation and evaluation/ removal prior to construction
M610	Well	Ch. 6+600	0 m	627695, 906529	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M611	Vernacular structure	Ch. 6+600	13 m E	627738, 906490	Direct	Not Significant	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M615	Vernacular structure	Ch. 7+100	34 m	628035, 906048	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M616	Flax Mill	Ch. 7+200	0 m	628049, 905998	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M617	Well	Ch. 7+150	29 m W	627886, 905996	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M623	Well	Ch. 0+100	36 m NE	628185, 905805	Indirect	Slight	Inside Proposed Development boundary, provision of exclusion zone at this location during construction stage
M624	Well	Ch. 0+700 Side Road (online)	15 m W	628248, 905796	Indirect	Slight	Inside Proposed Development boundary, provision of exclusion zone at this location during construction stage
M626	Spring	Ch. 0+600 Side Road (online)	0 m	628241, 905435	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M628	Vernacular structure	Ch. 7+800	0 m	628230, 905403	Direct	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M637	Milestone	Ch. 0+150 Side Road	5 m	628364, 904987	Direct	Slight	Walkover ground investigation and evaluation/ removal prior to construction
M642	Vernacular structure	Ch. 9+000	30 m SW	628594, 904292	Indirect	Slight	Inside Proposed Development boundary. Provision of exclusion zone at this location during construction stage
M649	Post Office	Ch. 0+000 (N14 online)	7 m SW	628636, 904163	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M651	Mill Pond	Ch. 9+300	0 m	628775, 904049	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M652	Flax Mill	Ch. 9+350	0 m	628850, 904016	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M653	Well	Ch. 9+300 (side road)	0 m	628751, 904043	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M657	Mill Pond	Ch. 10+400	0 m	629383, 903168	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction
M658	Well	Ch. 0+000 Side Road	10 m E	629758, 903133	Indirect	Not Significant	None
M662	Well	Ch.0+000 Side Road	17 m N	629756, 903148	Indirect	Not Significant	None
M668	Mill Pond	Ch. 0+000 Side Road	0 m	629785, 903091	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M672	Mill Pond	Ch 10+400	0 m	629386, 903143	Direct	Slight	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M673	Sluice	Ch. 10+400	11 m	629414, 903151	Indirect	Slight	Inside Proposed Development boundary. Provision of exclusion zone at this location during construction stage
M674	Sluice	Ch 10+400	0 m	629405, 903129	Direct	Slight	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M675	Limekiln	Ch. 0+461 Side Road	0 m	629530, 902809	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M680	Vernacular structure	Ch. 12+200	31 m E	629859, 901433	Indirect	Slight	Inside Proposed Development boundary. Provision of exclusion zone at this location during construction stage
M687	Well	Ch. 12+900	0 m	630325, 901020	Direct	Not Significant	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M688	Well	Ch. 12+950	19 m	630336, 900950	Indirect	Not Significant	None
M690	Well	Ch. 0+200 Side Road	87 m W	630374, 900694	Indirect	Not Significant	None
M693	Vernacular structures	Ch. 0+150 Side Road	0 m	630636, 900658	Direct	Slight	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M694	Well	Ch. 13+300	23 m SW	630526, 900672	Direct	Slight	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M695	Vernacular structure	Ch. 0+100 Side Road	0 m	630471, 900646	Direct	Slight	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M696	Vernacular structure	Ch. 0+100 Side Road	0 m	630477, 900660	Direct	Slight	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage
M697	Vernacular structure	Ch. 0+100 Side Road	14 m W	630469, 900675	Direct	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M698	Vernacular structure – birthplace of Rev James Porter, Tamnawood	Ch. 0+000 Side Road	3 m E	630462, 900558	Direct	Slight	Provision of exclusion zone at this location during construction stage
M702	Limekiln	Ch. 0+500 Side Road	65 m NE	630608, 900073	Indirect	Not Significant	Inside Proposed Development boundary. Provision of exclusion zone at this location during construction stage
M703	Well	Ch. 0+550 Side Road	21 m S	630673, 900103	Indirect	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M711	Well	Ch. 14+800	0 m	631387, 899393	Direct	Not Significant	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M712	Well	Ch. 14+800	0 m	631362, 899380	Direct	Not Significant	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M713	Well	Ch. 14+800	10 m S	631360, 899367	Direct	Not Significant	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M714	Vernacular structures	Ch. 14+800	0 m	631392, 899367	Direct	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M715	Vernacular structure	Ch. 14+800	0 m	631411, 899402	Direct	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M718	Well	Ch. 15+100	84 m NE	631661, 899401	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works
M719	Well	Ch. 15+000	49 m NE	631581, 899392	Indirect	Slight	Inside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M720	Well	Ch. 15+000	15 m	631482, 899296	Indirect	Not Significant	Inside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage
M724	Vernacular structure	Ch. 15+400	0 m	631903, 899166	Direct	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M725	Vernacular structure	Ch. 15+400	13 m S	631903, 899130	Direct	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage
M735	Quarry	Ch. 16+300	0 m	632384, 898541	Direct	Not Significant	None
M736	Limekiln	Ch. 16+600	68 m W	632340, 898254	Indirect	Not Significant	Outside edge of Proposed Development boundary. Application of exclusion zone, if required, as part of LMA for accommodation /temporary works during construction
M739	Well	Ch. 16+600	76 m W	632346, 898184	Indirect	Not Significant	Outside edge of Proposed Development boundary. Application of exclusion zone if required, as part of LMA for accommodation /temporary works during construction
Townland boundaries							
S3-T01	Raymoghly/ Glebe	Ch. 0+200	0 m	623589, 910669	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T02	Glebe/ Raymoghly	Ch. 0+300	0 m	623712, 910627	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T03	Raymoghly/ Labbadish	Ch. 0+700	0 m	624099, 910550	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T04	Labbadish/ Raymoghly	Ch. 1+100	0 m	624467, 910470	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T05	Raymoghly/ Carrickbally-dooey	Ch. 1+200	0 m	624605, 910429	Direct	Slight	Full measured written, drawn and photographic record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
S3-T06	Carrickbally-dooey/ Carrickbally-dooey Glebe	Ch. 1+800	0 m	625105, 910196 625114, 910241	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T07	Carrickbally-dooey Glebe/ Tullybogly	Ch. 1+800	0 m	625133, 910172 625238, 910173	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T08	Tullybogly/ Drumoghill	Ch. 2+000	0 m	625308, 910069	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T09	Drumoghill/ Drumcarn	Ch. 2+600	0 m	625627, 909615	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction Wade stream survey with metal detection
S3-T10	Drumcarn/ Mondooney Lower	Ch. 3+200	0 m	625693, 909067	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T11	Mondooney Lower/ Mondooney Middle	Ch. 4+100	0 m	626256, 908358	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T12	Mondooney Middle/ Doorabble	Ch. 4+500	0 m	626621, 908259	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T13	Doorabble/ Ballyholey Far	Ch. 4+800	0 m	626941, 908063	Direct	Slight	Full measured written, drawn and photographic record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
S3-T14	Drumatoland/ Sheskinapoll	Ch. 5+900	0 m	627397, 907130	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T15	Sheskinapoll/ Ballyholey Far	Ch. 6+550	0 m	627669, 906538	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T16	Sheskinapoll/ Slievebuck	Ch. 6+550	0 m	627761, 906530	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T17	Sheskinapoll/ Ballyholey Far	Ch. 6+600	0 m	627696, 906487	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
S3-T18	Slievebuck/ Carricka-dawson	Ch. 7+450	0 m	628072, 905735	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
S3-T19	Carrickadawson/ Dromore Big	Ch. 7+850	0 m	628250, 905358	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T20	Dromore Big/ Carnshannagh	Ch. 8+200	0 m	628363, 905080	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction
S3-T21	Dromore Big/ Carnshannagh	Ch. 0+450 side road	0 m	628352, 904952	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T22	Carnshannagh/ Dromore Little	Ch. 9+300 & Ch. 0+500 side road	0 m	628826, 904068 628756, 904067 629052, 903867	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
S3-T23	Drumbeg/ Drumfad	Ch. 9+700	0 m	629059, 903771	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T24	Carnshannagh/ Drumfad	Ch. 0+800 side road	0 m	629212, 903626	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T25	Drumfad/ Feddyglass	Ch. 10+000	0 m	629255, 903460	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T26	Tullyrap/ Feddyglass	Ch. 10+200	0 m	629307, 903355	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T27	Tullyrap/ Feddyglass	Ch. 10+400	0 m	629382, 903146	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T28	Tullyrap/ Broadlea	Ch. 11+050	0 m	629464, 902486	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T29	Broadlea/ Mulnaveagh	Ch. 11+500	0 m	629462, 902064	Direct	Slight	Swilly Burn – no in-river works required metal detection to banks Full measured written, drawn and photographic record prior to construction
S3-T30	Mulnaveagh/ Mass Beg	Ch. 11+600	0 m	629484, 901942 629554, 901864	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T31	Mass Beg/ Sheerclon	Ch. 11+950	0 m	629615, 901635	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
				629642, 901701			
S3-T32	Sheercloon/ Gortin North	Ch. 12+400	0 m	629926, 901307	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T33	Tamnawood/ Ballindrait	Ch. 13+600	0 m	630718, 900408	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T34	Ballindrait/ Cavanacor	Ch.13+900 and Ch. 14+000	0 m	630870, 900157	Direct	Slight	Full measured written, drawn and photographic record prior to construction
				630877, 900084			
S3-T36	Tyleford/ Rossgeir	Ch. 1+450 side road	0 m	631550, 900123	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T37	Cavanacor/ Ballynabreen	Ch. 14+400	0 m	631119, 899714	Direct	Slight	River Deelee – no in-river works required. Metal detection to banks Full measured written, drawn and photographic record prior to construction
S3-T38	Ballynabreen/ Murlough	Ch. 14+900	0 m	631480, 899339	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction
S3-T39	Murlough/ Lifford Common	Ch. 15+150	0 m	631667, 899282	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction Wade stream survey with metal detection
S3-T40	Lifford Common/ Drumboy	Ch. 15+600	0 m	632058, 899161	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction Wade stream survey with metal detection

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
S3-T41	Drumboy/ Lifford Common	Ch. 15+900	0 m	632307, 898889	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T42	Lifford Common/ Townparks	Ch. 16+200	0 m	632384, 898611	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T43	Townparks/ Carricknaslate	Ch. 16+650	0 m	632447, 898172	Direct	Slight	Full measured written, drawn and photographic record of stone walling, prior removal at construction stage
S3-T44	Carricknaslate/ Coneyburrow	Ch. 16+900	0 m	632504, 897913 632464, 898059	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T45	Carricknaslate/ Coneyburrow	Ch. 17+000	0 m	632498, 897814	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T46	Coneyburrow/ Currghalane	Ch. 17+400	0 m	632516, 897472	Direct	Slight	Full measured written, drawn and photographic record prior to construction
S3-T47	Currghalane/ Carricklee (NI)	Ch. 0+300 (N14/N15 to A5 Link)	0 m	632623, 896990	Direct	Slight	River Finn – no in-river works required. Metal detection to banks Full measured written, drawn and photographic record prior to construction

17.4.1.4 Project-wide Construction Stage Mitigation Measures

All construction stage mitigation measures for the Cultural Heritage resource relating to the Proposed Development are set out in Sections 17.4.1.1, 17.4.1.2 and 17.4.1.3. The application of these measures will serve to avoid, reduce or offset predicted construction stage direct or indirect impacts. These mitigation measures shall facilitate the preparation of a robust cultural heritage data capture that enhances existing recorded datasets, and the creation of a new and updated dataset for currently unrecorded/unknown sites/features. Project-wide this shall serve to create a bespoke evidence-based narrative for the Section 1, 2 and 3 Study Areas for public dissemination via recognised and established TII toolsets including online digital Story Maps (use of mapping technology with narrative text, images and multimedia content), printed publications, public presentations/lectures/exhibits and school liaison visits.

17.4.2 Operational Stage Mitigation Measures

17.4.2.1 Section 1 of the Proposed Development

Detailed in Table 17-62 are mitigation measures for operational stage impacts on the Cultural Heritage Resource for Section 1.

Table 17-62: Section 1 Operational Stage Mitigation Measures for the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Recorded archaeological (RMP/SMR) sites							
DG078-003---	Ringfort – Rath	Ch 5+200	104 m SE	614615, 896773	Indirect	Significant	Written and photographic monument setting record prior to construction Strategic landscaping/planting at this area for screening effect Improved non-ground intrusive access provision and informational signage for visiting public
DG078-005---	Church (site of)	Ch 3+400	12 m SE	613389, 895443	Indirect	Significant	Written and photographic monument setting record prior to construction.
DG078-005001-	Holy Well	Ch. 3+400	35 m NW	613340, 895557	Indirect	Significant	Written and photographic monument setting record prior to construction
DG078-005--- & DG078-005001-	Grouping Value – ecclesiastical site	Ch. 3+400	0 m	613358, 895516	Direct	Significant	Heritage information signage and linkage provision to holy well area for visiting public
DG069-024---	Ringfort – unclassified	Ch 250 – northern terminus road junction	160 m NW	615698, 899516	Indirect	Slight	Written and photographic monument setting record prior to construction.
DG077-033---	Souterrain	Ch. 271 – Link Rd junction area	171 m SE	611387, 893329	Indirect	Imperceptible	None
DG078-004---	Ringfort - cashel	Ch. 150 Junction area with N13	166 m SE	615539, 896874	Indirect	Imperceptible	None

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
DG078-018---	Ringfort - unclassified	Ch 00 Link Rd. junction area with N15	135 m W	616053, 895068	Indirect	Imperceptible	None
Recorded architectural heritage (RPS/NIAH) sites							
RPS/NIAH 40907834	Vernacular long-house	Ch. 4+400	136 m NW	613895, 896285	Indirect	Significant	Written and photographic building setting record prior to construction Strategic landscaping/ planting at this area for screening effect
NIAH 40907720	Outbuilding	Ch. 1+900	30 m NW	612106, 894673	Indirect	Significant	Written and photographic building setting record prior to construction Strategic landscaping/ planting at this area for screening effect
RPS/NIAH 40907836	Workhouse/ Famine Graveyard	Ch. 3+400 N15 Link at Mullandrait	307 m W	616012, 895514	Indirect	Moderate	Written and photographic structure setting record prior to construction Strategic landscaping/ planting at this area for screening effect
RPS/NIAH 40906908	'Steeple Tower' Mullaghagarry	Ch. 1+900 N15 Link Rd (Stranorlar)	1.5 km NE	617457, 897935	Indirect	Moderate	Written and photographic building setting record prior to construction
RPS/NIAH 40838001	Memorial Monument	Ch. 3+350	531 m SE	613636, 894999	Indirect	Slight	Written and photographic structure setting record prior to construction
RPS/NIAH 40838047	Former Coach House	Ch. 3+300	668 m SE	613504, 894792	Indirect	Slight	Written and photographic building setting record prior to construction
NIAH 40907708	Corn and Sawmills	Ch. 2+600	135 m NW	612476, 895211	Indirect	Slight	Written and photographic building setting record prior to construction
NIAH DG0047	Drumboe Demesne	Ch. 3+050 – Ch. 3+900	0 m	613666, 895276 (approx. centre-point)	Direct	Slight	None

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
NIAH DG0144	Tircallen Demesne	Ch. 1+850 – Ch. 2+100 N15 Link Road (Stranorlar)	0 m	617099, 897743 (approx. centre-point)	Indirect	Not Significant	None
Identified cultural heritage LiDAR assessment and field survey sites							
L115-2 / S1-BH02	Building	Ch. 4+400	35 m NW	613978, 896223	Indirect	Significant	Written and photographic building setting record prior to construction Strategic landscaping/ planting at this area for screening effect
L105-1	Enclosure Possible	Ch. 200 Link Rd	62 m NW	614954, 898345	Indirect	Moderate	Written and photographic monument setting record prior to construction
L110-4 / M72	Lime Kiln	Ch. 150 Side Rd	20 m SW	615637, 897141	Indirect	Moderate	Written and photographic building setting record prior to construction
L123-6 / M166 / Building F-1-13		Ch. 3+300	52 m S	613310, 895374	Indirect	Moderate	Written and photographic building setting record prior to construction
F-1-01	Pair of ruined limekilns	Ch. 00 (S terminus)	14 m	610111, 892699	Indirect	Moderate	Written and photographic building setting record prior to construction
Logue's Bridge	Logue's Bridge	Ch. 2+400	61 m W/NW	612413, 895026	Indirect	Moderate	Written and photographic structure setting record prior to construction
F-1-06	River access path and retaining wall on N bank of river	Ch. 2+400	57 m W/NW	612426, 895039	Indirect	Moderate	Written and photographic structure setting record prior to construction
F-1-12	Walled avenue	Ch. 3+300	40 m SE	613334, 895383	Indirect	Moderate	Written and photographic structure setting record prior to construction
L102-1	Barrow Possible	Ch. 572 Link Rd Tie-in at N13 N terminus	114 m NE	616120, 900387	Indirect	Slight	Written and photographic monument setting record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
L105-3	Building	Ch. 200 Link Rd	75 m SE	614957, 898099	Indirect	Slight	Written and photographic building setting record prior to construction
L106-3 / M46	Farmstead	Ch. 1+150 Link Rd	91 m NE	615757, 897990	Indirect	Slight	Written and photographic building setting record prior to construction
L123-2 / S1-AP01	Enclosure Possible	Ch 00 Side Rd	88 m W	613515, 895915	Indirect	Slight	Written and photographic monument setting record prior to construction
L129-1	Enclosure possible	Ch. 350 Link Rd	46m W	611761, 894735	Indirect	Slight	Written and photographic setting record prior to construction
L129-2	Building	Ch. 200 Link Rd	103 m W	611758, 894901	Indirect	Slight	Written and photographic building setting record prior to construction
F-1-05	Ruined lime kiln	Ch. 1+550	45 m N	612940, 894368	Indirect	Slight	Written and photographic structure setting record prior to construction
F-1-21	Lime kiln	Ch. 00 Side Rd	145 m SW	616154, 895993	Indirect	Slight	Written and photographic structure setting record prior to construction
M211	School house/ Dispensary	Ch. 0 Online Upgrade	0 m	612063, 894343	Indirect	Slight	Written and photographic building setting record prior to construction
M303	Vernacular structure	Ch. 0 Online Upgrade	0 m	610264, 892747	Indirect	Slight	Written and photographic building setting record prior to construction
L101-2	Lime Kiln	Ch. 500 Link Rd Tie-in at N13 N terminus	76 m W	615930, 900238	Indirect	Imperceptible	None
L141-2	Embankment	Ch. 00 Online tie-in S terminus	23 m SE	610302, 892767	Indirect	Imperceptible	None

17.4.2.2 Section 2 of the Proposed Development

Detailed in Table 17-63 are mitigation measures for operational stage impacts on the Cultural Heritage Resource for Section 2.

Table 17-63: Section 2 Operational Stage Mitigation Measures for the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
DG053-059---	Possible Enclosure	Ch. 0+950 (Junction Arm)	0 m	620852, 911349	Direct	Moderate	Pending further test investigations and if found to be archaeological, a written and photographic archaeological setting record of the site to be undertaken prior to construction.
F-2-05	Dromore House	Ch. 0+550	25 m	620009, 910748	Indirect	Moderate	Written and photographic building setting record prior to construction
40905394	Railway Bridge	Ch. 2+100	85 m W	619984, 910480	Indirect	Moderate	Written and photographic building setting record prior to construction
S2-BH04	Disused railway line	Ch. 2+100	0 m	620134, 910487	Indirect	Slight	Written and photographic built heritage setting record prior to construction
M451	Vernacular structure	Ch. 1000 Link Rd	46 m SW	619727, 908555	Indirect	Slight	Written and photographic building setting record prior to construction.

17.4.2.3 Section 3 of the Proposed Development

Detailed in Table 17-64 are mitigation measures for operational stage impacts on the Cultural Heritage Resource for Section 3.

Table 17-64: Section 3 Operational Stage Mitigation Measures for the Cultural Heritage Resource

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
Recorded archaeological RMP/SMR sites							
DG054-038---	Pluck Standing stone	Ch. 00 Access Rd	254 m SW	623308, 910274	Indirect	Moderate	Written and photographic monument setting record prior to construction
DG070-048----	Standing stone (site of)	Ch. 15+100	12 m N ZoN within alignment footprint	631630, 899335	Indirect	Moderate	Inside Proposed Development boundary. Targeted test excavation of identified geophysical features/anomalies within overall Proposed Development boundary. If required and feasible, preservation in situ or preservation by record
DG070-082----	Souterrain	Ch. 0+200 Junction Link	12 m S ZoN not allocated	632263, 897206	Indirect	Moderate	Written and photographic monument setting record prior to construction
DG054-032--- / NIAH Church 40827009		Ch 00 Access Rd	350 m NE	624171, 911045	Indirect	Slight	Written and photographic monument setting record prior to construction
DG054-032001-	Graveyard	Ch 00 Access Rd	350 m NE	624171, 911045	Indirect	Slight	Written and photographic monument setting record prior to construction
DG054-040---	Standing stone	Ch. 1+500	169 m SW	624718, 910165	Indirect	Slight	Written and photographic monument setting record prior to construction
DG070-074001-	Hillfort	Ch 17+000	2.5 km W	629887, 897450	Indirect	Not Significant	None
DG070-074002-	Passage tomb	Ch 17+000	2.5 km W	629887, 897450	Indirect	Not Significant	None
Recorded architectural heritage (RPS/NIAH) sites							
40835028	Croaghan House	Ch. 16+800	66 m W	632331, 897998	Indirect	Very Significant	Written and photographic building setting record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
							Strategic landscaping/planting at this area for screening effect
RPS 40907026 / NIAH 40834001	Cavanacor House (incl gate-lodge and entrances)	Ch. 1+300 (Side Rd)	178 m N	631322, 900236	Indirect	Significant	Written and photographic building setting record prior to construction Strategic landscaping/planting at this area for screening effect
40827011 / M509, M482 & M483, M498	Manse	Ch. 0+200	53 m NE	623692, 910766	Indirect	Significant	Written and photographic building setting record prior to construction Strategic landscaping/planting at this area for screening effect
40834006	Outbuilding	Ch. 14+600	17 m NE	631361, 899575	Indirect	Significant	Written and photographic building setting record prior to construction Strategic landscaping/planting at this area for screening effect
40906245 / M565	Outbuilding	Ch. 3+500	31 m NE	625893, 908742	Indirect	Significant	Written and photographic building setting record prior to construction Strategic landscaping/planting at this area for screening effect
RPS 40907020/ NIAH 40834003	St Patrick's Church	Ch. 0+350 Link	44 m W	631963, 899456	Indirect	Significant	Written and photographic building setting record prior to construction
RPS 40907020/ NIAH 40834004	St Patrick's Bell Tower	Ch. 0+350	20 m E	631914, 899459	Indirect	Significant	Written and photographic building setting record prior to construction
40834002	Manse	Ch. 0+350 Link	39 m E	631818, 899517	Indirect	Moderate	Written and photographic building setting record prior to construction
HB10/08/007	Castletown House	Ch. 0+300	446 m NE	633011, 897227	Indirect	Moderate	Written and photographic building setting record prior to construction
HB10/08/004C	Carricklee Gate Lodge	Ch. 0+300	196 m S	632659, 896791	Indirect	Moderate	Written and photographic building setting record prior to construction
40834002	Manse	Ch. 15+200	208 m N	631818, 899517	Indirect	Moderate	Written and photographic building setting record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
40834005	Ballindrait Windmill	Ch. 15+100	176 m S	631546, 899064	Indirect	Moderate	Written and photographic building setting record prior to construction
40834017	Goods Shed	Ch. 14+100	58 m S	630815, 900024	Indirect	Moderate	Written and photographic building setting record prior to construction
40834011	Station Masters House/ Building Misc	Ch. 14+000	15 m W	630864, 900013	Indirect	Moderate	Written and photographic building setting record prior to construction
40906262	House	Ch. 9+200	7 m SW	628672, 904128	Indirect	Moderate	Written and photographic building setting record prior to construction
HB10/08/004B	Carricklee Stables	Ch. 0+300	540 m SW	632413, 896481	Indirect	Not Significant/ Slight	None
40906216	Building Misc	Ch. 6+000	140 m NW	627148, 907006	Indirect	Imperceptible	None
Identified cultural heritage LiDAR assessment and field survey sites							
L310-1	Former railway line	Ch. 2+200	0 m	625422, 909973	Direct	Slight	Written and photographic built heritage setting record prior to construction
L338-4	Flax Mill	Ch. 1+567 (Side Rd)	37 m S	629759, 903076	Indirect	Slight	Written and photographic structure setting record prior to construction
L338-5	Mill pond	Ch. 1+567 (Side Rd)	66 m SE	629799, 903082	Indirect	Slight	Written and photographic structure setting record prior to construction
L345-3	Former railway line	Ch. 14+100 and Ch. 0+300 (Side Rd)	0 m	630581, 900102	Direct	Slight	Written and photographic structure setting record prior to construction
L349-2 / M689	Building	Ch. 13+100	112 m SE	630278, 900818	Indirect	Slight	Written and photographic structure setting record prior to construction
F-3-02	Carrickbally-dooley farmstead and laneway	Ch. 1+500	0 m	624856, 910326	Indirect	Slight	Written and photographic setting record for farmstead at south prior to construction
F-3-09 / M614	House	Ch. 6+900	67 m E	627941, 906201	Indirect	Slight	Written and photographic building setting record prior to construction

Site Ref.	Type	Approx. Chainage	Approx. Distance from Edge of Proposed Alignment	ITM	Impact Type	Significance of Effect	Mitigation Measures
M532	Flax Mill	Ch. 2+000	46 m SW	625151, 910015	Indirect	Slight	Written and photographic building setting record prior to construction
M582	Vernacular structure	Ch. 0.+100 Side Road (attenuation pond)	43 m NE	626693, 908449	Indirect	Slight	Written and photographic building setting record prior to construction
M593	Vernacular structure	Ch. 4+700	83 m SW	626716, 908099	Indirect	Slight	Written and photographic building setting record prior to construction
M596	Vernacular structure	Ch. 5+100	126 m SW	626931, 907832	Indirect	Slight	Written and photographic building setting record prior to construction
M615	Vernacular structure	Ch. 7+100	80 m NE	628035, 906048	Indirect	Slight	Written and photographic building setting record prior to construction
M616	Flax Mill	Ch. 7+200	65 m E	628049, 905988	Indirect	Slight	Written and photographic building setting record prior to construction
M647	Vernacular structure	Ch. 0+300 Side Road	94 m W	628192, 905096	Indirect	Slight	Written and photographic building setting record prior to construction
M648	Saw / Flax Mill	Ch. 9+200	40 m SW	628660, 904094	Indirect	Slight	Written and photographic building setting record prior to construction
M666	Flax Mill	Ch. 0+000 Side Road	39 m S	629752, 903077	Indirect	Slight	Written and photographic building setting record prior to construction
M670	Mill Race	Ch. 1+400 Side Road	50 m S	629614, 903084	Indirect	Slight	Written and photographic and setting record prior to construction

17.4.2.4 Project-wide Operational Stage Mitigation Measures

All operational stage mitigation measures for the Cultural Heritage resource relating to the Proposed Development are set out in Sections 17.4.2.1, 17.4.2.2 and 17.4.2.3. The application of these measures will serve to reduce or offset predicted operational stage direct or indirect impacts. The measures shall facilitate the preparation of a robust cultural heritage data capture that enhances existing recorded datasets, and the creation of improved visitor amenity access, heritage information signage and linkage provision to area for visiting public. Project-wide this shall serve to offer enhancement opportunities to proposed overall county-level strategic planning for the Drumboe Woods area in Section 1, as well as offering enhanced levels of public awareness and appreciation of recorded sites within the Study Area via informational signage and improved public site accessibility.

17.4.3 Predicted Residual Impacts

Residual effects are defined as “the final predicted or intended effects which occur after the proposed mitigation measures have been implemented” (EPA 2022, 62). In cases where it is not possible to fully mitigate adverse effects that cannot be reasonably avoided, residual effects on the Cultural Heritage resource have been identified.

All construction stage impacts detailed in Section 17.3.3 are considered either temporary or short-term (<one year/one-seven years) reflecting indirect impacts associated with the construction period (e.g. noise, visual amenity distraction, heavy machinery movements etc.). Such temporary/short-term impacts cannot be fully mitigated at construction stage (save for written and photographic setting records prior to construction) and will result in temporary residual significance of effect on the heritage receptor. However, mitigation of any permanent negative impacts (>60 years) on the Cultural Heritage Resource at operational stage (see Section 17.3.4), shall be carefully planned and undertaken at construction stage (by means of landscaping, planting or screening strategies) to allow for required timeframes for such measures to be effectively established. A monitoring programme shall be implemented to ensure that any failures are detected and replaced (see Chapter 18: Landscape and Visual).

For construction stage impacts that are permanent in duration (>60 years) reflecting direct impacts and complete removal of a cultural heritage receptor during the construction stage period (including potential presently unknown archaeological sites), mitigation measures can reduce the significance of effect by means of preservation *in situ* and/or preservation by record. Nonetheless any physical loss of the Cultural Heritage receptor is noted as a residual effect both in the context of the heritage site itself as well as a loss to the overall Cultural Heritage resource on a local, regional and/or national level.

The mitigatory measures adopted at construction and operational stages shall be agreed with relevant statutory authorities (National Monuments Service) and the TII Project Archaeologist and shall be carried out under Ministerial Direction (DHLG&H) (currently Section 14A of the National Monuments Act 1930 (as amended) or per other licencing requirements as may subsequently be commenced under the HAHMP Act 2023).

17.4.3.1 Section 1 of the Proposed Development

It is anticipated that following the application of mitigation measures at construction and operational stage there will be two significant/moderate and five moderate predicted residual impacts on the Cultural Heritage resource (see Table 17-65). It is noted that there is a total of 83 No. instances of No Predicted residual effect.

In summary, there are a total of 149 No. Predicted Residual Effects. Total quantities of Predicted Residual Effects for Section 1 are:

- 0 Profound Negative
- 0 Very Significant Negative
- 0 Significant Negative
- 2 No. Significant/Moderate Negative
- 11 No. Potential Significant

- 5 No. Moderate Negative
- 16 No. Slight Negative
- 23 No. Not Significant
- 92 No. Imperceptible

Dunwiley Fort (RMP DG078-003---) is a well preserved bivallate ringfort sited at an elevated position within the local topography at Backlees/Dunwiley. Post-mitigation measures that have incorporated exclusion zones, strategic landscaping/planting and enhanced visitor interpretation and non-ground intrusive access to reduce and offset construction and operational stage impacts are considered to result in a predicted Significant/Moderate residual effect on the setting of the site.

The holy well site at Holywell Woods, Drumboe Lower (SMR DG078-005001-) is a modest arrangement of loose stone masonry within woodland at a small natural stream, on the edge (outside) of the Proposed Development boundary. The site is venerated and offers visitor amenity access via Holywell Woods. Post-mitigation measures that have incorporated exclusion zones, alternate groundwater provision and a written and photographic record of setting to reduce and offset construction and operational stage impacts are considered to result in a predicted Significant/Moderate residual effect on the cultural heritage amenity value of the site.

The grouping value of the holy well (SMR DG078-005001-) and probable associated church/abbey (site of) (RMP DG078-005---) at Drumboe Lower shall be directly and significantly impacted by the Proposed Development. Post-mitigation measures including provision for improved visitor amenity heritage information to reduce and offset operational stage impacts are considered to result in a predicted moderate residual effect on the cultural heritage grouping value of the sites. Residual moderate effect on the setting/place of the levelled site of the former church/abbey RMP DG078-005-- itself is also noted.

There are three structures located within the Section 1 Study Area that are indirectly and significantly impacted by the Proposed Development: a long-house (RPS/NIAH 40907834) and outbuilding (L115-2/S1-BH02) at Drumboe Upper, and an outbuilding at Cappry (NIAH 40907720). Post-mitigation measures that have incorporated a written and photographic building setting record prior to construction, baseline inspection records together with regular built heritage site monitoring to ensure structural integrity and strategic landscaping/planting for operational stage is considered to result in a predicted moderate residual effect on the buildings.

A total of six AAPs (S1-AAP01, S1-AAP02, and S1-AAP04 to S1-AAP07) as well as three riverine crossings (S1-R01, S1-R02 and S1-R03) have also been noted throughout the Section 1 Study Area that have potential to retain presently undiscovered sub-surface archaeological features, deposits and/or artefacts. Construction stage related works for the Proposed Development within these areas are considered potential direct significant impacts in this regard. In the event of new discoveries and application of preservation in situ and/or preservation by record best practice principals in consultation with statutory bodies, the residual effect is predicted as *potential* moderate.

There is also direct potential significant impact on two possible barrow sites (L110-1 & L129-5) and subject to post-mitigation findings via archaeological investigations at construction stage, there is a provisional predicted *potential* moderate residual effect identified in this regard.

Table 17-65: Section 1 Predicted Residual Impacts on the Cultural Heritage Resource

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
Recorded archaeological RMP/SMR sites							
DG078-003---	Ringfort – Rath	614615, 896773	Indirect	Significant	Outside Proposed Development boundary. Provision of exclusion zone at this location during construction stage. Visitor access provision to this site is being provided immediately adjacent, as part of operational stage mitigation which will be non-ground intrusive in nature, using non-ground reinforced surfacing materials. Prior to installation of access provisions at construction stage (with licenced archaeological oversight), a programme of geophysical survey (and testing if required) will be carried out at advance stage works in order to adequately inform the access arrangement provisions, subject to statutory consent.	Written and photographic monument setting record prior to construction Strategic landscaping/planting along proposed alignment at this area for screening effect Improved (non-ground intrusive) access and information provision for visiting public.	Significant/Moderate
DG078-005001-	Holy Well	613340, 895557	Indirect	Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works together with regular archaeological site inspection/monitoring to ensure integrity of designed soil stability and water source measures, and ground vibration monitors, if required	Written and photographic monument setting record prior to construction	Significant/Moderate
DG078-005---	Church (site of)	613389, 895443	Indirect	Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works together with regular archaeological sites/ inspection/ monitoring to ensure integrity of designed soil stability measures and ground vibration monitors, if required	Written and photographic monument setting record prior to construction	Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
DG078-005---& DG078-005001-	Grouping Value – ecclesiastical site	613358, 895516	Direct	Significant	None	Heritage information signage and linkage provision to holy well area for visiting public	Moderate
DG069-024---	Ringfort – unclassified	615698, 899516	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic monument setting record prior to construction.	Not Significant
DG069-023---	Bullaun Stone	615738, 899723	Indirect	Not Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	None predicted
DG069-028---	Ringfort – unclassified	615779, 898309	Indirect	Not Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	None predicted
DG077-033---	Souterrain	611387, 893329	Indirect	Imperceptible	None	None	None predicted
DG078-004---	Ringfort - cashel	615539, 896874	Indirect	Imperceptible	None	None	None predicted
DG078-018---	Ringfort - unclassified	616053, 895068	Indirect	Imperceptible	None	None	None predicted
Recorded architectural heritage (RPS/NIAH) sites							
RPS/ NIAH 40907834	Vernacular long-house	613895, 896285	Indirect	Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation /temporary works	Written and photographic building setting record prior to construction Strategic landscaping/planting along proposed alignment at this area for screening effect	Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
NIAH 40907720	Outbuilding	612106, 894673	Indirect	Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works Baseline inspection record together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.	Written and photographic building setting record prior to construction Strategic landscaping/planting along proposed alignment at this area for screening effect	Moderate
RPS/ NIAH 40907836	Workhouse/ Famine Graveyard	616012, 895514	Indirect	Moderate	None	Written and photographic structure setting record prior to construction Strategic landscaping/planting along proposed alignment at this area for screening effect	Slight
RPS/ NIAH 40906908	'Steeple Tower' Mullaghagarry	617457, 897935	Indirect	Moderate	None	Written and photographic building setting record prior to construction	Slight
RPS/ NIAH 40838001	Memorial Monument	613636, 894999	Indirect	Slight	None	Written and photographic structure setting record prior to construction	Not Significant
RPS/ NIAH 40838047	Former Coach House	613504, 894792	Indirect	Slight	None	Written and photographic building setting record prior to construction	Not Significant
NIAH 40907708	Corn and Sawmills	612476, 895211	Indirect	Slight	None	Written and photographic building setting record prior to construction	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
NIAH DG0047	Drumboe Demesne	613666, 895276 (approx. centre-point)	Direct	Slight	Written and photographic demesne setting record prior to construction	None	Not Significant
NIAH DG0144	Tircallen Demesne	617099, 897743 (approx. centre-point)	Direct	Not Significant	Written and photographic demesne setting record prior to construction	None	Imperceptible
Identified cultural heritage LiDAR assessment and field survey sites							
L115-2 / S1- BH02	Building	613978, 896223	Indirect	Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic building setting record prior to construction Strategic landscaping/planting along proposed alignment at this area for screening effect	Moderate
L106-2 / M40	Lime Kiln	615349, 898078	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
L110-3 / M68	Lime Kiln	615720, 897318	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
L110-4 / M72	Lime Kiln	615637, 897141	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	Written and photographic building setting record prior to construction	Slight

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
L110-5 / M71	Building	615818, 897226	Direct	Moderate	Archaeological testing in advance of construction	None	Slight
L123-6 / M166 / F-1-13	Building	613310, 895374	Indirect	Moderate	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Slight
L138-11	Building	611168, 893390	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
L102-1	Barrow Possible	616120, 900387	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant
L105-1	Enclosure Possible	614954, 898345	Indirect	Moderate	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant
L105-3	Building	614957, 898099	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic building setting record prior to construction	Not Significant
L106-3 / M46	Farmstead	615757, 897990	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic building setting record prior to construction	Not significant
L121-1 / M189	Railway	612015, 895069	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
L122-5 / F-1-07	Mill race	612507, 895065	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
L123-2 / S1-AP01	Enclosure Possible	613515, 895915	Indirect	Slight	None	Written and photographic monument setting record prior to construction	Not Significant
L129-2	Building	611758, 894901	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant
L105-2	Pit	614979, 898402	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
L129-1	Enclosure possible	611761, 894735	Indirect	Not Significant	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works	Written and photographic setting record prior to construction	Imperceptible
L101-2	Lime Kiln	615930, 900238	Indirect	Imperceptible	None	None	None predicted
L118-3	Quarry pit possible	616385, 896077	Direct	Not Significant	None	None	None predicted
L141-2	Embankment	610302, 892767	Indirect	Imperceptible	None	None	None predicted
L109-1	Non-archaeological	614875, 897727	n/a	n/a	n/a	n/a	n/a
L115-1	Non-archaeological	613886, 896164	n/a	n/a	n/a	n/a	n/a
L123-5	Enclosure Possible^	613430, 895556	n/a	n/a	n/a	n/a	n/a

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
L110-1	Barrow Possible	615382, 897813	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
L129-5	Barrow possible	611913, 894941	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
Logue's Bridge	Logue's Bridge	612413, 895026	Indirect	Moderate	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic building setting record prior to construction	Slight
F-1-06	River access path and retaining wall on N bank of river	612426, 895039	Direct	Moderate	Full measured written, drawn and photographic record prior to construction	Written and photographic building setting record prior to construction	Slight
F-1-08	Bridge	613025, 895320	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
F-1-11	Stone field wall	613137, 895414	Direct	Slight	Full measured written, drawn and photographic record prior to construction Written and photographic structure setting record prior to construction Salvage of stone during removal for local re-building use	None	Slight
F-1-12	Walled avenue	613334, 895383	Indirect	Moderate	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic building setting record prior to construction	Slight
F-1-14	Stone field wall	613332, 895508	Direct	Slight	Full measured written, drawn and photographic record prior to construction Written and photographic structure setting record prior to construction	None	Slight

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
					Salvage of stone during removal for local re-building using the art of local dry stone wall construction techniques		
F-1-15	Cross-inscribed pillar	613331, 895483	Direct	Moderate	Written and photographic structure measures survey and setting record prior to construction Careful removal and reinstatement at adjacent laneway area to south, subject to landowner agreement, prior to construction	None	Slight
F-1-16	Stone field wall	613476, 895551	Direct	Slight	Full measured written, drawn and photographic record prior to construction Written and photographic structure setting record prior to construction Salvage of stone during removal for local re-building use	None	Slight
F-1-19	Denuded stone wall	614858, 897683	Indirect	Moderate	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Not Significant
F-1-22	E-W bank and ditch	616517, 896477	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
F-1-01	Pair of ruined limekilns	610111, 892699	Indirect	Moderate	Application of exclusion zone during construction stage works	Written and photographic building setting record prior to construction	Imperceptible
F-1-02	Roadway	611870, 894356	Direct	Slight	Written and photographic structure setting record together with topographic survey record prior to construction	None	Imperceptible
F-1-03	Roadway	611818, 894340	Direct	Slight	Written and photographic structure setting record together with topographic survey record prior to construction	None	Imperceptible
DLR(S&GB) Railway line	Railway line	612409, 894923	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
F-1-04	Roadway	611905, 894734	Direct	Slight	Written and photographic structure setting record together with topographic survey record prior to construction	None	Imperceptible
F-1-05	Ruined lime kiln	612940, 894368	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	Written and photographic building setting record prior to construction	Imperceptible
F-1-10	Infilled stream (flagstone cover)	613050, 895441	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
F-1-17	Raised sub-circular area	614570, 897121	Indirect	Moderate	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
F-1-21	Lime kiln	616154, 895993	Indirect	Slight	None	Written and photographic structure setting record prior to construction	Imperceptible
Areas of archaeological potential							
S1-AAP01	Burn Durnett River lowlands and area SW of Ballybofey, incl. Cappry & Dooish at lowlands	611007, 893510 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
S1-AAP02	SW & NE banks of River Finn incl river crossing and Drumboe Lower, Ironworks, Magherapaste	613065, 895384 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
S1-AAP04	Southern slopes of ridge, Dunwiley	614744, 897117 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S1-AAP05	Elevated field area adjacent stream/townland boundary of Treanamullin/Mullandrait Wet, low-lying areas, incl north of Cooladawson Road	616466, 895508 616463, 895925 616525, 896542 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
S1-AAP06	Wet area - south banks of Cloghroe River. N of Stranorlar & River Finn, rising ground at Lough Alaun to Dunwiley.	616050, 892927 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
S1-AAP07	Immediately adjacent the Burn Daurnett river network	611031, 893231 (indicative point)	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
Underwater/Riverine Archaeology							
S1-R01	River Finn	612483, 895000	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.	None	Potential Moderate
S1-R02	Backlees Stream	613886, 895997	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.	None	Potential Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S1-R03	Cloghroe River	616018, 899981	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.	None	Potential Moderate
Historic OS mapping sites							
M35	Formal garden	615369, 898420	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M36	Limekiln	614914, 898165	Indirect	Slight	Application of exclusion zone during construction stage works	None	Not Significant
M52	Well	615239, 897927	Indirect	Slight	Application of exclusion zone during construction stage works	None	Not Significant
M66	Limekiln	614928, 897137	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Not Significant
M84	Limekiln	614336, 896042	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Not Significant
M132	Railway line	616424, 895118	Direct	Slight	Measured written, drawn and photographic record prior to construction	None	Not Significant
M137	Limekiln	614123, 896597	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Not Significant
M148	Limekiln	613932, 896162	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M149	Limekiln	613785, 896162	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Not Significant
M163	Well	613364, 895598	Indirect	Slight	Application of exclusion zone during construction stage works	None	Not Significant
M34	Vernacular structure	615108, 898317	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M37	Vernacular structure	615476, 898208	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M53	Vernacular structure	615220, 897972	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M69	Well	615802, 897262	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M83	Limekiln	614319, 896138	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M98	Vernacular structure	616449, 896163	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M99	Vernacular structure	616403, 896109	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M131	Limekiln	616195, 895133	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M134	Limekiln	614472, 896975	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M146	Well	614034, 896223	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M150	Limekiln	614146, 896140	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M154	Well	613686, 895894	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M155	Well	613857, 896009	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M159	Limekiln	613668, 895811	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M160	Vernacular structure	613686, 895851	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M161	Well	613691, 895895	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M165	Well	613031, 895309	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M180	Limekiln	611861, 895022	Indirect	Slight	Application of exclusion zone during construction stage works	None	Imperceptible
M181	Limekiln	611899, 895069	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M182	Well & Vernacular Structures	611903, 895085	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M192	Limekiln	612173, 894776	Indirect	Slight	Application of exclusion zone during construction stage works	None	Imperceptible
M203	Limekiln	612168, 894447	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M207	Limekiln	612140, 894539	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M208	Limekiln	612077, 894395	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M209	Limekiln	611878, 894360	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M211	School house/ Dispensary	612063, 894343	Indirect	Slight	Written and photographic building setting record prior to construction	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M215	Limekiln	611776, 894636	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works	None	Imperceptible
M221	Well	612132, 894548	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M222	Spring	612131, 894481	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M223	Limekiln	612140, 894539	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M224	Limekiln	611772, 894651	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M236	Limekiln	611413, 894322	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M240	Spring	611585, 894186	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M242	Limekiln	611529, 894215	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M243	Vernacular structure	611420, 894138	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M244	Vernacular structure	611512, 894200	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M245	Vernacular structure	611667, 894282	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
					during construction stage, if required as part of LMA for accommodation/ temporary works		
M246	Limekiln	611039, 893768	Indirect	Slight	Application of exclusion zone during construction stage works	None	Imperceptible
M249	Vernacular structure	611243, 893727	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation /temporary works	None	Imperceptible
M250	Vernacular structure	611179, 893895	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M252	Vernacular structure	611164, 893622	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M264	Limekiln	611209, 893583	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M265	Limekiln	611146, 893494	Indirect	Slight	Application of exclusion zone during construction stage works	None	Imperceptible
M266	Limekiln	611038, 893518	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M267	Limekiln	611075, 893478	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M271	Limekiln	611082, 893367	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M272	Limekiln	611022, 893338	Indirect	Slight	Application of exclusion zone during construction stage works	None	Imperceptible
M284	Vernacular structure	610328, 892820	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M286	Ford	611158, 893260	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M300	Vernacular structure	610330, 892823	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M303	Vernacular structure	610264, 892747	Indirect	Slight	Application of exclusion zone during construction stage works	Written and photographic building setting record prior to construction	Imperceptible
M747	Former flax dam	610032, 892757	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
Townland boundaries							
S1-T01	Meencargagh/ Dooish	610287, 892804	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T02	Dooish/ Cappry	610872, 893341 610938, 893209	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T03	Cappry/ Ballybofey	612811, 894284	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Imperceptible
S1-T04	Cappry/ Ironworks	612482, 895001	Direct	Slight	Written and photographic River Finn boundary setting record prior to construction	None	Imperceptible
S1-T05	Ironworks/ Drumboe Lower	612508, 895026	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S1-T06	Drumboe Lower/ Magherapaste	613761, 895808	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T07	Magherapaste/ Drumboe Upper	613659, 895889 613717, 895896 613845, 895931	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T08	Drumboe Upper/ Backlees	614252, 896575	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record together with test archaeological section trench and evaluation prior to construction	None	Imperceptible
S1-T08a	Drumboe Upper/Dunwiley	614248, 896187	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record together with test archaeological section trench and evaluation prior to construction	None	Imperceptible
S1-T09	Backlees/ Dunwiley	614291, 896559 614668, 897024	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Imperceptible
S1-T10	Dunwiley/ Teevickmoy	615139, 897650	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Imperceptible
S1-T10a	Teevickmoy/ Tircallan	616025, 897948	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S1-T11	Teevickmoy/ Meenavoy	615925, 899542 616082, 899728	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Imperceptible
S1-T12	Teevickmoy/ Magheracorrán & Parish Boundary: Stranorlar/Convoy	616103, 899707 616250, 899457	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T13	Meenavoy/ Callan	616020, 899974	Direct	Slight	Written and photographic Cloghroe River boundary setting record prior to construction	None	Imperceptible
S1-T14	Lettermackenny/ Teevickmoy	614792, 898186	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T15	Teevickmoy/ Dunwiley	615340, 897685	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T16	Dunwiley/ Knockfair	615861, 897221	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T17	Knockfair/ Tircallen	616144, 897020	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T18	Knockfair/ Mullaghagarry	616262, 896906 616319, 896857	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Imperceptible
S1-T19	Knockfair/ Castlebane	616482, 896682	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S1-T19a	Castlebane/ Treanamullin	616671, 896205	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T20	Castlebane/ Mullandrait	616363, 895772	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T21	Mullandrait/ Treanamullin	616604, 895180	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S1-T22	Teevickmoy/ Tircallen	616024, 897949	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Imperceptible

17.4.3.2 Section 2 of the Proposed Development

It is anticipated that following the application of mitigation measures at construction and operational stage there will be no significant predicted residual impacts on the Cultural Heritage resource (see Table 17-66). It is noted that there is a total of 78 No. instances of No Predicted residual effect.

In summary, there are a total of 64 No. Predicted Residual Effects. Total quantities of Predicted Residual Effects for Section 2 are:

- 0 Profound Negative
- 0 Very Significant Negative
- 0 Significant Negative
- 0 Moderate Negative
- 9 No. Potential Moderate
- 7 No. Slight Negative
- 4 No. Not Significant
- 2 No. Potential Not Significant
- 42 No. Imperceptible

A recently recorded enclosure site will be subject to direct impact (in part) by the Proposed Development. This site was archaeologically tested and found to be non-archaeological. It will require further investigations at construction stage and should archaeological features be apparent, it will require preservation by record (subject to statutory approval) as a result. In this event, archaeological excavation is likely to comprise circa 33% of the apparent site extent, with the remainder outside the Proposed Development boundary line to be preserved in situ. Although the site is not well preserved, surface expression is apparent from LiDAR, aerial imagery and subtly on the ground. Given the quality magnitude of the impact, the poor state of preservation, and a full and detailed survey and recording to be carried out by way of mitigation, this is considered a Slight residual effect.

It is noted that no evidence of the 'site of' church and burial ground (RMP DG053-028--- and RMP DG053-028001-) at Trimragh was indicated from archaeological investigations. Subject to post-mitigation findings via archaeological monitoring of ground stripping works in advance of construction stage, there is a provisional predicted potential Not Significant residual effect identified in this regard.

A further three AAP (S2-AAP01, S2-AAP04, and S1-AAP05) and two riverine areas (S2-R01 and S2-R02) have also been noted throughout the Section 2 Study Area that have potential to retain presently undiscovered sub-surface archaeological features, deposits and/or artefacts. Construction stage related works for the Proposed Development within these areas are considered potential significant impacts in this regard. In the event of new discoveries and application of preservation in situ and/or preservation by record best practice principals in consultation with statutory bodies, the residual effect is predicted as *potential moderate*.

There is also direct potential significant impact on a discreet AAPs identified during field survey (F-2-01, F-2-03, F-2-04 and F-2-07). Subject to post-mitigation findings via archaeological investigations at construction stage, there is a provisional predicted *potential moderate* residual effect identified for these locations.

Table 17-66: Section 2 Predicted Residual Impacts on the Cultural Heritage Resource

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
Recorded archaeological RMP/SMR sites							
DG053-059---	Enclosure	620852, 911349	Direct	Moderate	<p>This site was recently identified and added to the SMR (2023) and was subsequently tested (2025) and found to be non-archaeological.</p> <p>However, a portion of this site located within the Proposed Development boundary will still require full archaeological evaluation, to ensure no archaeological remains exist within the untested areas, This area will be stripped of topsoil under archaeological supervision, with the remaining portion outside the Proposed Development footprint to be preserved in situ.</p> <p>In the event of an archaeological find, if it cannot be preserved in situ, full excavation by record of the site (in part) will be undertaken as part of advance works thereafter, subject to statutory approval.</p>	Written and photographic archaeological setting record prior to construction.	Slight
DG053-026---	Ringfort	618900, 911715	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Not Significant
DG053-028---	Church – site of	621387, 911469	Direct	Slight	Further test excavation and/or ground stripping under archaeological supervision within the vicinity of the site following site clearance works and in advance of construction and subject to statutory approval	None	Potential Not Significant
DG053-028001-	Graveyard – site of	621387, 911469	Direct	Slight	Further test excavation and/or ground stripping under archaeological supervision within the vicinity of the site following site	None	Potential Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
					clearance works and in advance of construction and subject to statutory approval		
DG053-052---	Redundant Record	621347, 911689	n/a	n/a	n/a	None	None predicted
Recorded architectural heritage (RPS/NIAH) sites							
40905394	Railway Bridge	619984, 910480	Indirect	Moderate	Outside Proposed Development boundary: Provision of exclusion zone at this road network location for heavy vehicles during construction stage	Written and photographic building setting record prior to construction	Slight
40905390	Mill	620477, 910954	Indirect	Moderate	Outside Proposed Development boundary. Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required	None	Not Significant
40906111	Bridge	619915, 907605	Indirect	Slight	Outside Proposed Development boundary: Provision of exclusion zone for heavy vehicles at this road network location during construction stage	None	Imperceptible
40905301	Leck COI Church	619518, 910103	Indirect	Not Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	None predicted
Identified cultural heritage LiDAR assessment and field survey sites							
TA2	Burnt Spread	621220, 911219	Direct	Moderate	Full archaeological excavation (preservation by record) including post-excavation assessment and reporting	None	Slight
F-2-05	Dromore House	620009, 910748	Indirect	Moderate	Outside Proposed Development boundary: Provision of exclusion zone at this location during construction stage	Written and photographic building setting record prior to construction	Slight
F-2-06	Dromore House Mill Structure	620024, 910833	Direct	Moderate	Full measured written, drawn and photographic record prior to construction	None	Slight

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S2-BH04	Disused railway line	620134, 910487	Direct & Indirect	Slight	Full measured written, drawn and photographic record prior to construction	Written and photographic built heritage setting record prior to construction	Not Significant
F-2-02	Fairy Tree - possible	620014, 909778	Indirect	Not Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	None predicted
S2-BH02	Former Railway Line	622278, 911023	Indirect	Not Significant	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	None predicted
F-2-01	AAP	619747, 909427	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
F-2-03	AAP	619778, 909897	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
F-2-04	AAP: Former Brickworks	619185, 911553	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
F-2-07	AAP	620974, 911242	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
Areas of archaeological potential							
S2-AAP01	Area of potential adjacent ringfort 'White fort' DG053-026--- Estuarian and floodplains of River Swilly at area of Milk Isle (Ref. F-2-04 Brickworks: flint artefact finds on shores of Swilly)	618938, 911805	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S2-AAP04	Area of elevated well-drained ground at the northern area of Drumgreggan townland (Field survey F-2-07 and LiDAR enclosure L212-3: area also overlooks Farsetmore fording point and location of Battle are on northern banks of Swilly, within vicinity of Trimragh 'site of church and graveyard DG053-028---)	621081, 911333	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
S2-AAP05	Natural level platform area on elevated position (Ref. F-2-03) and higher ground - SE rising ridge, above River Swilly (at north) (Ref. F-2-01)	619778, 909897, 619747, 909427	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
Underwater/Riverine Archaeology							
S2-R01	River Swilly	619071, 911692	Direct	Potential Significant	Assessment of available geotechnical investigation datasets to inform archaeological testing strategies in advance of construction. Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction.	None	Potential Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
					Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.		
S2-R02	Milk Isle channels (2 No.)	619216, 911509 & 619332, 911316	Direct	Potential Significant	Assessment of available geotechnical investigation datasets to inform archaeological testing strategies in advance of construction. Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.	None	Potential Moderate
Historic OS mapping sites							
M371	House (Drum Lodge)	620132, 910355	Direct	Moderate	Archaeological testing with evaluation and recording in advance of construction stage	None	Slight
M381	Limekiln	619856, 909825	Direct	Moderate	Measured (with excavation if required), written, drawn and photographic record prior to construction	None	Slight
M451	Vernacular Structure	619727, 908555	Indirect	Slight	None	Written and photographic building setting record prior to construction.	Not Significant
M312	Vernacular structure (x2)	618921, 911883	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M314	Well	618901, 911889	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M330	Well	920040, 910783	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M332	Sluice	620034, 910811	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M333	Mill pond	620046, 910793	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M334	Level crossing	620033, 910714	Direct	Slight	Measured written, drawn and photographic record prior to construction	None	Imperceptible
M337	Vernacular structure	620018, 910671	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M338	Vernacular structure	620005, 910656	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M339	Vernacular structure (on an existing rd)	619997, 910630	Direct	Imperceptible	None	None	Imperceptible
M340	Milepost	619751, 910642	Direct	Slight	Not located – field-based screening of area and removal for safe-storage if recovered	None	Imperceptible
M341	Vernacular structure (Smithy) (on an existing rd)	620041, 910638	Direct	Imperceptible	None	None	Imperceptible
M342	Limekiln	620127, 910657	Direct	Slight	Measured (with excavation if required), written, drawn and photographic record prior to construction	None	Imperceptible
M343	Spring	620186, 910691	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M344	Pond	620249, 910730	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M345	Spring	620363, 910847	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M346	Pond	620371, 910877	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M349	Spring	620555, 910898	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M367	Well	620141, 910337	Direct	Not significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M372	Pond	620047, 910450	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M379	Well	619934, 909833	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M380	Well	619939, 909842	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	Imperceptible
M384	Well	619873, 909706	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M385	Well	619759, 909402	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M386	Well	619729, 909451	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M387	Vernacular structure	619709, 909472	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M391	Well	620733, 911199	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M392	Vernacular structure	620749, 911154	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M393	Spring	620798, 911204	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M404	Flax Mill	621239, 911174	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M405	Mill pond	621257, 911140	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M424	Vernacular structure	622393, 911275	Direct	Moderate	Measured, written, drawn and photographic record prior to construction	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M446	Well	619452, 908723	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M447	Vernacular structure	619492, 908753	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M448	Limekiln	619601, 908575	Direct	Not Significant	Measured (with excavation if required), written, drawn and photographic record prior to construction	None	Imperceptible
M313	Vernacular structure (x4)	618903, 911711	Indirect	Imperceptible	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/ temporary works	None	None predicted
M366	School House	620156, 910343	Indirect	Imperceptible	On edge of Proposed Development boundary: Provision of exclusion zone at this location during construction stage	None	None predicted
M454	Well	619451, 908721	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	None predicted
Townland boundaries							
S2-T01	Mature tree/hedgerow	619704, 907808	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S2-T02	Commercial forestry at Ch. 0+500. Mature tree/hedgerow elsewhere	619591, 908984 619450, 908799 619400, 908725	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Imperceptible
S2-T04	Coaghmill stream: ditch and bank with hedgerow	619640, 909701	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S2-T09	Bank and ditch/stream with mature hedge, extends to river Swilly	619750, 910710	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
		619620, 910990					
		619579, 911064					
		619522, 911138					
S2-T10	Bank/ditch along reclaimed ground near Swilly	619329, 911316	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
		619212, 911512					
S2-T12	Farsetmore stream lined with mature trees and vegetation save for portion at existing N13	621261, 911073	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible
		621234, 911196					
		621233, 911281					
		621224, 911339					
		621217, 911447					

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S2-T15	Magheramore stream, lined with mature vegetation	622651, 911086	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Imperceptible

17.4.3.3 Section 3 of the Proposed Development

It is anticipated that following the application of mitigation measures at construction and operational stage there will be two significant and six moderate predicted residual impacts on the Cultural Heritage resource (see Table 17-67). It is noted that there is a total of 84 No. instances of No Predicted residual effect.

In summary, there are a total of 200 No. Predicted Residual Effects. Total quantities of Predicted Residual Effects for Section 3 are:

- 0 Profound Negative
- 0 Very Significant Negative
- 2 No. Significant Negative
- 8 No. Moderate Negative
- 17 No. *Potential* Moderate Negative
- 29 No. Slight Negative
- 120 No. Not Significant
- 1 No. *Potential* Not Significant
- 22 No. Imperceptible

Croaghan House (NIAH 40835028) and its associated attendant grounds (NIAH DG0040) at Carricknaslate is a mid-nineteenth century house with modifications but retaining much of its original form and character. The outbuildings have been heavily altered or rebuilt, and a small walled garden has been removed although remains of walling to the north of the house may have formally served fruit-growing purposes. Post-mitigation measures that have incorporated exclusion zones, built heritage records (including setting) in advance of construction, archaeological testing investigations and strategic landscaping/planting to reduce and offset construction and operational stage impacts are considered to result in a predicted Significant residual effect on both the setting of the house and the associated designed landscape.

Cavanacor House (RPS 40907026/NIAH 40834001) is a late 19th century house (with possible earlier 17th century fabric) with a designed landscape of later style and layout (historic demesne DG0028). There are also outbuildings with a courtyard, walled garden, two gate entrances and a later mid-nineteenth century derelict gate-lodge. Post-mitigation measures that have incorporated exclusion zones, baseline inspection records together with regular built heritage site monitoring to ensure structural integrity of the gate-lodge, built heritage records (including setting) in advance of construction, archaeological testing investigations and strategic landscaping/planting to reduce and offset construction and operational stage impacts are considered to result in a predicted moderate residual effect on the setting of the house and the associated surviving elements of the demesne within the immediate grounds of the house.

A further four structures have been noted to have a predicted moderate residual effect on same as a result of the Proposed Development: a former Station Master's House (NIAH 40834014), the former presbyterian manse at Glebe, Manorcunningham (NIAH 40827011/ M509/M482/M483 and M498), an outbuilding at Murlough (NIAH 40834006) and another outbuilding at Mondooy Lower (NIAH 40906245). Post-mitigation measures that have incorporated exclusion zones, built heritage records (including setting), baseline inspection records together with regular built heritage site monitoring to ensure structural integrity in advance of and during construction, and strategic landscaping/planting to reduce and offset construction and operational stage impacts. It also noted that measured operational stage effects (Significant) on St Patrick's church and bell tower (RPS 40907020/ NIAH 40834003 & 40834004) have been mitigated by way of built heritage landscape setting records and landscape planting, thereby resulting in a likely Moderate residual effect on the receptors.

A further six AAP (S3-AAP01 to S3-AAP06) and three rivers (S3-R01 – S3-R03) have also been noted throughout the Section 3 Study Area that have potential to retain presently undiscovered sub-surface archaeological features, deposits and/or artefacts. Construction stage related works for the Proposed Development within these areas are considered potential significant impacts in this regard. In the event of new discoveries and application of preservation in situ and/or preservation by record best practice principals in consultation with statutory bodies, the residual effect is predicted as potential moderate. There is also

direct potential significant impact on five discreet areas of note observed during field survey (F-3-07, F-3-08, F-3-10, F-3-11 and F-3-12) and three possible archaeological LiDAR anomalies (L307-3, L334-4 and L338-8), with another LiDAR anomaly L345-2 identified as a potential slight impact. Subject to post-mitigation findings via archaeological investigations at construction stage, there is a provisional predicted potential moderate/potential slight residual effect identified for these features.

Table 17-67: Section 3 Predicted Residual Impacts on the Cultural Heritage Resource

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
Recorded archaeological RMP/SMR sites							
DG070-048----	Standing stone (site of)	631630, 899335	Indirect	Moderate	Inside Proposed Development boundary: provision of exclusion zone at this location	None	Slight
DG070-082----	Souterrain	632263, 897206	Indirect	Moderate	Souterrain and TA5: enclosure (Curraghalane 1) and Neolithic settlement (Curraghalane 2) just outside Proposed Development boundary: provision of exclusion zone at this location during construction stage	Written and photographic monument setting record prior to construction	Slight
TA-3	Prehistoric settlement/ camp (pit C.46 and C.48)	630072, 901914	Direct	Moderate	Full archaeological preservation by record of pit feature within alignment footprint. Provision of exclusion zone at adjacent prehistoric settlement TA3 location outside Proposed Development boundary to east/northeast during construction stage	None	Slight
DG054-032--- / 40827009	NIAH Church	624171, 911045	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant
DG054-032001-	Graveyard	624171, 911045	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant
DG054-038---	Pluck Standing stone	623308, 910274	Indirect	Moderate	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant
DG054-040---	Standing stone	624718, 910165	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
DG070-032----	Standing stone (site of)	630611, 901048	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	None	Not Significant
DG070-033----	Standing stone (site of)	630570, 900977	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	None	Not Significant
DG071-005----	Standing stone (site of)	632525, 898541	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	None	Not Significant
TYR004:008	Battle Site (1588)	632345, 896492	Direct	Slight	Archaeological geophysical survey, metal detection and testing in advance of construction	None	Not Significant
DG070-074001-	Hillfort	629887, 897450	Indirect	Not Significant	None	None	Imperceptible
DG070-074002-	Passage tomb	629887, 897450	Indirect	Not Significant	None	None	Imperceptible
DG054-032002-	Architectural fragment	624171, 911045	Indirect	Imperceptible	None	None	None predicted
DG070-049----	Standing stone (site of)	631595, 899154	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	None	None predicted
Recorded architectural heritage (RPS/NIAH) sites							
40835028	Croaghan House	632331, 897998	Indirect	Very Significant	Provision of exclusion zone at this location during construction stage	Written and photographic building setting record prior to construction Strategic landscaping/planting at this area for screening effect	Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
DG0040	Carricknaslate	632483, 897992	Direct	Very Significant	Full measured written, drawn and photographic record of designed landscape (access avenue, northern and southern boundaries) prior to removal, Archaeological geophysical survey and testing with subsequent evaluation and recording of sub-surface features prior to construction	None	Significant
RPS 40907026 / NIAH 40834001	Cavanacor House (incl gate-lodge and entrances)	631322, 900236	Indirect	Significant	Provision of exclusion zone at this location during construction stage Baseline inspection record of gate-lodge together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.	Written and photographic building setting record prior to construction Strategic landscaping/planting at this area for screening effect	Moderate
40827011 / M509, M482 & M483, M498	Manse	623692, 910766	Indirect	Significant	Provision of exclusion zone at this location during construction stage	Written and photographic building setting record prior to construction Strategic landscaping/planting at this area for screening effect	Moderate
40834006	Outbuilding	631361, 899575	Indirect	Significant	Provision of exclusion zone at this location during construction stage Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.	Written and photographic building setting record prior to construction Strategic landscaping/planting at this area for screening effect	Moderate
40834014	Station Master's House	630394, 900308	Direct	Significant	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Moderate
40906245 / M565	Outbuilding	625893, 908742	Indirect	Significant	Provision of exclusion zone at this location during construction stage Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.	Written and photographic building setting record prior to construction	Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
						Strategic landscaping/planting at this area for screening effect.	
DG0028	Cavanacor	631244, 900234	Direct	Significant	Written and photographic demesne setting record prior to construction.	None	Moderate
RPS 40907020/ NIAH 40834003	St Patrick's Church	631322, 900236	Indirect	Significant	Reinforcement of existing field boundary hedgerow to west, with additional planting. Reinforcement of field boundary to west with additional planting for screening purpose.	Written and photographic building setting record prior to construction.	Moderate
40834004	St Patrick's Bell Tower	631914, 899459	Indirect	Significant	Reinforcement of existing field boundary hedgerow to west, with additional planting. Reinforcement of field boundary to west with additional planting for screening purpose.	Written and photographic building setting record prior to construction.	Moderate
40834002	Manse	631963, 899456	Indirect	Moderate	Reinforcement of existing field boundary hedgerow to west, with additional planting. Reinforcement of field boundary to west with additional planting for screening purpose	Written and photographic building setting record prior to construction.	Slight
HB10/08/007	Castletown House	633011, 897227	Indirect	Moderate	None	Written and photographic building setting record prior to construction	Slight
HB10/08/004C	Carricklee Gate Lodge	632659, 896791	Indirect	Moderate	None	Written and photographic building setting record prior to construction	Slight
40834002	Manse	631818, 899517	Indirect	Moderate	None	Written and photographic building setting record prior to construction	Slight
40834005	Ballindrait Windmill	631546, 899064	Indirect	Moderate	None	Written and photographic building setting record prior to construction	Slight
40834017	Goods Shed	630815, 900024	Indirect	Moderate	Provision of exclusion zone at this location during construction stage Baseline inspection records together with regular built heritage site	Written and photographic building setting record prior to construction	Slight

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
					monitoring to ensure structural integrity, with use of ground vibration monitors, if required.		
40906262	House	628672, 904128	Indirect	Moderate	Provision of exclusion zone at this location during construction stage Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.	Written and photographic building setting record prior to construction	Slight
RPS 40906203	House (Annie Tourish's)	628776, 903969	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage Provision of exclusion zone at this location during construction stage	None	Not Significant
40905456	Connaghan's Bridge	623467, 910234	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
HB10/08/004B	Carricklee Stables	632413, 896481	Indirect	Not Significant/Slight	None	None	None predicted
40834011	Station Masters House/ Building Misc	630864, 900013	Indirect	Moderate	Provision of exclusion zone at this location during construction stage Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.	None	None predicted
Identified cultural heritage LiDAR assessment and field survey sites							
L321-1	Road	627276, 907480	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
L338-1 / M657, M672, M673, M674	Mill Pond	629385, 903135	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
L338-2	Mill race	629480, 903902	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
L138-12	Pond	629445, 903129	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
L307-3	Mound Possible	625373, 910041	Direct	Potential Significant	Advance archaeological investigation via test trenching in advance of construction	None	Potential Moderate
L310-1	Former railway line	625422, 909973	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	Written and photographic built heritage setting record prior to construction	Not Significant
L338-6	Mill race	629471, 903097	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
L338-7	Mill pond	629383, 903143	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
L354-2 / M715	Farmstead	631415, 899424	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
L354-4	Farmstead	631406, 899417	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
L354-5 / M720	Well	631480, 899314	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
F-3-01 / M510 & M511	Holme farmstead	624585, 910362	Direct	Moderate	Archaeological testing with evaluation and recording in advance of construction stage	None	Slight
F-3-03	Fairy Tree - possible	625134, 910177	Direct	Moderate	Archaeological testing with evaluation and recording in advance of construction stage	None	Slight

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
F-3-04 / M555	Lime Kiln, stone wall, laneway	625516, 909875	Direct	Moderate	Archaeological testing with evaluation and recording in advance of construction stage	None	Slight
F-3-05	Tree Plantation	625624, 909642	Direct	Moderate	Archaeological testing with evaluation and recording in advance of construction stage	None	Slight
F-3-13 / M652	Ruined cottage	628866, 904004	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
F-3-14	Bridge	628737, 904066	Direct	Moderate	Full measured written, drawn and photographic record, including setting	None	Slight
L338-4	Flax Mill	629759, 903076	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant
L338-5	Mill pond	629799, 903082	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant
L345-3	Former railway line	630581, 900102	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	Written and photographic monument setting record prior to construction	Not Significant
L349-2 / M689	Building	630278, 900818	Indirect	Slight	Outside Proposed Development boundary: provision of exclusion zone at this location during construction stage, if required for accommodation/ temporary works	Written and photographic monument setting record prior to construction	Not Significant
L349-3 / M704	Lime Kiln	630761, 900186	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Not Significant
F-3-02	Carrickbally-dooley	624856, 910326	Direct	Slight	Archaeological testing with evaluation and recording of laneway in advance of construction stage	Written and photographic setting record for farmstead	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
	farmstead and laneway					at south prior to construction	
F-3-09 / M614	House	627941, 906201	Indirect	Slight	Provision of exclusion zone at this location during construction stage	Written and photographic building setting record prior to construction	Not Significant
L334-4	Enclosure Possible	628453, 904952	Direct	Potential Significant	Advance archaeological investigation via geophysical survey and test trenching in advance of construction	None	Potential Moderate
L338-8	Burnt Mound possible	629263, 903449	Direct	Potential Significant	Advance archaeological investigation via geophysical survey and test trenching in advance of construction	None	Potential Moderate
F-3-07	AAP	627293, 907427	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
F-3-08 / M610, M611	AAP	627706, 906497	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
F-3-10	AAP	628073, 905744	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
F-3-11	AAP	628357, 905068	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
F-3-12	AAP	628488, 904742	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
L345-2	Possible enclosure(s)	629747, 901618	Direct	Potential Slight	Advance archaeological investigation via geophysical survey and test trenching in advance of construction at area of townland boundary	None	Potential Not Significant
Areas of archaeological potential							
S3-AAP01	Central point ITM, wet marshy area, potential for <i>fulachta fiadh</i> Undulating and well-drained	623979, 910548 625492, 909853	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
	pasture, southerly aspect central ITM						
S3-AAP02	Wet lowland pasture, AAP for <i>fulachta fiadh</i> and burnt spreads	626597, 908265	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
S3-AAP03	Undulating rough pasture, flat areas, generally fair archaeological potential	629186, 903572 629440, 902155	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
	Gently undulating/flat lands that reach northern banks of Swilly Burn. Wet area adjacent river (drainage interventions noted in field drains, flood embankments etc.). Swilly Burn is an important historical boundary and although channelised post-Plantation) may originally have had a						

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
	much wider floodplain						
S3-AAP04	Area of standing stones (removed). High ground SE slopes high drumlin terrain falling to the Deelee River below N and S banks and lands at River Deelee – reference to Camp Hill (King James II encampment and Siege of Derry in the early 17 th century)	630488, 900843 630803, 900296 631074, 899817	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
S3-AAP05	Within area of recorded standing stone sites Undulating well drained soils	631704, 899275 631912, 899224	Direct	Potential Significant	Archaeological geophysical survey and testing in advance of construction	None	Potential Moderate
S3-AAP06	N14/N15 to A5 Link – northern and southern banks of the River Finn and adjacent lands (S3-R03).	632549, 897083 632655, 896949	Direct	Potential Significant	Archaeological geophysical survey, metal detection and testing in advance of construction	None	Potential Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
	Environs of site of a standing stone on NI Tyrone side of the river (TYR004:003) Carricklee (NI) 16 th century battle site (01/05/1588) between The Earl of Tyrone (Hugh O'Neill) (defeated) and Turlough Luineach O'Neill (victor) (AFM, Vol. 5, p.1867)						
Underwater/Riverine Archaeology							
S3-R01	Swilly Burn	629459, 902062	Direct	Potential Significant	Assessment of available geotechnical investigation datasets to inform archaeological testing strategies in advance of construction. Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.	None	Potential Moderate
S3-R02	Deele River	631116, 899722	Direct	Potential Significant	Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction. Geoarchaeological/ paleoenvironmental coring and assessment strategy at estuarine areas/floodplains, where suitable, in advance of construction.	None	Potential Moderate

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S3-R03	River Finn	632622, 896992	Direct	Potential Significant	Assessment of available geotechnical investigation datasets to inform archaeological testing strategies in advance of construction. Archaeological geophysical survey and archaeological testing/test pits at riverbanks and floodplains in advance of construction. Dive/wade surveys and metal detection on wet side of riverbanks in advance of construction.	None	Potential Moderate
Historic OS heritage sites							
M501	Vernacular structure	623646, 910487 623663, 910460	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of adjacent sub-surface features prior to construction	None	Slight
M529	Flax Mill	625292, 910073	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
M530	Mill Pond	625182, 910017	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
M531	Mill Race	625256, 910048	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight
M484	Mill Pond	623986, 910842	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation/ temporary works during construction	None	Not Significant
M485	Flax Mill	623973, 910824	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation/ temporary works during construction	None	Not Significant
M496	Milepost	623706, 910620	Direct	Slight	Ground walkover investigation and evaluation/ removal prior to construction	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M522	Vernacular structure	625094, 910176	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M524	Sluice	625022, 910068	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation/ temporary works during construction	None	Not Significant
M525	Well	625313, 910231	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation/ temporary works during construction	None	Not Significant
M526	Well	625401, 910177	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation/ temporary works during construction	None	Not Significant
M528	Well	625445, 910093	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation/ temporary works during construction	None	Not Significant
M532	Flax Mill	625151, 910015	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation/ temporary works during construction	Written and photographic building setting record prior to construction	Not Significant
M533	Sluice	625303, 910079	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Not Significant
M534	Weir	625305, 910067	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Not Significant
M559	Limekiln	625811, 908842	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Not Significant
M570	Limekiln	625950, 908646	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation/temporary works during construction	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M571	Milestone	626378, 908509	Direct	Slight	Ground walkover investigation and evaluation/ removal prior to construction	None	Not Significant
M582	Vernacular structure	626693, 908449	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation/temporary works during construction	None	Not Significant
M587	Limekiln	626876, 908198	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation /temporary works during construction	None	Not Significant
M593	Vernacular structure	626716, 908099	Indirect	Slight	None	Written and photographic building setting record prior to construction	Not Significant
M596	Vernacular structure	626931, 907832	Indirect	Slight	None	Written and photographic building setting record prior to construction	Not Significant
M597	Smithy	627077, 907688	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Not Significant
M599	Vernacular structure	627084, 907619	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Not Significant
M607	Milestone	627504, 906827	Direct	Slight	Ground walkover investigation and evaluation/ removal prior to construction	None	Not Significant
M615	Vernacular structure	628035, 906048	Indirect	Slight	Outside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage, if required, as part of LMA for accommodation/temporary works	Written and photographic building setting record prior to construction	Not Significant
M616	Flax Mill	628049, 905988	Direct	Moderate	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Slight

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M617	Well	627886, 905996	Indirect	Slight	Application of exclusion zone if required, as part of LMA for accommodation /temporary works during construction	None	Not Significant
M623	Well	628185, 905805	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M624	Well	628248, 905796	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M628	Vernacular structure	628230, 905403	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M637	Milestone	628364, 904987	Direct	Slight	Ground walkover investigation and evaluation/ removal prior to construction	None	Not Significant
M642	Vernacular structure	628594, 904292	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M647	Vernacular structure	628192, 905096	Indirect	Slight	None	Written and photographic building setting record prior to construction	Not Significant
M648	Saw / Flax Mill	628660, 904094	Indirect	Slight	None	Written and photographic building setting record prior to construction	Not Significant
M649	Post Office	628636, 904163	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M651	Mill Pond	628775, 904049	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Not Significant
M652	Flax Mill	628850, 904016	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Not Significant
M657	Mill Pond	629383, 903168	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
					evaluation and recording of sub-surface features prior to construction		
M666	Flax Mill	629614, 903084	Indirect	Slight	None	Written and photographic and setting record prior to construction	Not Significant
M668	Mill Pond	629785, 903091	Direct	Slight	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction	None	Not Significant
M670	Mill Race	629614, 903084	Indirect	Slight	None	Written and photographic and setting record prior to construction	Not Significant
M680	Vernacular structure	629859, 901433	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M698	Vernacular structure – birthplace of Rev James Porter, Tamnawood	630462, 900558	Direct	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M693	Vernacular structures	630636, 900658	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M694	Well	630526, 900672	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M695	Vernacular structure	630471, 900646	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M696	Vernacular structure	630477, 900660	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M672	Mill Pond	629386, 903143	Direct	Slight	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M673	Sluice	629414, 903151	Indirect	Slight	Inside Proposed Development boundary. Provision of exclusion zone at this location during construction stage	None	Not Significant
M674	Sluice	629405, 903129	Direct	Slight	Incorporate as part of archaeological testing programme with evaluation and recording in advance of construction stage	None	Not Significant
M697	Vernacular structure	630469, 900675	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M702	Limekiln	630608, 900073	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M703	Well	630673, 900103	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M714	Vernacular structures	631392, 899367	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M715	Vernacular structure	631411, 899402	Direct	Slight	Incorporate as part of archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M718	Well	631661, 899401	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M719	Well	631581, 899392	Indirect	Slight	Provision of exclusion zone at this location during construction stage	None	Not Significant
M724	Vernacular structure	631903, 899166	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M725	Vernacular structure	631903, 899130	Direct	Slight	Archaeological testing with evaluation and recording in advance of construction stage	None	Not Significant
M566	Well	625921, 908807	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M580	Well	626330, 908002	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M584	Well	626669, 908269	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M585	Limekiln	626679, 908268	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M586	Vernacular structure	626663, 908280	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M598	Well	627079, 907633	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M606	Limekiln	627567, 906835	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M610	Well	627695, 906529	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M611	Vernacular structure	627738, 906490	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M626	Spring	628241, 905435	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M653	Well	628751, 904043	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M675	Limekiln	629530, 902809	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M687	Well	630325, 901020	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M711	Well	631387, 899393	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M712	Well	631362, 899380	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M713	Well	631360, 899367	Direct	Not Significant	Archaeological testing with evaluation and recording in advance of construction stage	None	Imperceptible
M720	Well	631482, 899296	Indirect	Not Significant	Inside Proposed Development boundary. Provision of appropriate exclusion zone at this location during construction stage	None	Imperceptible

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
M735	Quarry	632384, 898541	Direct	Not Significant	None	None	Imperceptible
M736	Limekiln	632340, 898254	Indirect	Not Significant	Application of exclusion zone if required, as part of LMA for accommodation /temporary works during construction	None	Imperceptible
M739	Well	632346, 898184	Indirect	Not Significant	Application of exclusion zone if required, as part of LMA for accommodation /temporary works during construction	None	Imperceptible
M658	Well	629758, 903133	Indirect	Not Significant	None	None	None Predicted
M662	Well	629756, 903148	Indirect	Not Significant	None	None	None Predicted
M688	Well	630336, 900950	Indirect	Not Significant	None	None	None Predicted
M690	Well	630374, 900694	Indirect	Not Significant	None	None	None Predicted
Townland boundaries							
S3-T01	Raymoghly/ Glebe	623589, 910669	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T02	Glebe/ Raymoghly	623712, 910627	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T03	Raymoghly/ Labbadish	624099, 910550	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T04	Labbadish/ Raymoghly	624467, 910470	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T05	Raymoghly/ Carrickbally-doey	624605, 910429	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S3-T06	Carrickbally-dooey/ Carrickbally-dooey Glebe	625105, 910196 625114, 910241	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T07	Carrickbally-dooey Glebe/ Tullybogly	625133, 910172 625238, 910173	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T08	Tullybogly/ Drumoghill	625308, 910069	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T09	Drumoghill/ Drumcarn	625627, 909615	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction Wade stream survey with metal detection	None	Not Significant
S3-T10	Drumcarn/ Mondooney Lower	625693, 909067	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T11	Mondooney Lower/ Mondooney Middle	626256, 908358	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T12	Mondooney Middle/ Doorabble	626621, 908259	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T13	Doorabble/ Ballyholey Far	626941, 908063	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T14	Drumatoland/ Sheskinapoll	627397, 907130	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S3-T15	Sheskinapoll/ Ballyholey Far	627669, 906538	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T16	Sheskinapoll/ Slievebuck	627761, 906530	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T17	Sheskinapoll/ Ballyholey Far	627696, 906487	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Not Significant
S3-T18	Slievebuck/ Carricka-dawson	628072, 905735	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Not Significant
S3-T19	Carrickadawson/ Dromore Big	628250, 905358	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T20	Dromore Big/ Carnshannagh	628363, 905080	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction	None	Not Significant
S3-T21	Dromore Big/ Carnshannagh	628352, 904952	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T22	Carnshannagh/ Dromore Little	628826, 904068 628756, 904067 629052, 903867	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T23	Drumbeg/ Drumfad	629059, 903771	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T24	Carnshannagh/ Drumfad	629212, 903626	Direct	Slight	Wade stream survey with metal detection	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
					Full measured written, drawn and photographic record prior to construction		
S3-T25	Drumfad/ Feddyglass	629255, 903460	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T26	Tullyrap/ Feddyglass	629307, 903355	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T27	Tullyrap/ Feddyglass	629382, 903146	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T28	Tullyrap/ Broadlea	629464, 902486	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T29	Broadlea/ Mulnaveagh	629462, 902064	Direct	Slight	Swilly Burn – no in-river works required. Metal detection to banks Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T30	Mulnaveagh/ Mass Beg	629484, 901942 629554, 901864	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T31	Mass Beg/ Sheercloon	629615, 901635 629642, 901701	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T32	Sheercloon/ Gortin North	629926, 901307	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T33	Tamnowood/ Ballindrait	630718, 900408	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S3-T34	Ballindrait/ Cavanacor	630870, 900157 630877, 900084	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T36	Tyleford/ Rossgeir	631550, 900123	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T37	Cavanacor/ Ballynabreen	631119, 899714	Direct	Slight	River Deelee – no in-river works required metal detection to banks Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T38	Ballynabreen/ Murlough	631480, 899339	Direct	Slight	Wade stream survey with metal detection Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T39	Murlough/ Lifford Common	631667, 899282	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction Wade stream survey with metal detection	None	Not Significant
S3-T40	Lifford Common/ Drumboy	632058, 899161	Direct	Slight	Full measured written, drawn and photographic record, together with test archaeological section trench and evaluation prior to construction Wade stream survey with metal detection	None	Not Significant
S3-T41	Drumboy/ Lifford Common	632307, 898889	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T42	Lifford Common/ Townparks	632384, 898611	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T43	Townparks/ Carricknaslate	632447, 898172	Direct	Slight	Full measured written, drawn and photographic record of stone walling, prior removal at construction stage	None	Not Significant

Site Ref.	Type	ITM	Impact Type	Significance of Effect	Mitigation Measures (Construction Stage)	Mitigation Measures (Operational Stage)	Residual Impact
S3-T44	Carricknaslate/ Coneyburrow	632504, 897913 632464, 898059	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T45	Carricknaslate/ Coneyburrow	632498, 897814	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T46	Coneyburrow/ Currghalane	632516, 897472	Direct	Slight	Full measured written, drawn and photographic record prior to construction	None	Not Significant
S3-T47	Currghalane/ Carricklee (NI)	632623, 896990	Direct	Slight	River Finn – no in-river works required. Metal detection to banks Full measured written, drawn and photographic record prior to construction	None	Not Significant

17.4.3.4 Project-wide Residual Impacts

It is anticipated that following the application of mitigation measures at construction and operational stage there will be a total of four significant and eleven moderate predicted residual impacts on the Cultural Heritage resource as a result of the Proposed Development.

Significant residual impacts refer to the area of Dunwiley Fort (RMP DG078-003---) and Drumboe Lower (holy well SMR DG078-005001- and levelled church site RMP DG078005---) in the Section 1 Study Area of the Proposed Development and Croaghan House (NIAH 40835028) and grounds (DG0040) in Section 3 of the Proposed Development. Direct impact on recorded archaeological sites have been avoided throughout the Proposed Development by means of project design, save for areas where documentary sources refer only to approximate site locations:

- 'Site of Trimragh church RMP DG53-028--- and graveyard (RMP DG053-028001-) along the existing N13 in Section 2 – project investigations did not yield any surviving archaeological material evidence.
- Record of a battle site (1588) along the southern banks of the River Finn within the Northern Ireland (NI) jurisdiction – N14/N15 to A5 Link and proposed Trunk Road T3 on southern riverbank – discreet design footprint only.

In considering the context of the overall cultural heritage legacy within the Study Area as well as the scale of the Proposed Development, the overall project-wide residual impact is considered Not Significant.

17.5 Monitoring

Any mitigation measures shall be undertaken as directed by the Minister of Housing, Local Government & Heritage and in consultation with the TII Project Archaeologist to fully comply with relevant statutory provisions and national policy guidelines for the protection of the cultural heritage resource. Following the application of mitigatory measures outlined for construction stage (Section 17.4.1) and operational stage (Section 17.4.2) it is considered that no further long-term cultural heritage monitoring measures shall be required for the Proposed Development.

It is noted that for any strategic planting measures to reduce indirect impact on the setting of cultural heritage receptors at operational stage, a project-based monitoring programme shall be implemented to ensure that any planting failures are detected and replaced accordingly (see Chapter 18: Landscape and Visual).

17.5.1 Section 1

Following full discharge of mitigatory measures set out for the cultural heritage resource in Section 1 of the Proposed Development, no further monitoring measures are deemed necessary.

17.5.2 Section 2

Following full discharge of mitigatory measures set out for the cultural heritage resource in Section 2 of the Proposed Development, no further monitoring measures are deemed necessary.

17.5.3 Section 3

Following full discharge of mitigatory measures set out for the cultural heritage resource in Section 3 of the Proposed Development, no further monitoring measures are deemed necessary.

17.5.4 Proposed Development

Following full discharge of mitigatory measures set out for the cultural heritage resource in relation to the Proposed Development, no further monitoring measures are deemed necessary.

17.6 Interactions

The Cultural Heritage environmental discipline has identifiable interrelationships with key project disciplines including Soils, Geology & Hydrogeology, Landscape & Visual and Noise & Vibration. The iterative design

process has meant that optimised design solutions have been developed with regard to the interactions between disciplines and where possible, the provision of complimentary mitigation measures. Interactions are further detailed in Chapter 19: Interactions and Cumulative Effects.

17.7 Cumulative Effects

Cumulative effects are described as “The addition of many minor or insignificant effects, including effects of other projects, to create larger, more significant effects” (EPA, 2022, 52). A review of relevant plans and projects (currently in planning and/or development) in the context of the Proposed Development was undertaken for cumulative assessment for likely significant effects on the Cultural Heritage resource. Cumulative Effects are assessed in Chapter 19: Interactions and Cumulative Effects.

17.8 Transboundary Effects

Given the geographical location and large proximity distances of the Study Areas for Section 1 and Section 2, there are no predicted significant negative transboundary effects on the cultural heritage resource.

The proposed N14/N15 to A5 Link provides a direct connection from Section 3 of the Proposed Development to Northern Ireland.

There is a 16th century battle site at Carricklee (SMR TYR004:008) within the N14/N15 to A5 Link Study Area, with a further four recorded archaeological sites located outside the assessment corridor. Furthermore, there is two historic buildings of note, broadly located along the Urney Road, Strabane (Castletown House HB10/08/007 along the southern banks of the River Finn and Carricklee gate-lodge HB10/08/004C).

Impacts on these NI receptors have been assessed in the context of construction and operational stages as well as a consideration of residual and cumulative impacts on same. These have been defined as direct negative slight for the battle site TYR004:008 (construction stage) and indirect negative moderate for Castletown House HB10/08/007 and Carricklee gate-lodge HB10/08/004C (construction and operation stage).

Slight negative residual impact has been identified for Castletown House HB10/08/007 and Carricklee gate-lodge HB10/08/004C. Cumulative impact on Castletown House HB10/08/007 has been considered Very Significant.

Overall, it is considered that the transboundary effect of the Proposed Development including the N14/N15 to A5 Link is of low magnitude and slight significance of effect on the Cultural Heritage resource.

In the event that a proposed Trunk Road T3 and Section 1 of the proposed A5 WTC are not constructed in Northern Ireland then the N14/N15 to A5 Link part of Section 3 of the Proposed Development is not required (as described in Section 4.9.1 of Chapter 4: Project Description). In this scenario, the construction and operational stage impacts would remain the same. The battle site SMR TYR004:008 (direct negative impact of slight significance of effect) is likely to have originally encompassed both sides of the river bank and although the precise location is unknown, the Curraghane area of the Proposed Development footprint still retains potential and accordingly forms part of S3-AAP07.

The indirect moderate effects on the setting of Castletown House HB10/08/007 and Carricklee gate-lodge HB10/08/004C (construction and operation stage), although marginally reduced by the removal of the N14/N15 to A5 Link, would still retain the same magnitude of indirect impact due to the rising nature and visibility of the topography as rises up the lower slopes of Croaghan Hill from the River Finn.

Similarly, the Slight negative residual impact that has been identified for Castletown House HB10/08/007 and Carricklee gate-lodge HB10/08/004C for the N14/N15 to A5 Link would remain, in the event of it not being constructed. Cumulative impact on Castletown House HB10/08/007 has been considered Very Significant with the N14/N15 to A5 Link forming part of the Proposed Development. In the event the A5 WTC in Northern Ireland does not proceed, Castletown House will not be demolished as part of that project, and therefore there are no predicted cumulative effects on this receptor as a result of the Proposed Development.

Overall, it is considered that the transboundary effect of the Proposed Development excluding the N14/N15 to A5 Link is of low magnitude and slight significance of effect on the Cultural Heritage resource.

17.9 Summary

Summarised in Table 17-68 are the Very Significant and Significant impacts on the Cultural Heritage resource.

It is also noted that there are a number of potential cultural heritage sites/features/AAP that are presently unknowns in terms of the significance of impact on same. These receptors/areas have been assigned *potential* significant construction stage impacts, with *potential* moderate residual impact on the cultural heritage resource. Appropriate mitigation measures in the form of archaeological investigations in advance of construction stage, in agreement with statutory authorities and provision of adequate resourcing and programming to adequately evaluate and record any findings shall be given.

Table 17-68: Summary of Potential Environment Effects, Mitigation and Monitoring

Description of Impact	Measures Adopted as Part of the Project	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Mitigation Measures	Residual Effect	Proposed Monitoring
Section 1 Significant Construction & Operational Impacts on the Cultural Heritage resource							
Indirect Negative Impact on setting of ringfort RMP DG078-003 Dunwiley Fort	Outside Proposed Development boundary – site has been avoided. Strategic landscaping/planting along proposed alignment at this area for screening effect. Improved non-ground intrusive access and information provision for visiting public.	Medium	High	Significant	Provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works. Written and photographic monument setting record prior to construction.	Significant/Moderate	Ensure that any LVIA planting failures are detected and replaced accordingly.
Indirect Negative Impact on setting of church site RMP DG078-005--- at Drumboe Lower	Outside Proposed Development boundary – site has been avoided. Continued preservation by design of existing archaeological sub-surface soil environment	High	Medium	Significant	Provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works. Regular archaeological site inspection/ monitoring to ensure integrity of designed soil stability measures and ground vibration monitors, if required. Written and photographic monument setting record prior to construction.	Moderate	None
Indirect Negative Impact on holy well (incl setting) SMR DG078-005001- at Drumboe Lower	Outside Proposed Development boundary – site has been avoided. Provision of alternate water source to well.	High	Medium	Significant	Provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works. Regular archaeological site inspection/monitoring to	Significant/Moderate	None

Description of Impact	Measures Adopted as Part of the Project	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Mitigation Measures	Residual Effect	Proposed Monitoring
					ensure integrity of designed soil stability and water source measures, and ground vibration monitors, if required. Written and photographic monument setting record prior to construction.		
Direct Negative Impact on grouping value of ecclesiastical sites RMP DG078-005---Drumboe 'abbey' and holy well SMR DG078-005001-'abbey well' in Holywell Woods	Heritage information signage and linkage provision to holy well area for visiting public.	High	Medium	Significant	None	Moderate	None
Indirect Negative Impact on L115-2/S1-BH02 stone outbuilding at Drumboe Upper	Outside Proposed Development boundary, structure has been avoided. Strategic landscaping/planting along proposed alignment at this area for screening effect	High	Medium	Significant	Provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works. Written and photographic building setting record prior to construction.	Moderate	Ensure that any LVIA planting failures are detected and replaced accordingly.
Indirect Negative Impact on vernacular long-house RPS 40907834 at Drumboe Upper	Outside Proposed Development boundary, structure has been avoided. Strategic landscaping/planting along proposed alignment at this area for screening effect	Medium	High	Significant	Provision of exclusion zone at this location during construction stage, if required as part of LMA for accommodation/temporary works. Written and photographic building setting record prior to construction.	Moderate	Ensure that any LVIA planting failures are detected and replaced accordingly.
Indirect Negative Impact on outbuilding	Outside Proposed Development boundary,	High	Medium	Significant	Provision of exclusion zone at this location during	Moderate	Ensure that any LVIA planting

Description of Impact	Measures Adopted as Part of the Project	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Mitigation Measures	Residual Effect	Proposed Monitoring
NIAH 40907720 at Cappry	structure has been avoided. Strategic landscaping/planting along proposed alignment at this area for screening effect				construction stage, if required as part of LMA for accommodation/temporary works. Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required. Written and photographic building setting record prior to construction.		failures are detected and replaced accordingly.
Section 2 Significant Construction & Operational Impacts on the Cultural Heritage resource							
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Section 3 Significant Construction & Operational Impacts on the Cultural Heritage resource							
Indirect Negative Impact on Croaghan House NIAH 40835028 at Carricknaslate, Lifford	Outside CPO structure has been avoided. Strategic landscaping/planting at this area for screening effect.	High	Medium	Very Significant	Provision of exclusion zone at this location during construction stage. Written and photographic building setting record prior to construction.	Significant	Ensure that any LVIA planting failures are detected and replaced accordingly.
Direct Negative Impact on Croaghan House historic demesne DG0040 at Carricknaslate, Lifford	Due consideration of design alternatives and provision of optimised access requirements for residential and agricultural use thereby reducing the level of impact. Implementation of mitigatory measures of preservation by record.	High	Medium	Very Significant	Full measured written, drawn and photographic record of designed landscape (access avenue, northern and southern boundaries) prior to removal. Archaeological geophysical survey and testing with subsequent evaluation and recording of sub-surface features prior to construction.	Significant	Ensure that any LVIA planting failures are detected

Description of Impact	Measures Adopted as Part of the Project	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Mitigation Measures	Residual Effect	Proposed Monitoring
Indirect Negative Impact on setting of Cavanacor House (incl. gate-lodge and entrances)	Outside CPO: structure and attendant grounds forming part of original designed landscape layout has been avoided. Strategic landscaping/planting at this area for screening effect.	Medium	High	Significant	Provision of exclusion zone at this location during construction stage. Written and photographic building setting record prior to construction.	Moderate	Ensure that any LVIA planting failures are detected and replaced accordingly.
Direct Negative Impact on former Cavanacor historic demesne DG0040	Implementation of mitigatory measures of preservation by record.	Medium	High	Significant	Written and photographic demesne setting record prior to construction.	Moderate	None
Indirect Negative Impact on setting of St Patrick's church and bell tower (RPS 40907020/ NIAH 40834003 & 40834004)	Active Travel access provision with alignment traversing outside the site grounds and along an existing mature field boundary to reduce visibility impact from the church and tower site.	Medium	High	Significant	Reinforcement of field boundary to west with additional planting for screening purpose Written and photographic setting record prior to construction.	Moderate	Ensure that any LVIA planting failures are detected and replaced accordingly.
Indirect Negative Impact on setting of Gort Manse NIAH 40827011 /M509 and vernacular features M482, M483 & M498 at Glebe, Raymoghly	Outside Proposed Development boundary: structure and attendant grounds has been avoided. Strategic landscaping/planting at this area for screening effect.	Medium	Medium	Significant	Provision of exclusion zone at this location during construction stage. Written and photographic building setting record prior to construction.	Moderate	Ensure that any LVIA planting failures are detected and replaced accordingly.
Indirect Negative Impact on outbuildings NIAH 40834006 at Murlough	Outside Proposed Development boundary: structures complex has been avoided. Strategic landscaping/planting at	High	Medium	Significant	Provision of exclusion zone at this location during construction stage. Written and photographic building setting record prior to construction.	Moderate	Ensure that any LVIA planting failures are detected and replaced accordingly.

Description of Impact	Measures Adopted as Part of the Project	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Mitigation Measures	Residual Effect	Proposed Monitoring
	this area for screening effect.				Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required.		
Direct Negative Impact on former Station Master's House NIAH 40834014 at Ballindrait	Implementation of mitigatory measures of preservation by record.	High	Low	Significant	Full measured written, drawn and photographic record prior to removal, with subsequent evaluation and recording of sub-surface features prior to construction.	Moderate	None
Indirect Negative Impact on outbuilding NIAH 40906245 / M565 at Mondooney Lower	Outside Proposed Development boundary: structure has been avoided. Strategic landscaping/planting at this area for screening effect.	High	Medium	Significant	Provision of exclusion zone at this location during construction stage. Baseline inspection records together with regular built heritage site monitoring to ensure structural integrity, with use of ground vibration monitors, if required. Written and photographic building setting record prior to construction.	Moderate	Ensure that any LVIA planting failures are detected and replaced accordingly.

17.10 References

Aalen, F.H.A. et al (2011) *Atlas of the Rural Irish Landscape*. Cork: University Press.

AMS (2020a) *Report for the Ten-T Priority Route Improvement Project, Donegal, LiDAR Archaeological Assessment No. 1: Low Resolution LiDAR data*. Unpublished report. [See Appendix C17.04a].

AMS (2020b) *Report for the Ten-T Priority Route Improvement Project, Donegal, LiDAR Archaeological Assessment No. 2: Higher Resolution LiDAR data*. Unpublished report. [See Appendix C17.04b]

AMS (2022a) *Archaeological Consultancy Service Contract: Stage (i): TEN-T Priority Route Improvement: TA1 Drumboe Lower Stage (i)a Test Excavation and Stage (i)h Metal Detection Survey Report*. Unpublished report. [See CAppendix 17.06a]

AMS (2022b) *Archaeological Consultancy Service Contract: Stage (i): TEN-T Priority Route Improvement: TA2 Trimragh Stage (i)a Test Excavation and Stage (i)h Metal Detection Survey Report*. Unpublished report. [See Appendix C17.06b]

AMS (2022c) *Archaeological Consultancy Service Contract: Stage (i): TEN-T Priority Route Improvement: TA3 Carnshannagh Stage (i)a Test Excavation and Stage (i)h Metal Detection Survey Report*. Unpublished report. [See Appendix C17.06c]

AMS (2022d) *Archaeological Consultancy Service Contract: Stage (i): TEN-T Priority Route Improvement: TA4 Murlough Stage (i)a Test Excavation and Stage (i)h Metal Detection Survey Report*. Unpublished report. [See Appendix C17.06d]

AMS (2022e) *Archaeological Consultancy Service Contract: Stage (i): TEN-T Priority Route Improvement: TA5 Curragehalane Stage (i)a Test Excavation and Stage (i)h Metal Detection Survey Report*. Unpublished report. [See Appendix C17.06e]

AMS (2025) *Archaeological Consultancy Service Contract: Stage (i): TEN-T Priority Route Improvement: TA6 Drumgreggan Stage (i)a Test Excavation and Stage (i)h Metal Detection Survey Report*. Unpublished report. [See Appendix C17.06f]

Annals of the Four Masters. Electronic edition compiled by O. MacDonald (2002). CELT: Corpus of Electronic Texts Edition: T100005E, University College Cork.

Butlin, R.A. (ed) (1977) *The Development of the Irish Town*. First edition, London: Croom Helen; Totowa: Rowman and Littlefield.

Bing Aerial Maps. Available online at: <https://www.bing.com/maps/aerial> [Accessed 21/082020]

Cooney, G. (1999) *Landscapes of Neolithic Ireland*. London: Routledge.

Costello, E. (2017) Liminal learning: social practice in seasonal settlements of western Ireland. In *Journal of Social Archaeology* 17(2), 188-209.

Department of Arts, Heritage, Gaeltacht and the Islands (1999) *Framework and Principles for the Protection of the Archaeological Heritage*.

Department of Arts, Heritage, and the Gaeltacht (2011) *Architectural Heritage Protection: Guidelines for Planning Authorities*.

Department of Arts, Heritage and the Gaeltacht (2015) *A National Landscape Strategy for Ireland 2015-2025*.

Department for Communities NI (Historic Environment Division) (2018) *Guidance on Setting and the Historic Environment*.

Department of Culture, Heritage and the Gaeltacht (2020) *Culture 2025 – A National Cultural Policy Framework to 2025*.

Department of Housing, Planning & Local Government (2018) *Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment*.

Department of Housing, Local Government & Heritage (2019) *Built & Archaeological Heritage: Climate Change Sectoral Adaptation Plan*.

Department of Housing, Local Government & Heritage (National Monuments Service). Preservation Orders List (2025). Available online at: https://www.archaeology.ie/app/uploads/2025/03/Preservation-Order-listing_March-2025-FINAL.pdf [Accessed 23/04/2025]

Department of Housing, Local Government & Heritage. Database of Irish Excavations Reports. Available online at: <https://excavations.ie/> [Accessed on 23/04/2025]

Department of Housing, Local Government & Heritage (National Monuments Service). Historic Environment Viewer. Available online at: <https://heritagedata.maps.arcgis.com/apps/webappviewer/index.html?id=0c9eb9575b544081b0d296436d8f60f8> [Accessed on 23/04/2025]

Department of Housing, Local Government & Heritage (National Monuments Service). National Monuments List (2009). Available online at: <https://www.archaeology.ie/national-monuments/search-by-county> [Accessed on 23/04/2025]

Department of Housing, Local Government & Heritage (The Placenames Branch). Placenames Database of Ireland. Available online at: www.logainm.ie [Accessed on 23/04/2025]

Donegal County Council (2016) *Landscape Character Assessment of County Donegal*

Donegal County Council *County Donegal Development Plan 2024-2030*

Donegal County Council *County Donegal Heritage Plan 2023-2030*

Donegal County Council *Letterkenny Plan and Local Transport Plan 2023-2029*

Earthsound Geophysics (2012) *N14/N15 to A5 Link, Lifford, County Donegal. Archaeological Consultancy Service Contract Stage (i) Geophysical Survey*. Unpublished report.

Earthsound Geophysics (2020) *TEN-T Priority Route Improvement Project, Drumboe Lower, Ballynaglack, Ballyraine, Trimragh, Carnshannagh, Murlough & Curraghlane Td's, County Donegal: Archaeological Geophysical Survey*. Unpublished report. [See CAppendix 17.05]

Environmental Protection Agency (EPA) (2015) *Draft Advice Notes for Preparing an Environmental Impact Statement*.

Environmental Protection Agency (EPA) (2022) *Guidelines on the information to be contained in Environmental Impact Assessment Reports*.

ESRI ArcGIS Map Viewer. Available online at: <https://www.arcgis.com/apps/mapviewer/index.html?layers=10df2279f9684e4a9f6a7f08f8ebac2a9> [Accessed 23/04/2025]

European Commission (2017) *Guidance on the preparation of the Environmental Impact Assessment Report*.

Gallinagh, T. (2015) *A Long Journey in a Short Time: History, memories and folklore from the Finn Valley*. Gallinagh Publishing.

Google Earth - Satellite Imagery. Available online at: <https://earth.google.com/web/data=CiQSiHgOGQ2YmFjYjU2ZDIzMTFIOTiNTM2YjMzNGRiYmRhYTA> [Accessed 23/04/2025]

- Government of Ireland (n.d.) *Project Ireland 2040: Building Ireland's Future*
Irish Battlefields Project (2008) *Report on the 'battle' of Strabane, 1689*. SMR File. Extract published on Historic Environment Viewer (SMR Redundant Record DG071-011---). Available at: <https://maps.archaeology.ie/HistoricEnvironment/> [Accessed 23.04.2025].
- Historic England (2017) *The Setting of Heritage Assets: Historic Environment Good Practice Advice*. Planning Note 3 (Second Edition).
- Historic Environment Scotland (2016) *Managing Change in the Historic Environment: Setting*.
- Hunter, R.J. (1995) 'Plantation in Donegal', in Nolan, W., Ronayne, L. and Dunleavy, M. (eds), *Donegal: History and Society. Interdisciplinary essays on the history of an Irish county*. Dublin. pp. 283–324.
- Kimball, Michael J. (2000) *Human Ecology and Neolithic transition in Eastern County Donegal, Ireland: The Lough Swilly Archaeological Survey*. British Archaeological Series, 300.
- Kinahan, G. H. (1886) A Brief Report on Antiquities in the County Donegal. In *The Journal of the Royal Historical and Archaeological Association of Ireland*. Fourth Series, Vol. 7, No. 66, pp. 424-429.
- Lacey, B., Cody, E., Cotter, C., Cuppage, J., Dunne, N., Hurley, V., O'Rahilly, C., Walsh, P and Ó Nualláin, S. (1983) *Archaeological Survey of County Donegal: A Description of the Field Antiquities from the Mesolithic Period to the 17th Century A.D.* Donegal County Council.
- Lacey, B. (2006) *Cenél Conaill and the Donegal kingdoms, AD 500-800*. Dublin: Four Courts Press.
- Lacey, B. (2007) The 'Bend of the Finn': an archaeological landscape in east Donegal. In Manning, C. (ed.) *From Ringforts to Fortified Houses: Studies on castles and other monuments in honour of David Sweetman*. Wordwell. pp. 107-118.
- Lacey, B. (2012) *Lug's Forgotten Kingdom: The archaeology, history and folklore of the Slí Lugdach of Cloghaneely*. Dublin: Four Courts Press.
- Lacey, B. (2020) 'The Origins of the Uí Dochartaigh of Inishowen'. In Beattie, S. (ed.) *Donegal Annual*, Journal of County Donegal Historical Society, No. 72 pp. 59-64.
- Lewis, S. (1837) *A Topographical Dictionary of Ireland*. London. Available at: <https://www.libraryireland.com/topog/B/Ballibophay-Raphoe-Donegal.php> [Accessed 23.04.2025]
- MacEiteagáin, D. (2002) 'The Renaissance Lordship of Tír Chonaill 1461-1555' in Nolan, W., Ronayne, L. and Dunleavy, M. (eds), *Donegal: History and Society. Interdisciplinary essays on the history of an Irish county*. Dublin. pp. 203-228.
- Mac Laughlin, J. and Beattie, S. (eds) (2013) *An Historical, Environmental and Cultural Atlas of County Donegal*. Cork: Cork University Press.
- National Inventory of Architectural Heritage. Available online at: <https://www.buildingsofireland.ie/> [Accessed 23.04.2025]
- National Folklore Collection UCD Digitization Project. The Schools Collection (1937-1939). Available online at: <https://www.duchas.ie/en> [Accessed on 23/04/2025]
- Northern & Western Regional Assembly *Regional Spatial and Economic Strategy 2020-2032* (RSES)
- Ó Brógáin, T. (2011) 'The Battle of the Swilly (Farsetmore), 8 May 1567'. In *Early Modern History (1500-1700) Features*, Issue 3, Volume 19.
- Ó Muirgheasa, É. (1936) 'The Holy Wells of Donegal'. In *Béaloideas*, Vol 6, No. 2, pp 143-162. An Cumann Le Béaloideas Éireann/Folklore Society of Ireland.

Ordnance Survey Ireland (OSI) National Townland and Historical Map Viewer. Available online at: <https://osi.maps.arcgis.com/apps/webappviewer/index.html?id=bc56a1cf08844a2aa2609aa92e89497e> [Accessed 23/04/2025]

Open Topographic Data Viewer Available online at: <https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=b7c4b0e763964070ad69bf8c1572c9f5> [Accessed 23/04/2025]

Roughan & O'Donovan Consulting Engineers (2011) *N14/N15 to A5 Link EIS– Volume 1-Main Text*. pp 231-265.

RPS | Barry Transportation (2019) *Ten-T Priority Route Improvement Project, Donegal: Phase 2, Options Selection Report*. Prepared for Donegal County Council.

The Border Regional Authorities (2010) *Regional Planning Guidelines (2010-2022)*.

The Heritage Council. Heritage Maps. Available online at: www.heritagemaps.ie [Accessed on 23/04/2025]
Transport Infrastructure Ireland (2005a) *Guidelines for the Assessment of Archaeological Heritage Impacts of National Road Schemes*. TII Publication Number PE-ARC-02006.

Transport Infrastructure Ireland (2005b) *Guidelines for the Assessment of Architectural Heritage Impacts of National Road Schemes*. TII Publication Number PE-ARC-02007.

Transport Infrastructure Ireland (2005c) *Guidelines for the Testing and Mitigation of the Wetland Archaeological Heritage for National Road Schemes*. TII Publication Number PE-ARC-02008.

Transport Infrastructure Ireland (2025) *Cultural Heritage: Engaging the Public. Archaeology, Built Heritage, Landscape, Portable Heritage and Intangible Heritage*. GE-ARC-01035.

Transport Infrastructure Ireland (2025) *Guidelines for Cultural Heritage Impact Assessment of TII National Road and Greenway Projects*. TII Publication Number PE-ARC-02009

Transport Infrastructure Ireland (2025) *Project Manager's Manual for Major Road Projects*. TII Publication PE-PMG-02042.

Treadwell, V.W. (1953-4) 'The Plantation of Donegal: A Survey'. In *Donegal Annual* 3(1), 41-46.

Trinity College Dublin: Down Survey Project. Barony of Raphoe, Co. Donegal. Available online at: <http://downsurvey.tcd.ie/down-survey-maps.php#bm=Raphoe&c=Donegal> [Accessed 23/04/2025]

UNESCO (2022) *Guidance and Toolkit for Impact Assessments in a World Heritage Context*.

University College Dublin. National Folklore Collection. Available online at: <https://www.ucd.ie/irishfolklore/en/> [Accessed on 23/04/2025]

University College Cork, CELT Corpus of Electronic Texts: *Annals of the Four Masters*, Vol. 5, pp.1371-1373 and pp. 1867-1869. Available at: <https://celt.ucc.ie/published/T100005E.html> [Accessed 23.04.2025]

Woods, C. J. (2009) *Dictionary of Irish Biography* (Royal Irish Academy). Available at: DOI: <https://www.dib.ie/biography/porter-james-a7432> [Accessed 23.04.2025]