The background is a vibrant yellow. It is decorated with several abstract geometric shapes in shades of blue and teal. These include circles, semi-circles, and rounded rectangles, some of which are partially cut off by the edges of the page. The shapes are arranged in a way that creates a sense of movement and depth. The text is positioned in the upper left quadrant of the page.

Appendix A17.1
Arboricultural Impact
Assessment

Contents

	Page
1 Introduction	1
1.1 Background	1
1.2 Methodology	1
2 Soils	2
3 Trees and Risk in the Context of Development	3
3.1 Trees and Wildlife	3
3.2 Tree Works	3
4 Initial Tree Survey Overview	3
4.1 The Site	3
4.2 The Trees	5
5 Statutory and Non-Statutory Designations	6
6 Arboricultural Impact Assessment	7
6.1 Trees to be Removed	7
6.2 Tree Works	8
6.3 Incursions within the Root Protection Area or Canopy Spread	8
6.4 The Future Impact of Retained Trees	10
6.5 Tree Protection	10
6.6 Tree Planting	11
7 Conclusions	11
References	13

Appendices

Appendix A

Tree Survey Schedule

Appendix B

Arboricultural Method Statement

Appendix C

Tree Protection Plan Drawings

Appendix D

Example Site Monitoring Form

Appendix E

Tree Protection Signage (Example)

1 Introduction

1.1 Background

Arbor-Care Ltd (Professional Consulting Tree Service) was retained by Arup Consulting Engineers on behalf of the National Transport Authority (NTA) to undertake an Arboricultural Impact Assessment, and a Tree Protection Plan identifying the trees, groups of trees or hedgerows that may be impacted on by the BusConnects Core Bus Corridor. The surveyed trees contained within this report are located within or adjacent to the Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme (Figure 1 below) (hereinafter referred to as “The Proposed Scheme”). The objective of the impact assessment was to identify the areas that contained trees, groups of trees or hedgerows, and to ensure where practicable that these areas would be retained and to identify the trees that are to be removed to facilitate the Proposed Scheme.

The survey was undertaken between the 10th and 13th August 2020. The survey commenced at the junction of Grange Road and Nutgrove avenue, and at Junction 11 of the M50 and finished at Dame street, including the Terenure Road North / Harold’s Cross Road section and the of the Proposed Scheme.

The below impact assessment report is based on the British standard BS 5837:2012 Trees in relation to design, demolition and construction recommendations. This standard gives recommendations and guidance on the principles to be applied to achieve a satisfactory juxtaposition of trees, including shrubs, hedges and hedgerows, with structures. It sets out to assist those concerned with trees in relation to construction to form balanced judgements. This impact assessment report is accompanied by an inventory of trees and hedgerows on site and a tree protection plan. The Arboricultural Impact Assessment and a tree protection plan was prepared for the Proposed Scheme to identify trees that may be impacted on by the proposed development based on the proposed design.

1.2 Methodology

An initial tree survey and visual condition assessment was undertaken on the 24th and 25th of August 2020. As part of this report and in accordance with BS 5837: 2012 Trees in relation to design, demolition and construction - recommendations, only trees with diameters of 75mm or greater were surveyed. Also, in accordance with section 4.4.2.3 of the British standard document, where trees formed obvious groups, these were assessed and recorded as groups. The survey commenced at the junction of Grange Road and Nutgrove avenue, and at Junction 11 of the M50 and finished at Dame street, including the Terenure Road North / Harold’s Cross Road section and the Wasdale Park, Wasdale Grove, Victoria Road, Zion Road and Orwell Road section of the Proposed Scheme.

Section 4.4.2.3 of BS 5837: 2012 states:

Trees growing as groups or woodland should be identified and assessed as such where the arboriculturist determines that this is appropriate. However, an assessment of individuals within any group should still be undertaken if there is a need to differentiate between them, e.g. in order to highlight significant variation in attributes (including physiological or structural condition).

NOTE: The term “group” is intended to identify trees that form cohesive arboricultural features either aerodynamically (e.g. trees that provide companion shelter), visually (e.g. avenues or screens) or culturally, including for biodiversity (e.g. parkland or wood pasture), in respect of each of the three subcategories.

The survey concentrated primarily on the significant trees/hedgerows and groups located within 20m of any development works which could impact on the tree (this could include excavation, resurfacing, utility installation, new signage/lighting etc) within and adjacent to the Proposed Scheme and has been based on the topographical survey plan provided. The objective of this survey was to gather information regarding the trees along the Proposed Scheme and to assess the impact the Proposed Scheme may have on the trees. Refer to Appendix A for the tree survey schedule.

Trees that are of visual importance to the surrounding area justify special efforts to protect/preserve them, as their loss would have an irremediable adverse impact on the local environment. A trees significance can also be placed depending on the trees age, another variable to imply significance can be the aesthetic merit of the tree based on its unusual size, intrinsic physical features or outstanding appearance or occurring in a unique location or context, and thus provides a special contribution as a landmark or landscape feature.

All above parts of the trees were visually examined from ground level. Tree diameters (DBH) were estimated at 1.5 meters above grade as per standard arboricultural practice. Tree height was measured with the use of a clinometer (where practical). A generalised system was employed to describe the overall health of the trees. The system uses a three-tier rating scale with the following descriptors: Specimen condition 3-tier rating system

- Poor: 1-30%
- Fair: 31-70%
- Good: 71-100%

2 Soils

On shrinkable clay soil, tree growth can lead to the differential movement of structures as moisture is removed from the soil during the growing season.

Soils must be carefully assessed, and any foundations that could be influenced by trees must be installed following the recommendations of National House Building Council (NHBC) Standards Chapter 4.2: Building Near Trees (2021) to avoid potential future damage. Where trees which predate existing structures are to be removed, this can result in heave as the soils are re-wet. This should be monitored by a suitably qualified engineer during the construction works.

3 Trees and Risk in the Context of Development

This report is to inform the preliminary design, focusing on the quality and benefits of the trees and is not specifically designed to assess the safety of trees on Site. However, when obvious issues have been identified, recommendations have been included in the Tree Survey Schedule.

3.1 Trees and Wildlife

Full consideration must be given to the presence of species protected under the Wildlife Act (1976 – as amended) and other relevant legislation protected wildlife and habitats, in particular the presence of bats and nesting birds. It is recommended that wherever practicable, significant tree/hedge works take place outside of the typical bird nesting season of March to September.

3.2 Tree Works

Any tree surgery recommendations contained within this report are to be undertaken in accordance with BS3998: 2010 Tree work – Recommendations (BS3998), by suitably qualified and insured contractors. Significant pruning works are best undertaken when trees are dormant or outside periods of high functional activity, to reduce the overall impact on energy available to the tree for growth and processes. In general, the optimum period for works is between November to February and July to August (subject to the presence of protected species) when the tree is less active and better placed to respond to wounding and a reduction in leaf area.

4 Initial Tree Survey Overview

4.1 The Site

The Proposed Scheme consists of two sections, namely:

- The Templeogue to Terenure section; and
- The Rathfarnham to City Centre section.

The Templeogue to Terenure commences on the Tallaght Road, east of the M50 interchange. From here, the CBC is routed via the R137 along Tallaght Road and Templeogue Road, through Templeogue Village, to Terenure Cross, where it joins the Rathfarnham to city centre section.

The Rathfarnham to City Centre section commences on the R821 Grange Road at the junction with Nutgrove Avenue. The CBC is routed along Grange Road, Rathfarnham Road, Terenure Road East, Rathgar Road, Rathmines Road Lower, Richmond Street South, Camden Street Upper and Lower, and Wexford Street to its junction with Kevin Street Lower and Cuffe Street where priority bus lanes end. From Cuffe Street to Dame Street along Redmond's Hill, Aungier Street and South Great George's Street, the route will involve a traffic lane and a cycle track in both directions where it will join the existing traffic management regime in the city centre. Alternative cycle facilities are also proposed on Terenure Road North and Harold's Cross Road and on Wasdale Park, Wasdale Grove, Victoria Road, Zion Road and Orwell Road.

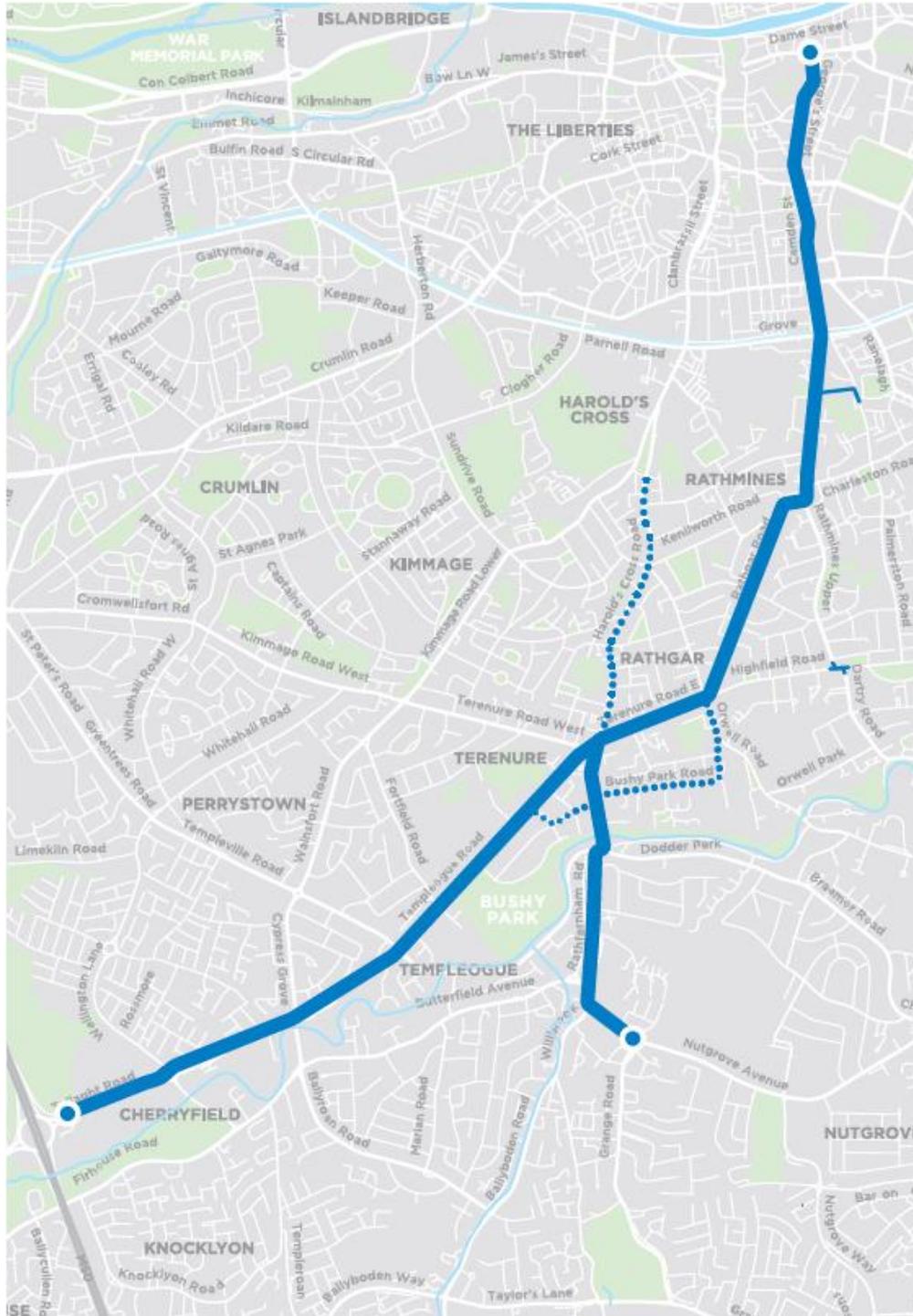


Figure 1: Proposed Route Corridor

4.2 The Trees

A total of 1104 individual trees were surveyed. The surveyed trees include a mixture of semi-mature to large mature trees, planted mainly as street trees, planted in central reservations and directly within footpaths as well as vegetation within private properties.

A breakdown of the Tree Categories on site as per BS 5837 2012 is set out in the table below:

Table 1: Tree Categories

Category	Quantity	Category %
A-Trees of high quality	149	13%
B- Trees of good quality	656	59%
C -Low quality or trees less than 75mm diameter	294	27%
U – Trees to be removed due to poor condition	5	1%
Total Trees surveyed	1104	100%

5 Statutory and Non-Statutory Designations

The route traverses both Dublin City Council and South Dublin County Council administrative areas, with the boundary between both Local Authorities located close to the Fortfield Road junction for the Templeogue to Terenure section and at the River Dodder for the Rathfarnham to City Centre section. The relevant development plans of both local authorities have been examined.

National Planning Framework

The National Planning Framework (NPF) seeks to ensure that new development is sustainable and underlines the importance of Green Infrastructure, of which trees form an integral part. This encompasses recognition of the importance of trees in relation to the management of air, soil and water quality along with other associated ecosystem services and climate change adaption. The NPF also seeks to achieve the protection and enhancement of landscapes and a net gain in biodiversity.

Dublin City County Development Plan 2016 - 2022

Section 10.5.7 of the Dublin City Development Pan 2016 recognises the benefits of trees in humanising spaces, enhancing the environment and minimising the impacts of climate change. Appendix 1: Existing Tree Preservation Orders in Dublin City 2016-2020 of the Dublin City Development Plan has been reviewed and it has been concluded that there are no TPO's identified within the study area.

South Dublin County Council Development Plan 2016 – 2022

Chapter 8 (Green Infrastructure) of the *South Dublin County Council Development Plan 2016* contains a number of policies relating to the protection and preservation of existing trees, groups of trees, woodlands and hedgerows, as well as the incorporation of new green infrastructure elements within new developments.

6 **Arboricultural Impact Assessment**

This impact assessment sets out the likely principal direct and indirect impacts of the Proposed Scheme on the trees on or immediately adjacent to the site and suitable mitigation measures to allow for the successful retention of significant trees or to compensate for trees to be removed, where appropriate.

A brief summary of trees to be removed, tree works and incursions related to the proposed development are detailed within the table below.

Table 2: Summary of Removals, incursions and pruning to facilitate the Proposed Development

Impact	Category A	Category B	Category C	Category U
Trees to be removed to facilitate the Proposed Scheme	6 individual trees	89 individual trees, 1 partial group	67 individual trees	5 individual trees
Total	6 features	90 features	67 features	5 features
Trees to be pruned to facilitate the Proposed Scheme	0	0	0	0
Total	7	90	67	5

6.1 **Trees to be Removed**

All trees that are destined for removal will be removed prior to any construction or excavation works taking place in the vicinity of any trees to be removed, where practicable.

Any tree/hedgerow remedial works that are required will also be undertaken prior to any construction or demolition activity on the site where practicable. All the above shall be carried out by qualified and insured tree surgeons and in accordance with BS 3998:2010 Tree works Recommendations.

The latest available information on the general arrangement, landscape general arrangement, drainage, structures, earthworks, lighting and compounds have been reviewed to inform this assessment.

Tree removals assume a reasonable worst case and in practice some trees may be able to be retained subject to on site investigation, such as trial holes, to determine root spread in conjunction with the guidance of an arboriculturist.

Where part of a group of trees is to be removed, an arboriculturist will carry out a site walkover immediately following site clearance work to determine the suitability and stability of retained trees, which may have been impacted by a loss of companion shelter.

New tree planting and associated landscaping works are as detailed in the proposed Landscaping Design Drawings. All the remaining recorded trees are likely to be able to be retained and protected.

6.2 Tree Works

Tree removal works to facilitate the Proposed Scheme are detailed in the Tree Survey Schedule included as Appendix A. Aside from tree removals, no other tree works such as pruning have been identified at this stage. Where new areas of access are proposed close to trees, crown lifting to ensure a clear height of 2.5m for footways, 3m for cycleways and 5.2m for highways is likely to be required.

The requirement for pruning will be addressed following a pre-commencement site walkover to review any trees which could form an obstruction, or which require pruning to facilitate construction works and to prevent inadvertent damage to tree crowns.

This level of pruning will generally not have a significant negative impact on the health or amenity of the trees in question.

No additional works to retained trees are likely to be required. All tree work is to follow the principles of BS3998: 2010 Treework.

Should the requirement for additional tree works be identified, this will be discussed with an arboriculturist on site.

6.3 Incursions within the Root Protection Area or Canopy Spread

A range of works are required within or close to the Root Protection Area (RPA) of retained trees which will require specialist working methods to ensure trees are not subject to a significant negative impact. The RPS is a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability and where the protection of the roots and soil structure is treated as a priority.

Tree RPAs have been calculated in accordance with BS 5837:2012. The formulas used are set out in Table 3.

Table 3: RPA Calculation Method

Number of Stems	Calculation Method
Single Stem Tree	$RPA (m^2) = \{ \text{stem diameter (m)} @ 1.5m \times 12 \}^2 \times 3.142$
Tree with more than one stem arising below 1.5m above ground level.	$RPA (m^2) = \{ \text{Basal Dia. (m)} \times 10 \}^2 \times 3.142$
<p>Note: The Calculated RPA should be capped to 707m², e.g. which is the equivalent to a circle with a radius of 15m or a square with approximately 26 m sides.</p>	

Given the constraints of the site, incursions into the RPA may be unavoidable therefore the mitigation measures as set out in the method statement are to be adhered to. The Arboricultural Method Statement included as Appendix B sets out the methodology for specific activities near retained trees. The following general principles as outlined below have been applied:

- The extent of resurfacing has not been fully determined at this stage. Where resurfacing of existing hard surfacing is required, this will be applied over the existing wearing course or on the existing intact subbase following the careful removal of the wearing course.
- New surfacing on existing unsurfaced ground within a significant proportion of an RPA will be achieved using a three-dimensional cellular confinement system (e.g. Cellweb or equivalent), installed without excavation using no dig techniques.
- Where existing verges or footways are to be widened out into the existing carriageway, kerb stones and haunching will be carefully removed by hand to protect adjacent tree roots. The Proposed Scheme will likely result in improved growing conditions for trees where carriageway is replaced by less heavily engineered footway or verge.
- Where the existing road carriageway is to be widened requiring a section of cut into a tree RPA or where new drainage cannot feasibly be adjusted to fully avoid the RPA, tree retention will be feasible where trees are considered on balance to be of an age, condition and species which will tolerate the degree of disturbance required (generally not more than a maximum of 20% of the overall RPA) and that this is preferable to the loss of the tree. The area of excavation nearest the tree will be carried out by hand and roots will be carefully assessed by an arboriculturist and pruned as required. New kerb stones and any haunching will be the narrowest profile feasible and alternative methodologies such as reinforced bridged/lintel sections of kerb can be applied, should significant roots need to be retained and worked around

- Where a new boundary wall is to be constructed within an RPA, alternative footings utilising low diameter pads or piles will be carefully located to avoid tree roots (via hand dug trial holes) and will support floating beams set at or above ground level, unless trial holes (under arboricultural supervision) determine that limited careful excavation is viable to allow beams to be set into the ground.
- The position of new lamp columns, signs and bus shelter footings can be locally adjusted to avoid significant roots and tree canopies and the lowest diameter footings feasible will be employed (such as screw piles or equivalent). Footings will be hand dug within RPAs.
- All new or diverted utilities will avoid the RPA of retained trees where practicable. Where this is not practicable, they will be installed using trenchless methods or via careful excavation in accordance with BS5837: 2012 and guidance from the National Joint Utilities Group (NJUG) Volume 4. Utilities to be removed will be cut off and left in situ where feasible to minimise disturbance or will be removed via careful excavation.

6.4 The Future Impact of Retained Trees

Retained trees will require periodic inspection to assess their structural condition and safety. Occasional removal of dead wood or other remedial works to address significant defects or obstructions may be required in areas of frequent access. This is unlikely to be overly onerous and will be the responsibility of the tree owner.

All tree works recommended as a result of the preliminary tree survey of the site, which considered trees in the context of the current use of the site (these works are included as preliminary management recommendations in the Tree Survey Schedule in Appendix A of this report), should be actioned within the recommended timescales.

6.5 Tree Protection

Retained trees are vulnerable to damage from construction activities which can include physical damage to stems and branches following impacts with plant, root severance following trenching, root death or dysfunction following damage to soil structure (caused by the movement of people or machinery on unsurfaced ground) or via the spillage of materials toxic to tree health. The default position is that the RPA and canopy spread of trees to be retained will form an effective Construction Exclusion Zone, secured with robust fencing where no access will be permitted. Where access is necessary within this area, special measures such as the use of ground protection (or retention of existing hard surfacing) and arboricultural supervision are generally required. In some cases, existing boundary walls and fences can be employed as a tree protection barrier where they are robust and sufficient to prevent access or damage.

6.6 Tree Planting

Existing areas of unsurfaced ground must be protected during the demolition and construction phases if they are to be re-used for new plantings. Protection can be achieved using fit for purpose ground protection measures as set out in BS5837:2012 Section 6.2.3 or by creating a fenced exclusion zone. Where protection is not practicable, soil amelioration or replacement works will be required to ensure suitable growing conditions for new trees to fully establish. Where new trees are to be planted, the minimum planting distances detailed in Annex A, Table A.1 of BS5837:2012 must be adhered to, to prevent direct damage to services and structures from future tree growth. An extract of BS5837:2012 presenting this table is shown in Figure 2.

New tree planting should be implemented in accordance with the guidance set out in *BS8545: 2014 Trees: from nursery to establishment in the landscape – Recommendations*.

Table A.1 Minimum distance between young trees or new planting and structure to avoid direct damage to a structure from future tree growth

Type of structure	Minimum distance between young trees or new planting and structure, in metres (m)		
	Stem dia. <300 mm ^{A)}	Stem dia. 300 mm to 600 mm ^{A)}	Stem dia. >600 mm ^{A)}
Buildings and heavily loaded structures	—	0.5	1.2
Lightly loaded structures such as garages, porches etc.	—	0.7	1.5
Services			
<1 m deep	0.5	1.5	3.0
>1 m deep	—	1.0	2.0
Masonry boundary walls	—	1.0	2.0
In-situ concrete paths and drives	0.5	1.0	2.5
Paths and drives with flexible surfaces or paving slabs	0.7	1.5	3.0

^{A)} Diameter of stem at 1.5 m above ground level at maturity

Figure 2: Annex A, Table A.1 of BS5837:2012

7 Conclusions

The arboricultural impact of the proposed development on the site will be moderate. It is proposed to remove 169 individual trees or hedges out of 1104 individual features surveyed to facilitate the Proposed Scheme.

The number of individual trees being retained also includes trees adjacent to the Proposed Scheme i.e. outside the site boundary and temporary land acquisition boundary. These trees are evident on the drawings contained in Appendix C.

A breakdown of the number of trees being removed and retained is shown in Table 4 below.

Table 4: Retained and Removed Tree Quantities

Retained and Removed Tree Quantities		
Retained trees	Total retained in development (no)	935
Removed trees	Total identified trees lost (no.)	169

Trees are to be removed due to a direct conflict with the Proposed Scheme and where specialist methodologies or design tweaks are not considered practical to facilitate their retention. Trees are also proposed to be retained where careful construction methodologies will allow their retention.

Tree loss will be mitigated with a robust and high-quality scheme of new tree planting as detailed in the proposed Landscaping General Arrangement drawings which represents an opportunity to increase the quality, impact, diversity, and resilience of the local tree stock. Soil structure for areas of new tree planting where the ground is currently unsurfaced will either be protected using ground protection or fenced exclusion zones; or the soil structure will be ameliorated or replaced following the completion of construction works on site.

References

British Standards Institution (BSI), BS5837:2012. Trees in relation to design, demolition and construction – Recommendations. BSI

British Standards Institution (BSI), BS3998:2010. Tree work – Recommendations. BSI

British Standards Institution (BSI) BS8545: 2014 Trees: from the nursery to independence in the landscape - Recommendations

National House Building Council (NHBC) Standards, (2020). Chapter 4.2: Building Near Trees

National Joint Utilities Group (NJUG) Volume 4, Issue 2, (2007). NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees.

National Tree Safety Group (NTSG), 2011. Common sense risk management of trees. Forestry Commission.

Project Ireland 2040 National Planning Framework

Dublin City Development Plan 2016-2022

South Dublin County Development Plan 2016-2022

Appendix A

Tree Survey Schedule

A1 Key to Abbreviations Used in the Survey

Ref No	Specific identification number given to each tree or group. T=Tree/H=Hedge/G=Group/W=Woodland/S=Shrub.	
Tag No.	Tree marked with individual tree tag of this reference number on site.	
Species	Common name followed by botanical name shown in <i>italics</i>	
RPA	Root Protection Area (As defined by BS5837)	
Stem diameter	Diameter of main stem measured in millimetres at 1.5 m above ground level. (MS = Multi-stem tree measured in accordance with BS5837 Annex C)	Av / Average: indicates an average representative measured dimension for the group or feature
Spread	The width and breadth of the crown. Estimated on the four compass points in metres.	
Crown clearance	The estimated height (in metres) above ground level of the lowest significant branch attachments.	
#	Estimated dimensions	
*	Indicates estimated position of tree (not indicated on topographical survey).	
P	Privately owned tree (e.g., tree not located in the public highway or adjacent public land).	
Category	Categorisation of the quality and benefits of trees on Site as per Table 1 and 2 of BS5837:2012. 1=Arboricultural quality/value 2=Landscape quality/value 3=Cultural quality/value (including conservation) A=High quality/value 40yrs+ (light green). B=Moderate quality/value 20yrs+ (mid blue) C=Low quality/value min 10yrs/stem diameter less than 150mm (grey). U=Unsuitable for retention (dark red).	
Life stage	<p>Young (Y): Newly planted tree 0-10 years.</p> <p>Semi-Mature (SM): Tree in the first third of its normal life expectancy for the species (significant potential for future growth in size).</p> <p>Early Mature (EM): Tree in the second third of its normal life expectancy for the species (some potential for future growth in size)</p> <p>Mature (M): Tree in the final third of its normal life expectancy for the species (having typically reached its approximate ultimate size).</p> <p>Over Mature (OM): Tree beyond the normal life expectancy for the species.</p> <p>Veteran (V): Tree, which is of interest biologically, aesthetically or culturally because of its condition, size or age.</p>	
Structural condition	<p>Good: No significant structural defects</p> <p>Fair: Structural defects which can be resolved via remedial works.</p> <p>Poor: Structural defects which cannot be resolved via remedial works.</p> <p>Dead: Dead.</p>	
Physiological condition	<p>Good: Normal vitality including leaf size, bud growth, density of crown and wound wood development.</p> <p>Fair: Lower than normal vitality, reduced bud development, reduced crown density, reduced response to wounds.</p> <p>Poor: Low vitality, low development and distribution of buds, discoloured leaves, low crown density, little extension growth for the species.</p> <p>Dead: Dead</p> <p>Fair/Good = Indicates an intermediate condition</p> <p>Fair – Good = Indicates a range of conditions (e.g., within a group)</p>	

Ref No	Specific identification number given to each tree or group. T=Tree/H=Hedge/G=Group/W=Woodland/S=Shrub.
Preliminary management recommendations	Works identified during the tree survey as part of sound arboricultural management, based on the current context of the Site (where relevant reference has been made to tree management based on the potential future context of the site).
Works to facilitate the scheme	Tree works identified as necessary to facilitate the Proposed Scheme following a desk top analysis of the proposals in relation to tree constraints.

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0001	5898	<i>Aesculus Hippocastanum</i> Horse Chestnut	20	950	3	3	4	4	3m East	Good	A large mature Horse Chestnut displaying over all good condition	M	No works required	No impact	A2	10.5m	20+
T0002	5899	<i>Horse Chestnut</i>	24	1080	4	4	6	5	4m East	Good	A large mature Horse Chestnut displaying over all good condition	M	No works required	No impact	A2	11.8m	20+
T0003	5900	<i>Quercus Robur</i> Common Oak	24	850	6	6	6	6	4m North	Good	A large mature Common Oak displaying over all good condition	M	No works required	No impact	A2	9.5m	40+
T0004	5901	Common Oak	22	690	6	6	4	4	3m North	Good	A mature Common Oak displaying over all good condition	M	No works required	No impact	A2	7.9m	40+
T0005	5902	Horse Chestnut	24	860	6	6	4	4	3m East	Good	A large mature Horse Chestnut displaying over all good condition	M	No works required	No impact	A2	9.6m	20+
T0006	5903	Horse Chestnut	24	1060	6	6	4	4	3m North	Good	A large mature co-dominant Horse Chestnut displaying over all good condition	M	No works required	No impact	A2	11.6m	20+
T0007	T160 x 3	Lime	8	200	3	3	3	3	1m east	Good	A cluster of 3 limes	EM	No works required	No impact	B2	3m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0008	7422 x2	Lime	18	340	2	2	2	2	2m North	Good	Two mature lime trees	M	No works required	No impact	B2	4.4m	20+
T0009	5904 x 3	<i>Tilia Lime</i>	10	340	2	2	2	2	3m North	Good	Represents 3 early mature Lime displaying over all good condition	EM	No works required	No impact	B2	4.4m	20+
T0010	Group 3 P	Lawson cypress	10	280	2	2	2	2	2m North	Good	A group of cypress trees A mature sycamore	M	No works required	No impact	C2	3.8m	20+
T0011	T115 P	Yew	14	300	6	6	6	6	3m North	Good	A mature multi-stemmed An early mature Sycamore displaying over all good condition	M	No works required	No impact	A2	4.0m	40+
T0012	Group 1 P	<i>Fagus Beech</i> <i>Sorbus Aria</i> <i>Whitebeam</i>	16	300 (circa)	3	3	3	3	2m East	Good	Represents group of early mature/mature Beech trees and Whitebeam trees displaying over all good condition. These trees are contained within private property along the eastern side of Grange Road behind a 2m high stone wall	EM/M	No works required	3 to be removed to facilitate work	B2	4.0m (circa)	20+
T0013	T161 P	Silver birch	14	160	2	2	2	2	1m south	Good	A mature birch in private property	EM	No works required	No impact	B2	2.6m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0014	1901 P	Lawson cypress	12	300	2	2	2	2	2m North	Fair	Mature cypress that has suffered basal damage	M	Remove	Remove to facilitate works	C2		<10 yrs
T0015	1902 P	Beech	24	650	5	5	5	5	4m North	Good	A mature beech	M	Remove	To be removed to facilitate works	A2	7.5m	20+
T0016	1903 P	Sycamore	20	600	4	4	3	3	2m North	Good	A mature sycamore	M	Remove	Remove to facilitate works	B2	7m	20+
T0017	1904 x 3 P	Lawson cypress	12	300	2	2	2	2	2m North	Fair	3 Mature cypress that has suffered basal damage	M	Remove	Remove to facilitate works	C2		<10 yrs
T0018	1906 P	Horse chestnut	22	600	3	3	3	3	3m south	Good	A mature horse chestnut 12m from the existing wall	M	Retain	No impact	B2	7m	20+
T0019	1905 x 5 P	Lawson cypress	14	320	2	2	2	2	2m North	Fair	5 Mature cypress that has suffered basal damage	M	Remove	Remove to facilitate works	C2		<10 yrs
T0020	1907 P	Beech	26	850	6	6	6	6	4m south	Good	A large mature beech 16m from existing wall	M	Retain	No impact	A2	9.5m	40+
T0021	1908 x3 P	Lawson cypress x 3	16	400	2	2	2	2	1m south	Good	3 mature lawson cypress	M	No works required	Remove 2 to facilitate works	B2	5m	20+
T0022	1909 P	Cherry	12	320	3	3	4	4	.5m south	Fair	A mature cherry in decline	M	Remove	Remove to facilitate works	B2	5m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0023	1910 P	Oak	16	440	4	4	4	4	1m south	good	A mature oak growing against the boundary wall	M	Remove	To be removed to facilitate works	A2	0	40+
T0024	1911 P	Beech	20	500	3	3	5	2	1m south	Good	A mature beech 12m from the existing wall	M	No works required	No impact	A2	6m	40+
T0025	1912-1913 x 4 P	Lawson cypress	18	350	2	2	2	2	2m east	Good	A row of 4 mature cypress 8m from the wall	M	No works required	No impact	B2	4.5m	20+
T0026	1914 P	Ash	24	550	4	4	4	4	4m south	Good	A large mature ash	M	No works	No Impact	A2	6.5m	40+
T0027	1915 x2 P	Lawson cypress x 2	16	350	2	2	2	2	3m south	Good	Two cypress 6m from the boundary wall	M	Remove	Remove to facilitate works	B2		20+
T0028	1916 P	Oak	22	650	2	2	2	8	2m North	Fair	A mature oak that is in decline suffered upper canopy damage, 10m from the wall	M	No works	No Impact	C2		<10 yrs
T0029	1917-1918 x 3 P	Lawson cypress	16	380	2	2	2	2	1m North	Good	A row of 3 cypress located 9m from the wall	M	Retain	No impact	B2	4.8m	20+
T0030	1919 P	Willow	10	400	4	4	4	4	2m North	Good	A mature willow	M	No works required	No impact	C2		20+
T0031	1920 x2 P	Sycamore	18	350	4	4	4	4	2m North	Good	2 mature sycamores growing against the wall	M	Remove to facilitate works	Remove to facilitate works	B2		20+
T0032	1921 P	Sycamore	10	280	2	2	2	2	2m North	Fair	Sycamore growing against the wall, it has suffered significant stem damage	EM	Remove to facilitate works	Remove to facilitate works	C2		<10 yrs

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0033	T124 P	Sycamore	16	500	3	3	3	3	2m North	Good	A mature sycamore	M	No works required	No impact	B2	6m	20+
T0034	T1 *P	Beech	14	400 (circa)	3	3	2	2	3m North	Good	A mature multi-stemmed Beech displaying over all good condition. This tree is within the private garden of 37 Grange Road.	M	No works required	No impact	B2	5.0m (circa)	20+
T0035	T127 P	Sycamore	10	280	2	2	2	2	2m south	Fair	A sycamore that has been heavily pruned in the past An outstanding cedar	EM	Consider for removal	No impact	C2	3.8m	10+
T0036	T125 P	Beech	18	400	3	3	3	3	3m South	Good	A mature beech in a private garden A mature co-dominant	M	No works required	No impact	B2	4m	20+
T0037	T126 P	Lawson cypress	12	300	2	2	2	2	1m east	Good	A mature co-dominant Lawson cypress	M	No works required	No impact	C2	4m	20+
T0038	1922 P	Sycamore	12	300	2	2	1	1	1m south	Good	A mature sycamore growing against the wall	M	Remove to facilitate works	Remove to facilitate works	B2		20+
T0039	1923 x 5 P	Sycamore x 5	16	320	3	3	3	3	2m south	Good	A cluster of 5 sycamore 5m from the wall	M	Remove to facilitate works	Remove to facilitate works	B2		20+
T0040	1924 x 3 P	Lawson cypress	16	400	2	2	2	2	1m south	Good	A row of 3 Mature cypress 9m from the existing wall	M	No works required	No impact	B2	5m	20+
T0041	1926 P	Ash	22	600	4	4	4	4	5m south	good	A large mature ash 15m from the wall	M	No works required	No impact	A2	7m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0042	1927 P	Ash	24	700	6	6	6	6	5m south	Good	A large mature ash 15m from the wall	M	No works required	No impact	A2	8m	40+
T0043	5905 P	<i>Cedrus Atlantica</i> Atlas Cedar	24	750	4	4	4	4	8m North	Good	A large mature Atlas Cedar displaying over all good condition. This tree is located within the Church grounds.	M	No works required	No impact	A2	8.5m	40+
T0044	1928 P	Lawson cypress	14	380	2	2	2	2	2m east	Good	A mature cypress 7m from the wall	M	No works required	No impact	B2	4.8m	20+
T0045	1929 x2 P	Elm	22	550	4	4	4	4	2m south	Good	2 large mature elms 5.5m from the wall	M	Remove to facilitate works	Remove to facilitate works	B2		20+
T0046	1930 P	Lawson cypress	14	380	2	2	2	2	2m east	Good	A mature cypress 7m from the wall	M	No works required	No impact	B2	4.8m	20+
T0047	1931 P	Ash	24	540	4	4	4	4	4m south	Good	A large mature ash 10m from the wall	M	No works required	No impact	A2	6.4m	40+
T0048	1932 P	Beech	24	640	4	4	4	4	3m North	Good	A large mature ash 8m from the wall	M	No works required	No impact	A2	6.4m	40+
T0049	1933 P	Beech	24	750	6	6	6	6	4m North	Good	A mature beech 9m from the wall	M	No works required	No impact	A2	8.5m	40+
T0050	1934 P	Elm	15	400	4	4	3	3	2m North	Good	A mature elm growing against the wall	M	Remove to facilitate works	Remove to facilitate works	B2		20+
T0051	1935 P	Sycamore	12	680	2	2	1	1	4m south	Fair	A mature sycamore in decline, growing 5m from wall	M	Remove to facilitate works	Remove to facilitate works	C2		20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0052	1936 P	Sycamore	12	240	1	1	1	1	1m south	Good	A sycamore growing against the wall	EM	Remove to facilitate works	Remove to facilitate works	C2		20+
T0053	1937 P	Lime	20	1000	2	2	2	2	3m south	Good	A large mature lime 5m from the wall	M	Remove to facilitate works	Remove to facilitate works	B2		20+
T0054	1938 P	Holm oak	24	1200	10	10	10	10	2m south	Good	A large mature oak 12m from the wall	M	No works required	No impact	A2	12m	40+
T0055	1939 P	Beech	22	800	4	4	4	4	1m south	good	A large mature beech 8m from the wall	M	No works required	No impact	A2	9m	40+
T0056	1940 P	Oak	14	500	3	3	3	3	2m south	Fair	A large oak leaning toward the road, 5m from the wall	M	Remove to facilitate works	Remove to facilitate works	C2		10+
T0057	1941 P	Beech	26	550	4	4	4	4	2m east	Good	A large mature beech significant stem wound on the eastern side, 8m from wall	M	Remove to facilitate works	Remove to facilitate works	C2		10+
T0058	1942 P	Lime	22	420	3	3	3	3	4m south	Good	A large mature lime 14m from the wall	M	No works required	No impact	A2	5.2m	20+
T0059	1943 P	Monterey cypress	24	730	4	4	4	4	4m east	Good	A large mature cypress 12m from the wall	M	No works required	No impact	B2	8.3m	20+
T0060	1944 P	Beech	16	400	2	2	2	2	1m south	Good	A large mature beech 9m from the wall	M	No works required	No impact	B2	5m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0061	1945 P	Sycamore	14	350	2	2	2	2	1m North	Fair	A sycamore mature ash 6m from the wall	M	No works required	No impact	C2		10+
T0062	1946 x5 P	Sycamore	12	360	1	1	1	1	1m North	Fair	5 mature sycamore 1m from the wall, suppressed by the larger trees	M	Remove to facilitate works	Remove to facilitate works	C2		10+
T0063	1947 P	Monterey cypress	26	1500	6	6	6	6	4m North	Good	A large mature cypress 9m from the wall	M	No works required	No impact	A2	12m	40+
T0064	1948 P	Ash	12	300	2	2	1	1	3m south	Good	A mature ash 8m from the wall	M	No works required	No impact	B2	4m	20+
T0065	1949 x 14 P	White poplar cluster x 14	20	400	4	4	4	4	2m south	Good	A cluster of circa 14 white poplar 12m from the wall	M	No works required	No impact	B2	5m	20+
T0066	1950 P	Sycamore	18	550	6	6	6	6	3m south	Good	A large mature sycamore 10m from the wall	M	No works required	No impact	B2	6.5m	20+
T0067	1951 P	Ash	16	500	4	4	4	4	2m south	Good	ash 10m from the wall	M	No works required	No impact	B2	6m	20+
T0068	1952 x 3 P	Sycamore x 3	8	280	2	2	2	2	1m south	Fair	3 sycamores	EM	No works required	No impact	C2		10+
T0069	1953 P	Monterey cypress	26	1100	6	6	6	6	2m south	good	A large mature cypress	M	No works required	No impact	A2	12m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0070	1955 x3 P	Redwood	20	400	2	2	2	2	1m south	Good	3 redwoods	M	No works required	No impact	B2		20+
T0071	1956 P	Lime	10	300	2	2	2	2	1m North	Fair	Mature Lime	EM	No works required	No impact	C2		10+
T0072	1957 x 3 P	Sycamore x 3	8	200	2	2	2	2	1m north	Good	Three mature sycamore	M	No works required	1 to be removed to facilitate works	B2	3m	20+
T0073	5906 x 5 P	Lime x 5	6	280	2	2	2	2	1m East	Good	Represents 5 early mature Lime displaying over all good condition. These trees are contained within an apartment complex	EM	No works required	No impact	C2	3.8m	20+
T0074	5907	<i>Cedrus Atlantica Blue Atlas Cedar</i>	12	400	2	2	2	2	3m North	Good	A mature Blue Atlas Cedar displaying over all good condition	M	No works required	No impact	B2	5.0m	20+
T0075	5908 x2	<i>Acer Platanoides Crimson King Norway Maple Crimson King</i>	8	290	2	2	2	2	2m East	Good	Represents 2 early mature Norway Maple Crimson King displaying over all good condition	EM	To be removed to facilitate works	To be removed to facilitate works	C2	3.9m	10+
T0076	7423 P	Cedar	24	900	6	6	6	6	10m south	Good	An outstanding cedar within the church grounds	M	No works required	No impact	A2	10m	40+
T0077	7424 P	Giant redwood	34	1500	6	6	6	6	8m south	Good	A massive redwood within the church grounds, outstanding specimen	M	No works required	No impact	A2	12m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0078	5918 P	<i>Quercus Oak</i>	24	690	4	4	4	4	3m East	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	7.9m	40+
T0079	5917 P	<i>Acer Pseudoplatanus Sycamore</i>	22	700	4	4	6	6	3m North	Good	A large mature Sycamore displaying over all good condition. This tree is located within the grounds of Rathfarnham Castle	M	No works required	No impact	B2	8.0m	20+
T0080	5910 -5911 x 8	Norway Maple Crimson King	8	200	2	2	2	2	2m East	Good	Represents 8 early mature Norway Maple Crimson King displaying over all good condition	EM	7 to be removed to facilitate works	7 to be removed to facilitate work	B2	3.0m	10+
T0081	5915	Norway Maple Crimson King	10	330	2	2	2	2	3m North	Good	A mature Norway Maple Crimson King displaying over all good condition	M	To be removed to facilitate works	To be removed to facilitate works	B2	4.3m	20+
T0082	5916 x 8 P	Lime x 8	10	290	2	2	2	2	3m East	Good	Represents a group of 8 early mature Lime displaying over all good condition	EM	No works required	No impact	B2	3.9m	20+
T0083	5914	Norway Maple Crimson King	10	330	2	2	2	2	3m North	Good	A mature Norway Maple Crimson King displaying over all good condition	M	No works required	No impact	B2	4.3m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0084	5912	Norway Maple Crimson King	12	460	3	3	3	3	3m East	Good	Represents 2 mature Norway Maple Crimson King displaying over all good condition	M	No works required	No impact	B2	5.6m	20+
T0085	T2 x 4 P	Lime	8	220	3	3	3	3	3m East	Good	Represents 4 early mature Lime displaying over all good condition. These trees are located on private property.	EM	No works required	No impact	B2	3.2m	20+
T0086	5909 x3	Norway Maple Crimson King	8	290	2	2	2	2	2m East	Good	Represents 3 early mature Norway Maple Crimson King displaying over all good condition	EM	No works required	To be removed to facilitate works	C2	3.9m	10+
T0087	5913 x 12	<i>Betula Pendula</i> Silver Birch <i>x12</i>	6	210	2	2	2	2	1m North	Good	Represents 12 semi-mature Silver Birch displaying over all good condition	SM	No works required	No impact	C2	3.1m	20+
T0088	5919 x 2	<i>Acer Platanoides</i> Norway Maple	8	250	1	1	1	1	2m East	Fair	Represents 2 early mature Norway Maple displaying over all fair condition	EM	No works required	To be removed to facilitate works	C2	3.5m	10+
T0089	5920 x3 P	Lime	16	320	2	2	2	2	4m East	Good	Represents 3 mature Lime displaying over all good condition. These trees are located within the grounds of the Credit Union	M	No works required	No impact	B2	4.2m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0090	5921 x3 P	Norway Maple	4	150	1	1	1	1	2m East	Fair	Represents 3 semi-mature Norway Maple displaying over all fair condition. These trees have been heavily pruned	SM	No works required	No impact	C2	2.5m	10+
T0091	5924 x7 P	Silver Birch	12	310	2	2	2	2	2m East	Good	Represents 7 mature Silver Birch displaying over all good condition. These trees are located within a private property	M	No works	No impact	B2	4.1m	20+
T0092	5925 x3	<i>Betula Birch</i>	4	150	0.5	0.5	0.5	0.5	1m East	Fair	Represents 3 young Birch displaying over all fair condition. These trees are showing signs of decline. The middle tree is to be maintained.	Y	No works required	2 to be removed to facilitate works	C2	2.5m	20+
T0093	T22	Horse Chestnut	18	580	3	3	3	3	3m North	Good	A large mature Horse Chestnut displaying over all good condition. This tree is located outside 96 Rathfarnham Road.	M	No works required	No impact	A2	6.8m	20+
T0094	T23	Horse Chestnut	18	580	3	3	3	3	3m North	Good	A large mature Horse Chestnut displaying over all good condition. This tree is located outside 94 Rathfarnham Road	M	No works required	No impact	A2	6.8m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0095	T119 P	Lawson cypress	8	200	1	1	1	1	1m North	Fair	A Lawson cypress hedge	EM	No works required	No impact	C2	3m	10+
T0096	T3 P	<i>Magnolia spp</i> <i>Magnolia</i>	8	200	2	2	2	2	1m East	Good	A mature multi-stemmed Magnolia tree displaying over all good condition. This tree is located within the private garden of 104 Rathfarnham Road	M	No works required	No impact	A2	3.0m	20+
T0097	T3B P	<i>Cabbage Palm</i>	6	200	1.5	1.5	1.5	1.5	0.5m East	Good	A cabbage palm in good condition in the garden of 149 Rathfarnham Road	M	No works required	Remove to facilitate works	C2	2.0m	10+
T0098	T4 P	<i>Rhus Glabra</i> <i>Sumac</i>	3	100	1	1	1	1	0.5m East	Fair	An early mature Sumac displaying over all fair condition	EM	No works required	No impact	C2	2.0m	10+
T0099	T5 x 3 P	<i>Prunus Cerasifera</i> <i>Purple Plum</i> <i>Sorbus</i> <i>Mountain Ash</i> <i>Silver Birch</i>	6	200	2	2	2	2	1m East	Good	Represents 3 semi-mature Purple Plum, Mountain Ash and Silver Birch displaying over all good condition. These trees are located on private property.	SM	No works required	No impact	B2	3.0m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0100	T6 x 2 P	<i>Cupressus Cypress</i>	4	150	0.5	0.5	0.5	0.5	0.5m East	Good	Representing 2 mature Cypress displaying over all good condition. These trees are located on private property. One in 168 and the other in 172 Rathfarnham Road	M	No works required	No impact	C2	2.5m	20+
T0101	T7A P	Mixed Shrubbery	3	100	1	1	1	1	0.5m East	Good	Mature mixed Shrubbery displaying over all good condition. This tree is located in private property of 172 Rathfarnham Road	M	No works required	No impact	C2	2.0m	10+
T0102	T7 P	Lawson Cypress	6	200	2	2	2	2	0.5 North	Good	Mature Cypress in private property	M	No works required	No impact	B2	3.0m	20+
T0103	5926	Mountain Ash	10	270	2	2	2	2	3m East	Good	A mature Mountain Ash displaying over all good condition	M	No works required	No impact	B2	3.7m	20+
T0104	T9 P	Norway Maple Crimson King	6	250	2	2	2	2	2m East	Good	A mature Norway Maple Crimson King displaying over all good condition. This tree is located on the private property of 107 Rathfarnham Road	M	No works required	No impact	C2	3.5m	20+
T0105	T10 x4 P	<i>Cupressus x Leylandii</i> Leyland Cypress	3	150 (circa)	1	1	1	1	3m East	Fair	4 mature Leyland Cypress within private gardens on the eastern side of Rathfarnham Road displaying over all fair condition.	M	No works required	No impact	B2	2.5m (circa)	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0106	T163 x4 P	Sycamore cluster	16	300	2	2	2	2	2m North	Good	A cluster of mature sycamores	M	No works required	No impact	C2	4m	10+
T0107	T164 P	Lawson cypress	16	280	1	1	1	1	2m north	Good	A mature cypress	M	No works required	No impact	C2	4m	20+
T0108	T165 P	Monterey cypress	10	250	3	3	2	2	2m north	Fair	Monterey cypress	M	No works required	No impact	B2	3.5m	10+
T0109	T166 P	Lawson cypress	8	200	1	1	1	1	1m North	Fair	A Lawson cypress hedge	EM	No works required	No impact	C2	3m	10+
T0110	T11 x 2 P	<i>Shrubbery Sumac Ligustrum Lucidum Privet</i>	2	50	0.5	0.5	0.5	0.5	0.5m East	Fair	A multi-stemmed semi- mature Shrubbery containing Sumac and Privet displaying over all fair condition. This shrubbery is on property 150 Rathfarnham Road.	SM	No works required	No impact	B2	1.5m	20+
T0111	T12 X 2 P	Cabbage Palm & Cherry	3	150	0.5	0.5	0.5	0.5	0.5 East	Fair	Represents 2 semi- mature tress	SM	No works required	No impact	C2	2.5m	10+
T0112	7425	Holm oak	16	400	3	3	3	3	.5m south	good	A multi-stemmed cluster of holm oak A multi-stemmed cluster	M	No works required	No impact	B2	5m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0113	7426	Holm oak	16	400	3	3	3	3	.5m south	good	A multi-stemmed cluster of holm oak	M	No works required	No impact	B2	5m	20+
T0114	7427 x5	Norway maple	16	300	3	3	3	3	2m south	Good	A cluster of mature maples A group of eucalyptus, silver birch, Lawson	M	No works required	No impact	B2	4m	20+
T0115	7438	Sweet chestnut walnut, Sycamore, willow, cotoneaster	12	300	2	2	2	2	1m east	Good	A group of mixed deciduous trees in good condition	M	No works required	No impact	B2	4m	20+
T0116	7439 x2	Sycamore x 2	16	350	3	3	3	3	2m east	Good	Two multi-stemmed sycamore	M	No works required	No impact	B2	4.5m	20+
T0117	T167 P	Beech	22	500	3	3	3	3	2m north	Good	A large mature Beech	M	No works required	No impact	A2	6m	20+
T0118	T14 P	<i>Fraxinus Ash</i>	20	350	4	4	4	4	5m South	Good	A large mature Ash displaying over all good condition. This tree is located in front garden of 122 Rathfarnham Road.	M	No works required	No impact	B2	4.5m	20+
T0119	T140 x 9 P	Sycamore	20	600	4	4	4	4	2m South	Good	Group of large mature sycamores 7 of which are to be removed	M	Remove to facilitate works	7 to be removed to facilitate works	B2	7m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0120	T15 P	Cherry	5	220	2	2	2	2	2m North	Good	An early mature Cherry displaying over all good condition. This tree is located in the front garden of 118 Rathfarnham Road.	EM	No works required	No impact	C2	3.2m	10+
T0121	T16 P	Cherry	5	240	3	3	3	3	1m East	Good	An early mature Cherry displaying over all good condition. This tree is located outside 65 Rathfarnham Road	EM	To be removed to facilitate works	To be removed to facilitate works	C2	3.4m	10
T0122	T13 P		24	500 (circa)	4	4	6	4	3m East	Good	A large mature Oak displaying over all good condition. This tree is located in the front garden of 71 Rathfarnham Road.	M	No works required	No impact	A2	6.0m (circa)	40+
T0123	7440 x4	Ash x 4	20	400	3	3	3	3	2m south	Fair	A row of 4 ash in decline	M	Consider for removal	No impact	C2	5m	10+
T0124	7430 x 3	Poplar	28	700	4	4	4	4	2m south	Good	A group of three Poplars not appropriate for their location	OM	Consider for removal	No impact	C2	8m	10+
T0125	7431 x 9	Sycamore	10	280	2	2	2	2	2m east	Good	A group of early matures sycamores	M	Selective thinning required	No impact	B2	3.8m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0126	7432 x 2	Poplar	24	700	4	4	4	4	3m south	Fair	3 large poplars not appropriate for their location	M	Consider for removal	No impact	C2	8m	10+
T0127	7428	Sycamore	24	1000	6	6	6	6	8m south	Good	A large mature sycamore	M	No works required	No impact	A2	11m	20+
T0128	7429 x 15	Norway maple	14	300	2	2	2	2	3m south	Good	A group of mature Norway maples	M	No works required	No impact	B2	4m	20+
T0129	7434- 35 x 15	Norway maple	14	250	2	2	2	2	2m North	Good	A row of early mature maples	EM	No works required	No impact	B2	3.5m	20+
T0130	Group 4	Mixed species	18	400	2	2	2	2	1m south	Good	A group of eucalyptus, silver birch, Lawson cypress. Good amenity and screening value	M	No works required	No impact	B2	5m	20+
T0131	T8 P	Laburnum	3	100	3	3	3	3	3m North (circa)	Good	Early Mature Laburnum	M	No works required	No impact	B2	-	20+
T0132	T17 x 3 P	<i>Carpinus</i> <i>Betulus</i> <i>Hornbeam</i> <i>Shrubbery</i> <i>Sumac</i> <i>Pittosporum</i> <i>Tenuifolium</i> <i>Pittosporum</i>	4	200 (circa)	1	1	1	1	1m South	Good	Represents 3 semi-mature trees displaying over all good condition. Consists of a Hornbeam, a Sumac, a Pittosporum and some Shrubbery. These trees are located in the front garden of 63 Rathfarnham Road.	SM	No works required	2 To be removed to facilitate works	B2	3.0m (circa)	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0133	T18 P	Cherry	5	160	2	2	2	2	1m East	Fair	An early mature Cherry A semi-mature Cherry displaying over all fair condition. This tree is showing evidence of decline. This tree is located between house numbers 57 and 59	EM	No works	No impact	C2	2.6m	10+
T0134	T19 P	Cherry	3	110	2	2	2	2	0.5m East	Fair	A semi-mature Cherry displaying over all fair condition. This tree is showing evidence of decline. This tree is located between house numbers 57 and 59 Rathfarnham Road.	SM	To be removed to facilitate works	To be removed to facilitate works	C2	2.1m	10+
T0135	T20 P	Horse Chestnut	18	580	3	3	3	3	3m North	Good	A large mature Horse Chestnut displaying over all good condition. This tree is located outside 104 Rathfarnham Road.	M	No works required	No impact	A2	6.8m	20+
T0136	T21 P	Horse Chestnut	18	580	3	3	3	3	3m North	Good	A large mature Horse Chestnut displaying over all good condition. This tree is located outside 98 Rathfarnham Road	M	No works required	No impact	A2	6.8m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0137	T22 P	Horse Chestnut	18	580	3	3	3	3	3m North	Good	A large mature Horse Chestnut displaying over all good condition. This tree is located outside 96 Rathfarnham Road.	M	No works required	No impact	A2	6.8m	20+
T0138	T23 P	Horse Chestnut	18	580	3	3	3	3	3m North	Good	A large mature Horse Chestnut displaying over all good condition. This tree is located outside 94 Rathfarnham Road	M	No works required	No impact	A2	6.8m	20+
T0139	T24 x 2 P	Sycamore	22	600	4	4	4	4	3m East	Good	Represents 2 large mature Sycamore displaying over all good condition. These trees are located in front garden of 90 Rathfarnham Road.	M	No works required	No impact	B2	7.0m	20+
T0140	T25 P	Lime	4		4	4	4	4	1m East	Good	A semi-mature Lime displaying over all good condition. This tree is located within the front garden of 43 Rathfarnham Road.	SM	No works required	No impact	C2		10+
T0141	T26 x 2 P	Salix Babylonica Weeping Willow Cherry	18	500 (circa)	3	3	3	3	2m East	Good	Represents 2 large mature 1. Weeping Willow and 1. Cherry displaying over all good condition. These trees are located outside 50 Rathfarnham Road.	M	No works required	No impact	A2	6.0m (circa)	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0142	T27 X 3 P	Silver Birch	14	220	2	2	2	2	3m East	Good	Represents 3 early mature Silver Birch displaying over all good condition.	EM	To be removed to facilitate works	To be removed to facilitate works	B2	3.2m	20+
T0143	5927 x2	Lime	8	260	3	3	2	2	3m East	Fair	Two early mature Lime displaying over all fair condition	EM	To be removed to facilitate works	To be removed to facilitate works	C2	3.6m	10
T0144	5929	Sycamore	18	630	3	3	3	3	3m East	Fair	A large mature Sycamore displaying over all fair condition. This tree is showing evidence of decline	M	To be removed to facilitate works	To be removed to facilitate works	C2	7.3m	10+
T0145	5983	Oak	10	140	0.5	0.5	0.5	0.5	2m North	Good	A semi-mature Oak displaying over all poor condition. This tree is in advanced decline	SM	No works required	No impact	C2	2.4m	<10
T0146	5930 x 3	Lime	12	320	2	2	2	2	3m North	Good	Represents 3 mature Lime displaying over all good condition	M	To be removed to facilitate works	To be removed to facilitate works	B2	4.2m	20+
T0147	5931	Lime	10	290	2	2	2	2	2m East	Good	A mature Lime displaying over all good condition	M	To be removed to facilitate works	To be removed to facilitate works	B2	3.9m	20+
T0148	5932	Lime	10	290	2	2	2	2	2m East	Good	A mature Lime displaying over all good condition	M	No works required	No impact	B2	3.9m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0149	Group 6	Mixed deciduous group	4	200	1.5	1.5	1.5	1.5	2m East	Good	A mixed deciduous group of approximately 50 trees along Rathdown Park and the surrounding streets	EM	No works required	No impact	B2	2.5m	20+
T0150	T173 x2 *P	Holm oak & sycamore	14	350	2	2	2	2	1m South	Good	Mature Holm Oak and sycamore in the grounds of St. Josephs BNS	M	No works required	No impact	B2	4.5m	20+
T0151	T41 x 3 P	Hornbeam	5	150	1	1	1	1	0.5m East	Good	Represents 3 semi-mature Hornbeam displaying over all good condition. These trees are located within the front garden of 78 Terenure Road East.	SM	No works required	No impact	B2	2.5m	20+
T0152	T42 P	<i>Betula Jacquemonti</i> <i>Birch</i>	5	180	1	1	1	1	2m East	Good	A semi-mature Jacquemonti Birch displaying over all good condition.	SM	No works required	No impact	B2	2.8m	20+
T0153	T43 P	Norway Maple Crimson King	12	280	2	2	2	2	2m South	Good	A mature Norway Maple Crimson King displaying over all good condition. This tree is located in 8 Terenure Road East.	M	No works required	No impact	B2	3.8m	20+
T0154	T142 P	Oak	10	400	3	3	3	3	1m South	Good	Mature Oak in the garden of 76 Terenure Road East	M	Remove to facilitate works	To be removed to facilitate works	B2	5m	20+
T0155	5935	Norway Maple	6	300	2	2	2	2	2m East	Fair	A semi-mature Norway Maple displaying over all fair condition	SM	No works required	No impact	C2	4.0m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0156	5936	Sycamore	20	560	4	4	4	4	4m East	Good	A large mature Sycamore displaying over all good condition	M	To be removed to facilitate works	To be removed to facilitate works	B2	6.6m	20+
T0157	5937	Ash	22	600	4	4	4	4	5m East	Good	A large mature Ash displaying over all good condition.	M	To be removed to facilitate works	To be removed to facilitate works	B2	7.0m	20+
T0158	5938	Sycamore	24	600	4	4	4	4	3m South	Good	A large mature Sycamore displaying over all good condition	M	To be removed to facilitate works	To be removed to facilitate works	B2	7.0m	20+
T0159	5939	Sycamore	24	600	4	4	4	4	3m South	Good	A large mature Sycamore displaying over all good condition	M	To be removed to facilitate works	To be removed to facilitate works	B2	7.0m	20+
T0160	5940 *P	Sycamore	18	350	2	2	4	4	3m East	Fair	A mature multi-stemmed Sycamore displaying over all fair condition	M	To be removed to facilitate works	To be removed to facilitate works	C2	4.5m	20
T0161	5942 P	Norway Maple	16	400	3	3	3	3	3m North	Good	A large mature Norway Maple displaying over all good condition	M	No works required	No impact	B2	5.0m	20+
T0162	T174 P	Laurel	3	150	1	1	1	1	0.5m North	Good	Laurel displaying overall good condition	M	Remove to facilitate works	To be removed to facilitate works	C2	2.5m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0163	T45 P	Cedar	24	800 (circa)	4	4	4	4	5m East	Good	A large mature Cedar displaying over all good condition. Fantastic specimen. This tree is located at 67 Terenure Road East.	M	No works required	No impact	A2	9.0m (circa)	40+
T0164	T47 P	<i>Macrocarpa</i> Monterey Cypress	24	1000	3	3	3	3	2m North	Good	A large mature Monterey Cypress displaying over all good condition	M	To be removed to facilitate works	To be removed to facilitate works	B2	11.0m	40+
T0165	T48 P	Ash	14	400	2	2	2	2	2m East	Good	A large mature Ash displaying over all good condition	M	No works required	No impact	B2	5.0m	20+
T0166	T49 P	Yew	10	380	3	3	3	3	2m South	Good	A mature Yew displaying over all good condition	M	To be removed to facilitate works	To be removed to facilitate works	A2	4.8m	40+
T0167	T34 P	<i>Laurus Nobilis</i> Bay Tree	6	100	2	2	2	2	1m East	Good	A mature multi-stemmed Bay displaying over all good condition	M	No works required	No impact	B2	1m	20+
T0168	T35 P	Cherry	4	120 (circa)	1	1	1	1	0.5m East	Good	A multi-stemmed semi- mature Cherry displaying over all good condition. This tree is located outside 64A Terenure Road East.	SM	No works required	No impact	C2	2.2m (circa)	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0169	T36 P	Silver Birch	6	110 (circa)	1	1	1	1	0.5m East	Good	A semi-mature Silver Birch displaying over all good condition	SM	No works required	No impact	C2	2.1m (circa)	20+
T0170	T37 P	Weeping Willow	4	200 (circa)	2	2	2	2	2m East	Good	A semi-mature Weeping Willow displaying over all good condition. This tree is located in 72 Terenure Road East.	SM	No works required	No impact	B2	3.0m (circa)	20+
T0171	T38 P	Oak	10	340 (circa)	3	3	3	3	2m South	Good	A mature multi-stemmed Oak displaying over all good condition. This tree is located in the front garden of 76 Terenure Road East.	M	To be removed to facilitate works	To be removed to facilitate works	B2	4.4m (circa)	20+
T0172	T38B P	<i>Ilex</i> Holly	3.5	80	1.5	1.5	1.5	1.5	1.5m West	Good	An early mature Holly displaying overall good condition. This tree is located in the front garden of 76 Terenure Road East.	EM	To be removed to facilitate works	To be removed to facilitate works	C2	1.8m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0173	T39 P	<i>Ilex Holly</i>	5	240	2	2	2	2	1m South	Fair	An early mature Holly displaying over all fair condition. The upper canopy has been heavily pruned to accommodate overhead wires. This tree is located in the front garden of 76A Terenure Road East.	EM	To be removed to facilitate works	To be removed to facilitate works	C2	3.4m	10+
T0174	T40 x 2 *P	<i>Fagus Sylvatica</i> <i>Copper Beech</i> <i>Laurus Nobilis</i> <i>Laurel</i>	12	110	1	1	1	1	2m East	Good	Represents 2 trees, a semi-mature Copper Beech and a Laurel displaying over all good condition. These trees are located within the front garden of 78 Terenure Road East.	SM	To be removed to facilitate works	To be removed to facilitate works	B2	2.1m	20+
T0175	T50 P	Apple	4	300	3	3	3	3	0.5m North	Good	A mature Apple displaying over all good condition.	M	To be removed to facilitate works	To be removed to facilitate works	C2	4.0m	10+
T0176	T33 P	<i>Malus Domestica</i> <i>Apple Tree</i>	3	120	1	1	1	1	0.5m East	Good	A semi-mature Apple displaying over all good condition	SM	No works required	No impact	C2	2.2m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0177	T28 P	Horse Chestnut	16	650 (circa)	4	4	4	4	3m North	Good	A large mature Horse Chestnut displaying over all good condition. This tree has been heavily pruned in the lower canopy but maintains good condition. This tree is located on private property on 50 Terenure Road East	M	No works required	No impact	B2	7.5m (circa)	20+
T0178	T29 P	Sycamore	16	360	3	3	3	3	5m North	Fair	A mature multi-stemmed Sycamore displaying over all fair condition. This tree is located on private property	M	No works required	No impact	C2	4.6m	10+
T0179	T30 P	<i>Taxus Baccata</i> Yew	14	600	4	4	4	4	3m East	Good	A large mature Yew displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	7.0m	40+
T0180	T31 P	<i>Araucaria Araucana</i> Monkey Puzzle	12	400 (circa)	3	3	3	3	8m East	Good	A large mature Monkey Puzzle displaying over all good condition	M	No works required	No impact	A2	5.0m (circa)	40+
T0181	T32 P	<i>Sequoia Sempervirens</i> Redwood	30	1500	4	4	4	4	3m East	Good	A very large mature Redwood displaying over all good condition. Fantastic specimen To the rear of this tree there is a Strawberry tree (<i>Arbutus Unedo</i>) displaying over all good condition. This is an outstanding tree and is A2 category.	M	No works required	No impact	A2	12.0m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0182	T70 x 7 P	Norway Maple Crimson King	16	280	2	2	2	2	2m East	Good	Represents a group of 7 mature Norway Maple Crimson King displaying over all good condition. These trees are located within the grounds of an apartment complex	M	No works required	No impact	B2	3.8m	20+
T0183	T170 x 2 P	Sycamore x 2	26	500	3	3	3	3	2m north	Good	Two large mature sycamores in private property	M	No works required	No impact	B2	6m	20+
T0184	T68 P	Sycamore	20	400 (Circa)	4	4	4	4	2m East	Good	A large mature multi-stemmed Sycamore displaying over all good condition	M	No works required	No impact	B2	5.0m (Circa)	20+
T0185	T62 P	Birch	10	250	2	2	2	2	1m North	Good	mature Birch displaying over all good condition	M	No works required	No impact	B2	3.5m	20+
T0186	T63 x 2 P	Birch	10	200	2	2	2	2	1m North	Good	Represents 2 semi-mature Birch displaying over all good condition	SM	No works required	No impact	B2	3.0m	20+
T0187	T64 P	Silver Birch	6	180	1	1	1	1	1m North	Good	A semi-mature Silver Birch displaying over all good condition	SM	No works required	No impact	B2	2.8m	20+
T0188	T65 P	Silver Birch	4	75	1	1	1	1	1m North	Good	A semi-mature Silver Birch displaying over all good condition	SM	No works required	No impact	C2	1m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0189	T66 P	Juglans Walnut	7	240	2	2	2	2	1m North	Good	An early mature Walnut displaying over all good condition	EM	No works required	No impact	B2	3.4m	20+
T0190	T67 P	Lime	24	500	4	4	4	4	2m East	Good	A large mature Lime displaying over all good condition	M	No works required	No impact	B2	6m	20+
T0191	T60 x 4 P	Mountain Ash Purple Plum Cherry Sumac	12	200	2	2	2	2	1m North	Fair	Represents a row of 4 mature mixed deciduous trees containing Mountain Ash, Cherry, Purple Plum and Sumac displaying over all fair condition.	M	No works required	No impact	C2	3m	10+
T0192	T58 P	Yew	12	60	4	4	4	4	3m North	Good	A large mature multi-stemmed Yew displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	0.7m	40+
T0193	T59 x 6 P	Silver Birch	8	110	1	1	1	1	2m North	Good	Represents a row of 6 semi-mature Silver Birch displaying over all good condition	SM	No works required	No impact	B2	2.1m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0194	T175 P	Whitebeam	3	120	1	1	1	1	1m North	Good	Semi Mature Whitebeam	SM	No works required	No impact	C2	2.2m	20+
T0195	T52 P	Sycamore	28	1100	4	4	4	4	6m North	Good	A large mature multistemmed Sycamore displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	12.0m	40+
T0196	T53 P	Lime	24	700	4	4	4	4	3m North	Good	A mature Lime displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	8.0m	40+
T0197	T55 P	Copper Beech	24	1100	8	8	8	8	3m North	Good	A large mature Copper Beech displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	12.0m	20+
T0198	T56 P	Sycamore	16	380	2	2	2	2	3m East	Good	Represents 2 mature Sycamore displaying over all good condition.	M	No works required	No impact	B2	4.8m	20+
T0199	T54 P	Lime	18	360	4	4	4	4	2m South	Good	A mature multi-stemmed Lime displaying over all good condition. This tree is located in the front garden of 33 Terenure Road East.	M	No works required	No impact	B2	4.6m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0200	T57 P	Whitebeam	6	110	2	2	2	2	1m North	Good	A semi-mature Whitebeam displaying over all good condition	SM	No works required	No impact	B2	2.1m	20+
T0201	T51 P	Sycamore	12	340	3	3	3	3	3m North	Fair	A mature Sycamore displaying over all fair condition.	M	No works required	No impact	C2	4.4m	10+
T0202	5941 P	Copper Beech	22	840	4	4	4	4	4m North	Good	A large mature Copper Beech displaying over all good condition	M	To be removed to facilitate works	To be removed to facilitate works	A2	9.4m	40+
T0203	5943 P	London Plane	26	1000	5	5	5	5	4m South	Good	A large mature London Plane displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	11.0m	40+
T0204	5944 P	Lime	22	620	4	4	4	4	3m South	Good	A large mature Lime	M	No works required	No impact	A2	7.2m	40+
T0205	5945 P	Lime	22	620	4	4	4	4	3m South	Good	A large mature Lime displaying over all good condition	M	No works required	No impact	A2	7.2m	40+
T0206	5946 P	Liriodendron Tulipifera Tulip tree	12	320	3	3	3	3	3m South	Good	A mature Tulip tree displaying over all good condition	M	No works required	No impact	B2	4.2m	40+
T0207	5947 P	Hornbeam	10	320	2	2	2	2	2m South	Good	A mature Hornbeam displaying over all good condition	M	No works required	No impact	B2	4.2m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0208	5948 P	Fagus Beech	16	340	2	2	2	2	2m East	Good	A mature Beech displaying over all good condition	M	No works required	No impact	B2	4.4m	20+
T0209	5949 P	Cherry	12	300	3	3	3	3	2m South	Good	A mature Cherry displaying over all good condition	M	No works required	No impact	B2	4.0m	20+
T0210	5950 P	Hornbeam	10	360	3	3	3	3	1m South	Good	A mature Hornbeam displaying over all good condition	M	No works required	No impact	B2	4.6m	20+
T0211	5951 P	Norway Maple Crimson King	8	190	3	3	3	3	2m South	Good	An early mature Norway Maple Crimson King displaying over all good condition	EM	No works required	No impact	B2	2.9m	20+
T0212	5952 P	Yew	12	560	3	3	3	3	4m East	Good	A large mature co-dominant Yew displaying over all good condition	M	No works required	No impact	A2	6.6m	40+
T0213	5953 P	Jacquemonti Birch	6	180	1	1	1	1	1m North	Good	Represents 3 semi-mature Jacquemonti Birch displaying over all good condition	SM	No works required	No impact	B2	2.8m	20+
T0214	5954 x3 P	London Plane	24	750	4	4	6	6	4m North	Good	3 mature London Planes displaying over all good condition	M	No works required	No impact	A2	8.5m	40+
T0215	5955	London Plane	24	750	4	4	6	6	4m North	Good	A large mature London Plane displaying over all good condition	M	No works required	No impact	A2	8.5m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0216	5956	London Plane	24	750	4	4	6	6	4m North	Good	A large mature London Plane displaying over all good condition	M	No works required	No impact	A2	8.5m	40+
T0217	5957	London Plane	24	750	4	4	6	6	4m North	Good	A large mature London Plane displaying over all good condition	M	No works required	No impact	A2	8.5m	40+
T0218	T71 x 7 P	Mountain Ash	10	220	2	2	2	2	1m East	Good	Represents 7 mature Mountain Ash trees displaying over all good condition	M	No works required	No impact	B2	3.2m	20+
T0219	T72 P	Oak	24	600	4	4	4	4	3m North	Good	A large mature Oak displaying over all good condition.	M	No works required	No impact	A2	7.0m	40+
T0220	T73 P	Silver Birch	16	380	2	2	2	2	1m North	Good	A large mature Silver Birch displaying over all good condition	M	No works required	No impact	B2	4.8m	20+
T0221	T74 P	Silver Birch	18	340	3	3	3	3	3m North	Good	A large mature Silver Birch displaying over all good condition	M	No works required	No impact	B2	4.4m	20+
T0222	T75 P	<i>Laburnum Anagyroides</i> Laburnum	4	80	1	1	1	1	1m North	Good	An early mature multi-stemmed Laburnum displaying over all good condition	EM	No works required	No impact	C2	0.9m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0223	T76 P	Cherry	10	200	1	1	1	1	1m East	Fair	A mature multi-stemmed Cherry displaying over all fair condition	M	No works required	No impact	C2	3m	10+
T0224	T77 P	Ulmus Elm	16	400	4	4	6	6	3m East	Good	A mature co-dominant Elm displaying over all good condition	M	No works required	No impact	B2	5.0m	20+
T0225	T78 P	Silver Birch	20	300	3	3	3	3	1m North	Good	A large mature Silver Birch displaying over all good condition	M	No works required	No impact	B2	4.0m	20+
T0226	T79 P	Ash	8	200	2	2	2	2	3m North	Good	Represents a mixed deciduous group of mature Ash, Cherry and some Shrubbery displaying over all good condition. The Ash is the only tree of any significance in the property.	M	No works required	No impact	B2	3.0m	20+
T0227	T80 P	Holly	8	280	1	1	1	1	2m North	Fair	A mature Holly displaying fair condition	M	No works required	No impact	C2	3.8m	20+
T0228	T81 P	Sycamore	10	200	1	1	1	1	1m East	Fair	An early mature Sycamore displaying over all fair condition. This tree is in decline in the upper canopy	EM	Consider for removal	No Impact	C2	3.0m	10+
T0229	T82 P	Cherry	10	200	4	4	3	3	2m North	Good	A mature Cherry displaying over all good condition	M	No works required	No impact	B2	3m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0230	T83 P	Purple Plum	8	180	2	2	2	2	0.5m North	Fair	A mature multi-stemmed Purple Plum displaying over all fair condition	M	No works required	No impact	C2	2.8m	10+
T0231	T83B P	Cherry	6	300	3	3	3	3	1m East	Good	A mature Cherry displaying over all good condition	M	No works required	No impact	B2	3m	20+
T0232	T84 P	Ash	14	280	4	4	4	4	2m North	Good	A large mature Ash displaying over all good condition	M	No works required	No impact	B2	3.8m	20+
T0233	T85 P	Sycamore	18	340	3	3	3	3	2m North	Good	A mature Sycamore displaying over all good condition	M	No works required	No impact	B2	4.4m	20+
T0234	T86 P	Ash	18	380	4	4	4	4	3m North	Good	A large mature Ash displaying over all good condition	M	No works required	No impact	B2	4.8m	20+
T0235	T87 P	Laburnum	5	100	2	2	2	2	1m East	Good	A mature multi-stemmed Laburnum displaying over all good condition	M	No works required	No impact	C2	2.0m	10+
T0236	T89 P	Sycamore	24	950	6	6	6	6	4m East	Good	A large mature Sycamore displaying over all good condition	M	No works required	No impact	A2	10.5m	40+
T0237	T88 P	Norway Maple	12	250	3	3	2	2	1m North	Fair	Represents 3 mature Norway Maple displaying over all fair condition. These trees are showing evidence of decline	M	No works required	No impact	C2	3.5m	10+
T0238	T90 x3 P	Sycamore	8	220	2	2	2	2	1m East	Fair	Represents a row of 3 EM sycamores	M	No works required	No impact	B2	3.2m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0239	T91 P	Purple Plum	6	180	3	3	3	3	2m East	Fair	An early mature Purple Plum displaying over all fair condition	EM	No works required	No impact	C2	2.8m	10+
T0240	T92 X 4	Hornbeam	12	240	1.5	1.5	1.5	1.5	1m North	Good	Represents 4 mature hornbeam	M	No works required	No impact	B2	3.4m	20+
T0241	T93	Quercus Cerris Turkey Oak	20	380 (circa)	4	4	4	4	2m North	Good	A large mature Turkey Oak displaying over all good condition	M	No works required	No impact	A2	4.8m (circa)	40+
T0242	T94 x 4 P	Silver Birch Lime Mountain Ash Holly	22	340 (circa)	3	3	3	3	2m East	Good	Represents 4 mature trees, 1 Silver Birch, 1 Lime, 1 Mountain Ash and 1 Holly displaying over all good condition	M	No works required	No impact	B2	4.4m (circa)	20+
T0243	T95 P	Cherry	12	420	6	6	4	4	1m East	Fair	A large mature Cherry displaying over all fair condition. This tree is showing evidence of decline	M	No works required	No impact	C2	5.2m	10
T0244	T96 P	Cherry	8	180	4	4	3	3	0.5m North	Fair	An early mature multi-stemmed Cherry displaying over all fair condition. This tree is showing evidence of decline	EM	No works required	No impact	C2	2.8m	10

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0245	T97 x2 P	Sycamore	18	360	3	3	3	3	1m North	Good	Represents 2 mature Sycamore displaying over all good condition	M	No works required	No impact	B2	4.6m	20+
T0246	T99 P	Cherry	8	180	4	4	3	3	0.5m North	Fair	An early mature multi-stemmed Cherry displaying over all fair condition. This tree is showing evidence of decline	EM	No works required	No impact	C2	2.8m	10
T0247	T99B P	Holm Oak	5	200	3	3	3	3	0.5m North	Good	A co-dominant Holm Oak displaying overall good condition	M	No works required	No impact	C2	3.0m	10+
T0248	T100 P	Ash	8	260	2	2	2	2	1m North	Fair	A mature Ash displaying over all fair condition. This tree is heavily suppressed with Ivy	M	No works required	No impact	C2	3.6m	10+
T0249	T102 x 7 P	Mountain Ash	5	150	1	1	1	1	2m North	Fair	Represents a row of 7 semi-mature Mountain Ash displaying over all fair condition. The second tree in this row is dead and can be removed, the other trees are showing evidence of decline	SM	Remove the dead tree	No impact	C2	2.5m	10
T0250	T103 P	Lime	14	300	2	2	2	2	4m North	Good	A mature Lime displaying over all good condition	M	No works required	No impact	B2	4.0m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0251	T104 P	Holly	6	150	1	1	1	1	1m North	Good	An early mature multi-stemmed Holly displaying over all good condition	EM	No works required	No impact	B2	2.5m	20+
T0252	T106 P	Cherry	5	150	1	1	1	1	1m North	Fair	A semi-mature Cherry displaying over all fair condition	SM	No works required	No impact	C2	2.5m	10+
T0253	T107 P	Monkey Puzzle	22	500	3	3	3	3	6m North	Good	A large mature Monkey Puzzle displaying over all good condition	M	No works required	No impact	A2	6.0m	20+
T0254	T108 P	<i>Acer Saccharinum</i> Silver Maple	16	280	3	3	3	3	1m North	Fair	A mature multi-stemmed Silver Maple displaying over all fair condition. This tree is growing in the wrong location	M	No works required	No impact	C2	3.0m	10+
T0255	T109 P	Ash	6	150	1	1	1	1	1m North	Fair	Early mature ash	EM	No works required	No impact	C2	2.5	10+
T0256	5958	Lime	24	450	3	3	3	3	3m North	Good	A large mature Lime displaying over all good condition	M	No works required	No impact	B2	5.5m	20+
T0257	T144	Sycamore	14	280	3	3	2	2	2m South	Good	Multistemmed sycamore in private garden.	M	No works required	No impact	B2	3.8m	20+
T0258	T145	Cherry	6	100	1	1	1	1	1m South	Fair	Semi-mature cherry in private garden	SM	No works required	No impact	C2	2m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0259	T111 P	Chamaecyparis Lawsoniana Lawson Cypress	20	340	2	2	2	2	2m East	Good	A large mature Lawson Cypress displaying over all good condition	M	No works required	No impact	B2	4.4m	20+
T0260	T109 – T110 x 8 *P	Sycamore	16	380	3	3	4	4	2m East	Good	Represents a row of 8 mature Sycamore displaying over all good condition. These are located within the apartment complex known as Rathgar Court.	M	No works required	No impact	B2	4.8m	20+
T0261	T12 P	Lawson Cypress	3	150	0.5	0.5	0.5	0.5	0.5 East	Fair	Represents semi-mature tree displaying overall fair condition	SM	No works required	No impact	C2	2.5m	10+
T0262	T113 x 3 P	Purple Plum Silver Birch	10	200	2	2	2	2	1m North	Good	Represents a group of 3 semi-mature trees, 1 Purple Plum and 2 Silver Birch displaying over all good condition	SM	No works required	No impact	B2	3.0m	20+
T0263	T158 x4 P	Mixed deciduous cluster	12	200	1	1	1	1	2m east	Good	Mixed deciduous cluster	EM	No works required	No impact	C2		10+
T0264	T159 P	Sycamore	16	300	3	3	3	3	3m south	Good	Early Mature Sycamore	EM	No works required	No impact	B2		20+
T0265	T116 P	Yew	6	250	3	3	3	3	1m North	Good	Multistemmed mature yew tree	M	No works required	No impact	B2	3.5m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0266	5959	Sycamore	6	120	1	1	1	1	2m North	Good	Early Mature Sycamore	EM	No works required	No impact	C2	2.2m	10
T0267	5960 x2	Acer Campestre Field Maple	8	230	3	3	3	3	3m North	Good	2 early mature Field Maple displaying over all good condition	EM	No works required	No impact	B2	3.3m	20+
T0268	5961	Sycamore	24	920	6	6	6	6	3m North	Good	A large mature Sycamore displaying over all good condition	M	No works required	No impact	A2	10.2m	40+
T0269	5962	Sycamore	24	800	4	4	4	4	4m North	Good	A large mature multi-stemmed Sycamore displaying over all good condition	M	No works required	No impact	A2	9.0m	20+
T0270	T146 P	Sycamore	6	300	1	1	1	1	2m South	Fair	Mature sycamore in private garden	M	No works required	No impact	C2	3m	10+
T0271	Topo Group 2	Horse Chestnut	16	550	3	3	3	3	2m South	Good	Group of large mature Horse Chestnut displaying overall good condition	M	No works required	No impact	A2	6.5m	20+
T0272	Group 2 x 15 P	Aesculus Hippocastanum Red Horse Chestnut Beech Salix Willow Sycamore Elm	20	400	3	3	3	3	2m North	Good	Represents a group of 15 large mature mixed deciduous trees displaying over all good condition. Group consists predominantly of Red Horse Chestnut, Beech, Elm, Willow	M	No works required	No impact	A2	5.0m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
											and Sycamore. These trees are located within the grounds of St. Marys College.						
T0273	T117 x 2 P	Mountain Ash	3	100	0.5	0.5	0.5	0.5	1m North	Good	Represents 2 semie mature mountain ash	SM	No works required	No impact	C2	2m	10+
T0274	T118 P	Holly	8	400	2	2	2	2	2m North	Good	A mature Holly displaying over all good condition. This tree is located within the grounds of St. Mary Immaculate Church	M	No works required	No impact	B2	5.0m	20+
T0275	5963 P	Hornbeam	8	270	2	2	2	2	2m North	Fair	A mature Hornbeam displaying over all fair condition. The eastern canopy of this tree has been negatively pruned to facilitate passing buses.	M	No works required	No impact	C2	3.7m	10+
T0276	5964	Hornbeam	8	270	2	2	2	2	2m North	Fair	A mature Hornbeam displaying over all fair condition. The eastern canopy of this tree has been negatively pruned to facilitate passing buses	M	No works required	No impact	C2	3.7m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0277	5965	Lime	6	270	1	1	1	1	2m North	Fair	An early mature Lime displaying over all fair condition. This tree has suffered some limb damage in the mid canopy	EM	No works required	No impact	C2	3.7m	10
T0278	5966	Hornbeam	10	260	1	1	1	1	1m East	Fair	A mature Hornbeam displaying over all fair condition. The eastern side of this tree has been negatively pruned to facilitate passing buses. This tree has also significant root surfacing occurring so is no longer viable for retention	M	Consider for Removal	No impact	C2	3.6m	10+
T0279	5967	Hornbeam	10	260	1	1	1	1	1m East	Fair	A mature Hornbeam displaying over all fair condition. The eastern side of this tree has been negatively pruned to facilitate passing buses. This tree has also significant root surfacing occurring so is no longer viable for retention	M	Consider for removal	No impact	C2	3.6m	10+
T0280	5968 x2	London Plane	24	920	4	4	4	4	5m East	Good	Two large mature London Planes displaying over all good condition	M	No works required	No impact	A2	10.2m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0281	T162 P	Sycamore	18	340	3	3	3	3	1m North	Good	A large mature multi-stemmed Sycamore displaying over all good condition.	M	No works required	No impact	B2	4.4m	20+
T0282	T120 P	Crataegus Monogyna Hawthorn	6	110	1	1	1	1	1m North	Good	A semi-mature Hawthorn displaying over all good condition	SM	No works required	No impact	B2	2.1m	20+
T0283	T121 P	Hawthorn	6	110	1	1	1	1	1m North	Good	A semi-mature Hawthorn displaying over all good condition	SM	No works required	No impact	B2	2.1m	20+
T0284	T122 x2 P	Silver Birch	16	240	2	2	2	2	1m East	Good	Represents 2 mature Silver Birch displaying overall good condition	M	No works required	No impact	B2	3.4m	20+
T0285	T123 x2 P	Ash	24	600	4	4	4	4	3m North	Good	Two large mature Ash displaying over all good condition	M	No works required	No impact	A2	7.0m	20+
T0286	T171 x2 P	Ash	18	400	3	3	3	3	2m north	Good	2 large mature ash	M	No works required	No impact	B2	5m	20+
T0287	5969	London Plane	20	800	3	3	3	3	5m North	Good	A large mature London Plane displaying over all good condition	M	No works required	No impact	A2	9.0m	40+
T0288	5970	London Plane	26	800	3	3	4	4	5m East	Good	A large mature London Plane displaying over all good condition	M	No works required	No impact	A2	9.0m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0289	5971	Hornbeam	4	120	0.5	0.5	0.5	0.5	2m North	Good	A semi-mature Hornbeam displaying over all good condition	SM	No works required	No impact	C2	2.2m	20+
T0290	5982	Oak	10	140	0.5	0.5	0.5	0.5	2m North	Poor	A semi-mature Oak displaying over all poor condition. This tree is in advanced decline	SM	Consider for removal	No impact	C2	2.4m	<10
T0291	5981	Hornbeam	6	160	0.5	0.5	0.5	0.5	2m North	Good	A semi-mature Hornbeam displaying over all good condition.	SM	No works required	No impact	C2	2.6m	20+
T0292	5978	Oak	12	200	1	1	1	1	1m North	Fair	An early mature Oak displaying over all fair condition. This tree is growing within a steel frame	EM	No works required	No impact	C2	3.0m	10+
T0293	5972	Hornbeam	8	180	1	1	1	1	3m North	Good	A semi-mature Hornbeam displaying over all good condition	SM	No works required	No impact	B2	2.8m	20+
T0294	5973 x3	Hornbeam	8	180	1	1	1	1	3m North	Good	3 semi-mature Hornbeams displaying over all good condition	SM	No works required	Remove to facilitate works	B2	2.8m	20+
T0295	855	London plane	18	580	3	3	3	3	4m North	Good	A large mature plane	M	No works required	No impact	B2	6m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0296	856	London plane	18	580	3	3	3	3	4m North	Good	A large mature plane	M	No works required	No impact	B2	6m	20+
T0297	857	London plane	18	580	3	3	3	3	4m North	Good	A large mature plane	M	No works required	No impact	B2	6m	20+
T0298	858	London plane	18	580	3	3	3	3	4m North	Good	A large mature plane	M	No works required	No impact	B2	6m	20+
T0299	859	London plane	18	580	3	3	3	3	4m North	Good	A large mature plane	M	No works required	No impact	B2	6m	20+
T0300	860	London plane	18	580	3	3	3	3	4m North	Good	A large mature plane	M	No works required	No impact	B2	6m	20+
T0301	861	London plane	18	580	3	3	3	3	4m North	Good	A large mature plane	M	No works required	No impact	B2	6m	20+
T0302	862	London plane	18	580	3	3	3	3	4m North	Good	A large mature plane	M	No works required	No impact	B2	6m	20+
T0303	863	London plane	18	580	3	3	3	3	4m North	Poor	A large mature plane	M	Consider for Removal	To be removed	B2	6m	20+
T0304	5976-5977 x 11	Sycamore	18	230	2	2	2	2	4m North	Good	Represents 11 early mature Sycamore displaying over all good condition	EM	No works required	No impact	B2	3.3m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0305	5974 - 5975 x 5	Hornbeam	4	200	1	1	1	1	2m East	Fair	Represents 5 semi-mature Hornbeam displaying over all fair condition. These trees are growing within a steel cage frame and have outgrown the frame	SM	No works required	No impact	C2	3.0m	10+
T0306	T157 P	Lime	8	150	2	2	2	2	2m South	Good	Early mature lime	EM	No works required	No impact	B2	2.5m	20+
T0307	7443 x2	Hornbeam x 2	14	280	1	1	1	1	2m south	good	2 mature hornbeams in good condition	M	No works required	No impact	B2	3.8m	20+
T0308	7444 x4	Hornbeam x 4	14	280	1	1	1	1	2m south	good	A row of 4 mature hornbeam in good condition	M	No works required	No impact	B2	3.8m	20+
T0309	7446 x2	Hornbeam x2	12	250	1	1	1	1	2m south	good	A mature hornbeam in good condition	M	No works required	No impact	B2	3.8m	20+
T0310	T128 P	Sycamore	24	900	5	5	5	5	3m south	Good	A large mature sycamore of high amenity value	M	No works required	No impact	A2	10m	40+
T0311	T172 x 4 P	Hornbeam	8	180	1	1	1	1	2m north	Good	A row of 4 street trees	EM	No works required	No impact	B2	2.8m	20+
T0312	7445 x 2 P	Hornbeam	18	500	2	2	2	2	2m east	Good	Two large mature hornbeam	M	No works required	No impact	B2	6m	20+
T0313	7441 P	Ash	14	500	3	3	3	3	2m south	Fair	A mature ash in decline overhanging a carpark	M	Consider for removal	No impact	C2	6m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0314	7442 P	Ash	14	400	3	3	3	3	2m south	Poor	A mature ash in decline and infested with inonotus hispidus	M	No works required	No impact	U		<10
T0315	T130 P	Cabbage palm	10	200	1	1	1	1	4m east	Good	A mature cabbage palm	M	No works required	No impact	C2	3m	20+
T0316	7447	Hornbeam	8	260	1	1	1	1	2m south	Fair	A mature hornbeam there is considerable surface rooting	M	No works required	No impact	C2		10+
T0317	T131 *P	Sycamore	14	220	2	2	2	2	1m south	Good	a mature sycamore	M	No works required	No impact	B2	3.2m	20+
T0318	T132 P	cherry	8	200	3	3	2	2	2m North	Fair	A mature cherry	M	No works required	No impact	C2	3m	10+
T0319	7488- 7489 x4	Hornbeam x 4	8	200	1	1	1	2	2m North	Fair	A mature hornbeam there is considerable surface rooting	M	No works required	No impact	C2		10+
T0320	T133 P	Turkey oak	10	220	3	2	2	2	3m east	Good	An early mature oak	EM	No works required	No impact	B2	3.2m	20+
T0321	7450- 7451 x 6	Hornbeam	10	200	1	1	1	1	3m South	Good	A row of 6 alder, there is tarmac right up to the root flare, this should be removed to allow for root expansion	EM	Remove tarmac	No impact	B2	3m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0322	T134 P	Lime	10	200	2	2	2	2	2m east	Good	An early mature lime in good condition	EM	No works required	No impact	B2	3m	20+
T0323	T135 x4 *P	Horse chestnut x 4	20	600	2	2	4	4	4m east	Good	Four large mature chestnuts of high amenity value	M	No works required	No impact	A2	7m	20+
T0324	T136 P	Sycamore	6	400	4	4	4	4	2m south	Good	A large mature sycamore	M	Remove the ivy	No impact	B2	5m	20+
T0325	T137 P	Silver birch	12	300	2	2	2	2	2m south	Good	A mature birch	M	No works required	No impact	B2	4m	20+
T0326	T138 P	Sycamore	14	420	4	4	4	4	2m south	Good	A mature sycamore	M	No works required	No impact	B2	4m	20+
T0327	7452-53 x4	Hornbeam x 4	8	200	1	1	1	1	2m east	good	A row of 4 hornbeams that have suffered significant basal damage	M	Remove	Remove to facilitate works	C2		10+
T0328	7454 x 4 *P	Hornbeam	8	200	1	1	1	1	2m east	good	A row of 4 hornbeams that have suffered significant basal damage	EM	No works required	Remove 2 to facilitate the works	C2	3m	10+
T0329	T139 P	London plane	20	600	4	4	4	4	3m south	good	A large mature plane within church grounds	M	No works required	No impact	A2	7m	40+
T0330	7455	Hornbeam	8	200	1	1	1	1	2m east	good	A hornbeam that has suffered significant basal damage	EM	No works required (consider for removal)	No impact	C2	3m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
													due to condition)				
T0331	7456	Apple	6	200	2	2	2	2	2m east	Good	Mature apple tree	M	No works required	Remove to facilitate works	B2	3m	10+
T0332	Wasdale Park x70	Mixed deciduous group	4	200	1.5	1.5	1.5	1.5	2m East	Good	A mixed deciduous group of approximately 70 trees along Wasdale Park and the surrounding streets	EM	No works required	No impact	B2	2.5m	20+
T0333	7457 *	Horse Chestnut	8	200	2	2	2	2	2m West	Good	A mature Horse Chestnut located within the footpath on Orwell Road	M	No works required	No impact	B2	3m	20+
T0334	7458 *	Norway Maple	4	150	1.5	1.5	1.5	1.5	2m West	Good	A mature Norway Maple located within the footpath on Orwell Road	M	No works required	No impact	C2	2.5m	20+
T0335	7459 *	Lime Tree									A standing stump		Remove		U		
T0336	5722	Acer Pseudoplatanus Sycamore	8	220	2	2	2	2	3m East	Good	An early mature Sycamore displaying over all good condition. This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	EM	No works required	No impact	B2	3.2m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0337	5723	Sycamore	8	260	3	3	3	3	3m East	Good	An early mature Sycamore displaying over all good condition. This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	EM	No works required	No impact	B2	3.6m	20+
T0338	5724	Sycamore	8	260	3	3	3	3	3m East	Good	An early mature Sycamore displaying over all good condition. This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	EM	No works required	No impact	B2	3.6m	20+
T0339	5725	Sycamore	12	350	3	3	3	3	3m East	Good	A mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	4.5m	20+
T0340	5726	Sycamore	10	260	3	3	3	3	3m East	Good	A mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	3.6m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0341	5727	Sycamore	10	260	3	3	3	3	3m East	Good	A mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	3.6m	20+
T0342	5728	Sycamore	10	260	3	3	3	3	3m East	Good	A mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	3.6m	20+
T0343	5729	Sycamore	8	280	3	3	3	3	3m East	Good	An early mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	EM	No works required	No impact	B2	3.8m	20+
T0344	5730	Sycamore	14	400	3	3	3	3	3m East	Good	A mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	5.0m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0345	5731	Sycamore	12	340	3	3	3	3	3m West	Good	A large mature co-dominant Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	4.4m	20+
T0346	5732	Acer Platanoides Norway Maple	10	330	2	2	3	3	3m East	Good	A mature Norway Maple displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	4.3m	20+
T0347	5733	Sycamore	10	280	2	2	3	3	3m East	Good	A mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	3.8m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0348	5735	Sycamore	8	220	2	2	2	2	3m East	Good	An early mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	EM	No works required	No impact	B2	3.2m	20+
T0349	5736	Acer Campestre Field Maple	8	220	2	2	2	2	2m East	Good	An early mature Field Maple displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	EM	No works required	No impact	C2	3.2m	20
T0350	5737	Sycamore	12	300	3	3	3	3	3m North	Good	A mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	4.0m	20

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0351	5738	Sycamore	14	370	3	3	3	3	3m North	Good	A mature Sycamore displaying over all good condition This tree is growing in a grass verge within a low-lying Hawthorn hedgerow that divides the R137.	M	No works required	No impact	B2	4.7m	20+
T0352	Group 1 x 3 P	Norway Maple	10	280	2	2	2	2	2m East	Good	Represents 3 mature Norway Maple displaying over all good condition. These trees are located within the Spa Well Gym Car Park	M	No works required	No impact	B2	3.8m	20
T0353	5739 x 3	Betula Pendula Silver Birch	8	180	2	2	2	2	2m East	Fair	Represents 3 semi-mature Silver Birch displaying over all fair condition. One of these trees is in decline. These trees are shown to be removed as the existing roundabout is being converted into a signalized junction. These trees are located on the Spa Well Roundabout	SM	No works required	To be removed	C2	2.8m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0354	5740 x 5	Norway Maple	4	120	1	1	1	1	2m East	Fair	Represents 5 semi-mature Norway Maple displaying over all fair condition. These trees have evidence of decline in the upper canopies. These trees are all denoted to be removed to facilitate the proposed cycle track	SM	No works required	To be removed	C2	2.2m	10+
T0355	5741 x 3	Norway Maple	4	120	1	1	1	1	2m East	Fair	Represents 3 semi-mature Norway Maple displaying over all fair condition. These trees have evidence of decline in the upper canopies.	SM	No works required	No impact	C2	2.2m	10+
T0356	Group 2 x 18	Norway maple Ash	16	280	2	4	3	3	2m South	Good	A group of Norway maple and ash provide good screening and amenity value	EM	No works required	No impact	B2	3.8m	20+
T0357	Group 3	Scrub hedgerow, bramble, hawthorn, buddleia	6	150	1	1	1	1	.5m south	Poor	A group of scrub hedgerow, consisting of bramble, buddleia and hawthorn	EM	No works required	No impact	U		10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0358	4877-4878 x13	Sycamore	16	360	2	2	2	2	3m South	Good	A group of 13 large mature sycamore	M	Remove	Remove to facilitate works	B2	4.6m	20+
T0359	4879	Ash	16	360	2	2	2	2	2m North	Good	A large mature Ash	M	Remove	Remove to facilitate works	B2	4.6m	20+
T0360	4880	Ash	16	360	2	2	2	2	2m North	Good	A large mature Ash	M	Remove	Remove to facilitate works	B2	4.6m	20+
T0361	4876	Norway Maple	12	320	3	3	3	3	3m South	Good	A mature Norway Maple	M	Remove	Remove to facilitate works	B2	4.2m	20+
T0362	Group 4 x 22	Sycamore, Alder, Mt Ash	8	280	2	2	2	2	1m North	Fair	A group of mixed deciduous trees suppressed by the larger cypress to the rear	EM	Consider for removal	No impact	C2	3.8m	10+
T0363	7419	Monterey pine	22	700	4	4	3	3	8m East	Good	A large mature Monterey pine	M	Remove the	No impact	A2	8m	20+
T0364	7420	Sycamore	8	360	2	2	2	2	2m North	Fair	Mature sycamore suppressed by the larger pine	M	No works required	No impact	C2		10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0365	5742 P	Sycamore	14	240	4	4	4	4	2m East	Good	A mature multi-stemmed Sycamore displaying over all good condition. This tree is located at the Junction of Old Bridge Road and Templeogue Road	M	No works required	No impact	C2	3.4m	20+
T0366	7421x 5	Hawthorn	4	90	1	1	1	1	.5m South	Fair	A row of hawthorns, struggling in their location	Y	No works	Remove	C2	2m	10+
T0367	T154 x 2	Silver birch	14	140	1	1	1	1	1m North	Good	Two birch trees located in a private garden	EM	No works required	No impact	B2	2.4m	20+
T0368	T147 x 2 *P	Laburnum Anagyroides Laburnum	8	150	3	3	3	3	3m East	Good	Represents 2 mature multi-stemmed Laburnum displaying over all good condition. These trees are located within the private garden of 325 Templeogue Road	M	No works required	1 to be removed to facilitate the works	B2	2.5m	20+
T0369	T148 x 3 P	Sorbus	4	100	1	1	1	1	2m East	Good	Represents 3 semi-mature trees, 1 Mountain Ash and 2 laburnum displaying over all good condition. These trees are located within the private garden of 325 Templeogue Road.	SM	No works required	To be removed to facilitate the works	B2	2.0m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0370	T150B P	Cherry	2.5	70	1	1	1	1	1m North	Good	A cherry tree in the garden of 323 Templeogue Road	EM	No works required	To be removed to facilitate the works	C2	1.7m	20+
T0371	T149 P	Mountain Ash	3	80	2	2	2	2	2m East	Good	A semi-mature Mountain Ash displaying over all good condition. This tree is located within the private front garden of 319 Templeogue Road.	SM	No works required	No impact	B2	1m	20+
T0372	T150 *P	Acer Saccharinum Silver Maple	14	350	2	2	2	2	1.5m East	Good	A mature Silver Maple displaying over all good condition. This tree is located within the private front garden of 321 Templeogue Road	M	No works required	To be removed to facilitate the works	C2	4.5m	20+
T0373	T151 P	Acer Platanoides Crimson King Norway	12	300	2	2	2	2	2m East	Good	A mature Norway Maple Crimson King displaying over all good condition. This tree is located within the private front garden of 319 Templeogue Road.	M	No works required	Remove to facilitate works	B2	4.0m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0374	T152 *P	Prunus Avium Cherry	6	350	3	3	3	3	2m North	Fair	A mature Cherry displaying over all fair condition. This tree has been heavily over-pruned in the past to accommodate overhead wire. This tree is located within the private front garden of 319 Templeogue Road.	M	No works required	No impact	B2	4.5m	20+
T0375	T153 *P	Fraxinus	10	180	2	2	2	2	3m West	Good	A semi-mature Ash displaying over all good condition. This tree is located between the boundary of 317 Templeogue Road.	SM	No works required	No impact	B2	2.8m	20+
T0376	T155 P	Monterey Cypress	14	200	3	3	3	3	2m North	Good	A mature Monterey Cypress displaying overall good condition	M	No works required	No impact	B2	2.8m	20+
T0377	5744 *P	Taxus Baccata Yew	12	520	4	4	4	4	4m South	Good	A large mature Yew displaying over all good condition.	M	No works required	To be removed to facilitate works	A2	6.2m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0378	5745 *P	Sycamore	24	920	6	6	6	6	4m East	Good	A large mature Sycamore displaying over all good condition. This tree has evidence of early decline but it remains in good condition.	M	No works required	To be removed to facilitate works	B2	10.2m	20+
T0379	T156 *P	Sycamore	6	600	0.5	0.5	0.5	0.5	3m North	Poor	A large mature Sycamore displaying over all poor condition. This tree has been heavily over-pruned and is basically a stump. This tree is located within private garden 313 Templeogue Road.	M	No works required	To be removed to facilitate works	U	7.0m	10-
T0380	T168 *P	Holly	8	200	0.5	0.5	0.5	0.5	1m North	Good	A mature Holly displaying over all good condition. Holly is to be retained but the surrounding Shrubbery to be removed. This tree is located within private garden 311 Templeogue Road.	M	No works required	To be removed to facilitate works	C2	3.0m	20
T0381	T168B P	Leyland Cypress	4	100	2	2	2	2	.5m East	Good	A Leyland Cypress in the garden of 45 Templeogue Road.	M	No works required	To be removed to facilitate works	C2	2.0m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0382	T169B *P	Eucalyptus	10	200	3	3	3	3	1m East	Good	A Eucalyptus in the garden of 11 Fortrose Park.	M	No works required	To be removed to facilitate works	B2	3.0m	20+
T0383	T169 P	Cupressus x Leylandii Leyland Cypress	4	500	2	2	2	2	1m North	Fair	A mature Leyland Cypress displaying over all fair condition. This tree has been heavily over pruned in the past. This tree is located within the private garden of 14 Fortrose Park.	M	No works required	No impact	C2	6.0m	10-
T0384	T176 *P	Rhus typhina	3	110	2	2	2	2	2m East	Good	A mature multi-stemmed Sumac displaying over all good condition. This tree is located within the private garden 269 Templeogue Road.	M	No works required	No impact	C2	2.1m	10
T0385	5746	Cherry	10	650	6	6	6	6	3m North	Fair	A large over-mature Cherry displaying over all fair condition. This tree has suffered stem damage in the mid and upper canopy.	OM	No works required	To be removed to facilitate works	C2	7.5m	10-
T0386	5747	Cherry	8	400	4	4	4	4	2m East	Fair	A large mature Cherry displaying over all fair condition. This tree has suffered significant stem damage	M	No works required	To be removed to facilitate works	C2	5.0m	10

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0387	5748	Cherry	6	410	4	4	4	4	2m North	Fair	A mature Cherry displaying over all fair condition	M	No works required	No impact	C2	5.1m	10
T0388	5749	Cherry	14	510	4	4	4	4	3m North	Good	A large mature Cherry displaying over all fair condition	M	No works required	No impact	C2	6.1m	10
T0389	5750	Norway Maple	16	390	3	3	3	3	4m North	Good	A mature Norway Maple displaying over all good condition	M	No works required	No impact	B2	4.9m	20
T0390	5751	Field Maple	16	450	4	4	4	4	3m North	Good	A large mature Field Maple displaying over all good condition	M	No works required	No impact	B2	5.5m	20+
T0391	5752	Field Maple	8	320	2	2	2	2	2m East	Good	A mature Field Maple displaying over all good condition	M	No works required	No impact	B2	4.2m	20+
T0392	5753	Field Maple	6	200	2	2	2	2	2m East	Fair	An early mature Field Maple displaying over all fair condition. This tree has had its upper canopy negatively pruned to facilitate overhead wires	EM	No works required	No impact	C2	3.0m	10
T0393	5754	Field Maple	10	360	3	3	3	3	2m East	Good	A large mature Field Maple displaying over all good condition	M	No works required	No impact	B2	4.6m	20

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0394	5759 x3 *	Prunus Cerasifera	8	290	3	3	3	3	2m North	Good	3 mature Purple Plums displaying over all good condition	M	No works required	1 to be removed to facilitate the works	B2	3.9m	20+
T0395	5760 x 2	Mountain Ash	8	260	2	2	2	2	3m North	Fair	Represents 2 mature Mountain Ash displaying over all fair condition. Their upper canopies have been negatively pruned to facilitate overhead wires	M	No works required	No impact	C2	3.6m	10
T0396	Group 5 *P	Lawson cypress	18	380	2	2	2	2	2m South	Good	A cypress hedgerow that runs from 247-249 Templeogue road. Provides good screening	M	No works required	No impact	B2	4.8m	20+
T0397	5756 x 3	Norway Maple	8	260	3	3	3	3	2m South	Good	Represents 3 early mature Norway Maple displaying over all good condition.	EM	No works required	No impact	B2	3.6m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0398	5757 x 7 *	Norway Maple	14	260	2	2	2	2	3m North	Fair	Represents 7 mature Norway Maple displaying over all fair condition. The lower canopies of these trees are overgrown with Clematis and Ivy. These trees do provide good screening between the green area and the adjacent houses.	M	No works required	No impact	B2	3.6m	20+
T0399	5758 x 4	Norway Maple	10	320	2	2	2	2	3m North	Good	Represents 4 mature Norway Maple displaying over all good condition.	M	No works required	No impact	B2	4.2m	20+
T0400	5761 -5762 x 3	Norway Maple	16	260	3	3	3	3	2m North	Good	Represents 3 mature Norway Maple displaying over all good condition	M	No works required	To be removed to facilitate works	B2	3.6m	20+
T0401	5763	Carpinus Betulus	12	340	2	2	2	2	2m East	Good	A large mature Hornbeam displaying over all good condition	M	No works required	No impact	B2	4.4m	20+
T0402	5764	Tilia	12	370	3	3	3	3	4m East	Good	A large mature Lime displaying over all good condition	M	No works required	No impact	B2	4.7m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0403	5765	Hornbeam	14	430	3	3	4	4	3m East	Good	A large mature Hornbeam displaying over all good condition	M	No works required	No impact	B2	5.3m	20+
T0404	5766	Lime	16	450	4	4	4	4	4m East	Good	A mature Lime displaying over all good condition	M	No works required	No impact	B2	5.5m	20+
T0405	5767	Lime	16	450	4	4	4	4	4m East	Good	A mature Lime displaying over all good condition	M	No works required	No impact	B2	5.5m	20+
T0406	5768 x 3	Hornbeam	14	250	2	2	2	2	3m East	Good	Represents 3 mature Hornbeam displaying over all good condition. The centre tree will require removal	M	No works required	Remove centre tree	B2	3.5m	20+
T0407	5769	Hornbeam	12	360	2	2	2	2	2m East	Good	A mature Hornbeam displaying over all good condition	M	No works required	No impact	B2	4.6m	20+
T0408	5770	Ash	14	340	4	2	2	2	2m South	Fair	A mature Ash displaying over all fair condition. This tree has been suppressed by the surrounding trees	M	No works required	No impact	C2	4.4m	10+
T0409	5771	Quercus	26	980	4	4	4	4	4m North	Good	A large mature Oak displaying over all good condition. Fantastic specimen	M	No works required	To be removed to facilitate works	A2	10.8m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0410	5772	Lime	16	420	3	3	3	3	3m North	Good	A mature Lime displaying over all good condition	M	No works	No impact	B2	5.2m	20+
T0411	5773 x 2	Hornbeam	16	310	2	2	2	2	2m North	Good	Represents 2 mature Hornbeam displaying over all good condition	M	No works required	To be removed to facilitate works	B2	4.1m	20+
T0412	5774 P	Quercus Palustris Pin Oak	14	300	3	3	3	3	3m North	Good	A mature Pin Oak displaying over all good condition.	M	No works required	No impact	B2	4.0m	40+
T0413	5775 P	Ash	24	680	4	4	3	3	5m South	Fair	A large mature multi-stemmed Ash displaying over all fair condition. This tree has been heavily pruned and there is in a fungal bracket located on the northern side of tree	M	No works required	No impact	C2	7.8m	10
T0414	5776 x 5 *	Hornbeam, Ash	10	310	2	2	2	2	3m East	Fair	Represents a group of 2 early mature Hornbeam and 3 early mature Ash displaying over all fair condition	EM	No works required	To be removed to facilitate works	C2	4.1m	10

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0415	5777 x 26 P	Populus Nigra Lombardy Poplar	20	510	2	2	2	2	2m South	Fair	Represents a group of 26 mature Lombardy Poplar displaying over all fair condition. These trees have been heavily pruned in the upper canopies. These trees are located within the Bushy Park House Apartment so are private trees	M	No works required	No impact	C2	6.1m	10
T0416	5778	Juglans	10	310	3	3	2	2	3m North	Fair	A mature Walnut displaying over all fair condition. This tree has suffered significant damage in the upper canopy	M	No works required	No impact	B2	4.1m	10
T0417	5779 x 3	Lime	16	300	3	3	3	3	3m North	Good	Represents 3 mature Lime displaying over all good condition	M	No works required	No impact	B2	4.0m	20+
T0418	5780	Oak	20	890	2	2	2		6m North	Poor	A large mature Oak displaying over all poor condition. This tree has been heavily over pruned in the past and all the weight is now in the upper canopy. This tree has lost its aesthetic value	M	Consider for removal	To be removed to facilitate works	C2	9.9m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0419	5781	Quercus Cerris	10	220	2	2	2	2	2m North	Good	An early mature Turkey Oak displaying over all good condition	EM	No works required	No impact	B2	3.2m	40+
T0420	5782	Oak	20	570	4	6	3	3	5m North	Good	A large mature Oak displaying over all good condition. There are some broken limbs and deadwood in the upper canopy	M	Remove broken limbs and deadwood	No impact	B2	6.7m	20+
T0421	5783	Oak		920	3	6	3	5	3m North	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	B2	10.2m	40+
T0422	Group 7 P	Row of large mature, ash	22	400	3	3	3	3	3m South	Good	Mixed deciduous tree line within the grounds of Terenure College	M	No works required	No impact	A2	5.0m	20+
T0423	5784	Oak	5	950	1	1	1	1	2m North	Fair	A mature Oak displaying over all fair condition. This tree is a remnants of a stump	M	Consider for removal	No impact	C2	10.5m	10
T0424	5785	Aesculus Hippocastanum	24	880	3	3	3	3	3m North	Good	A large mature Horse Chestnut displaying over all good condition	M	No works required	No impact	A2	9.8m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0425	5786	Oak	22	800	2	2	2	2	3m North	Good	A large mature Oak displaying over all good condition. This tree has undergone extensive tree surgery works in the past	M	No works required	No impact	A2	9.0m	20+
T0426	5787	Oak	24	800	4	4	4	4	3m North	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	9.0m	40+
T0427	5788	Quercus Robur	20	610	4	4	4	4	4m South	Good	A large mature Common Oak displaying over all good condition	M	No works required	No impact	A2	7.1m	40+
T0428	5789	Quercus Petraea	24	900	6	6	6	6	4m South	Good	A large mature Sessile Oak displaying over all good condition	M	No works required	No impact	A2	10.0m	40+
T0429	5790	Sessile Oak	22	650	4	4	4	4	2m North	Good	A mature Sessile Oak displaying over all good condition	M	No works required	No impact	A2	7.5m	40+
T0430	5791	Sessile Oak	22	650	4	4	4	4	2m North	Good	A mature Sessile Oak displaying over all good condition	M	No works required	No impact	A2	7.5m	40+
T0431	5792	Sycamore	20	520	4	4	4	4	3m North	Good	A mature co-dominant Sycamore displaying over all good condition	M	No works required	No impact	B2	6.2m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0432	5793	Beech	18	490	3	3	3	3	3m North	Good	A mature Beech displaying over all good condition	M	No works required	No impact	B2	5.9m	40+
T0433	5794	Oak	24	1020	3	3	3	3	2m South	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	11.2m	40+
T0434	5795	Beech	18	490	3	3	3	3	3m North	Good	A mature Beech displaying over all good condition	M	No works required	No impact	B2	5.9m	40+
T0435	5796	Oak	20	1150	5	5	5	5	5m South	Good	A large mature Oak displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	12.0m	40+
T0436	5797	Oak	26	1150	5	5	5	5	5m South	Good	A large mature Oak displaying over all good condition. Fantastic specimen. There is some Ivy in the lower third of the canopy.	M	Remove the Ivy	No impact	A2	12.0m	40+
T0437	5798	Ulmus Glabra	8	250	3	3	3	3	3m South	Good	An early mature Witch Elm displaying over all good condition	EM	No works required	No impact	B2	3.5m	40+
T0438	5799	Sycamore	12	220	2	2	2	2	4m East	Good	An early mature variegated Sycamore displaying over all good condition	EM	No works required	No impact	B2	3.2m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0439	5800	Ash	18	440	3	3	3	3	4m East	Good	A large mature Ash displaying over all good condition	M	No works required	No impact	B2	5.4m	20+
T0440	5801	Pyrus	8	140	0.5	0.5	0.5	0.5	1.5m North	Good	A semi-mature Pear Tree displaying over all good condition	SM	No works required	No impact	C2	2.4m	10+
T0441	5802	Liriodendron Tulipifera	5	230	2	2	2	2	3m North	Good	A semi-mature Tulip Tree displaying over all good condition	SM	No works required	No impact	C2	3.3m	10+
T0442	5803	Ash	20	380	3	3	3	3	4m South	Good	A large mature Ash displaying over all good condition	M	No works required	No impact	B2	4.8m	20+
T0443	5804	Ash	16	400	3	3	3	3	3m North	Good	A large mature Ash displaying over all good condition	M	No works required	No impact	B2	5.0m	20+
T0444	5805	Turkey Oak	8	190	2	2	2	2	2m South	Good	An early mature Turkey Oak displaying over all good condition	EM	No works required	No impact	B2	2.9m	40+
T0445	5806	Beech	24	750	4	4	4	4	4m North	Good	A large mature Beech displaying over all good condition	M	No works required	No impact	A2	8.5m	40+
T0446	5807	Horse Chestnut	24	920	4	4	4	4	5m North	Good	A large mature Horse Chestnut displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	10.2m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0447	5808	Beech	24	1000	8	2	3	3	3m East	Good	A large mature co-dominant Beech displaying over all good condition	M	No works required	No impact	B2	11.0m	20+
T0448	5809	Oak	24	640	4	4	4	4	6m South	Good	A large mature Oak displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	7.4m	40+
T0449	5810	Oak	28	830	6	6	4	4	3m North	Good	A large mature Oak displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	9.3m	40+
T0450	5811	Oak	24	660	4	4	4	4	5m East	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	7.6m	40+
T0451	5812	Oak	24	490	3	3	3	3	3m East	Good	A mature Oak displaying over all good condition	M	No works required	No impact	A2	5.9mm	40+
T0452	5813	Oak	28	1000	4	4	4	4	4m East	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	11.0m	40+
T0453	5814	Oak	24	820	3	3	3	3	3m North	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	9.2m	40+
T0454	5815	Oak	24	830	4	4	4	4	3m East	Good	A mature Oak displaying over all good condition	M	No works required	No impact	A2	9.3m	40+
T0455	5816	Oak	28	1120	4	4	4	4	2m South	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	12.0m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0456	5817	Lime	24	830	3	3	3	3	3m North	Good	A large mature Lime displaying over all good condition	M	No works required	No impact	A2	9.3m	40+
T0457	5818	Norway Maple	8	210	2	2	2	2	3m North	Good	An early mature Norway Maple displaying over all good condition	EM	No works required	No impact	C2	3.1m	20+
T0458	5819	Sycamore	20	870	3	3	3	3	3m East	Good	A large mature Sycamore displaying over all good condition	M	No works required	No impact	B2	9.7m	40+
T0459	5820	Norway Maple	8	180	2	2	2	2	3m East	Good	A semi-mature Norway Maple displaying over all good condition	SM	No works required	No impact	C2	2.8m	20+
T0460	5821	Lime	22	800	4	4	4	4	3m North	Good	A large mature Lime displaying over all good condition	M	No works required	No impact	A2	9.0m	40+
T0461	5822	Ash	18	450	3	3	3	3	4m South	Fair	A large mature Ash displaying over all fair condition. This tree has evidence of decline in the upper canopy	M	No works required	No impact	C2	5.5m	10+
T0462	5823 x 3	Ash	20	360	2	2	2	2	3m North	Fair	Represents 3 mature Ash displaying over all fair condition. These trees have evidence of decline in the upper canopies.	M	No works required	No impact	C2	4.6m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0463	5824	Sycamore	18	400	3	3	3	3	3m South	Good	A mature co-dominant Sycamore displaying over all good condition	M	No works required	No impact	B2	5.0m	20+
T0464	5825	Sycamore	16	460	3	3	3	3	4m South	Good	A mature Sycamore displaying over all good condition	M	No works required	No impact	B2	5.6m	20+
T0465	5826	Horse Chestnut	28	1160	4	4	4	4	4m South	Good	A large mature Horse Chestnut displaying over all good condition. Fantastic specimen	M	No works required	No impact	A2	12.0m	40+
T0466	5827 x3	Oak & Beach & Ash	16	400	3	3	3	3	3m East	Good	Represents a group of 3 mature mixed deciduous trees consisting of Oak, Beech and an Ash displaying over all good condition	M	No works required	No impact	B2	5.0m	40+
T0467	5828 x 4	Ash	20	440	3	3	3	3	5m East	Fair	Represents 4 mature Ash displaying over all fair condition. There is evidence of decline in the these trees.	M	Remove all the deadwood	No impact	B2	5.4m	10-
T0468	5829	Ash	4	180	1	1	1	1	2m South	Fair	A semi-mature Ash displaying over all fair condition. There is evidence of decline in the upper canopy	SM	No works required	No impact	C2	2.8m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0469	5830 x 5	Ash	10	380	2	2	2	2	2m East	Good	Represents 5 mature Ash displaying over all good condition	M	No works required	No impact	B2	4.8m	20+
T0470	5831	Ash	16	440	4	4	4	4	4m South	Fair	A mature Ash displaying over all fair condition. There is evidence of decline in the upper canopy	M	Remove the deadwood	No impact	C2	5.4m	10+
T0471	5832	Ash	16	440	4	4	4	4	4m South	Fair	A mature Ash displaying over all fair condition. There is evidence of decline in the upper canopy	M	Remove the deadwood	No impact	C2	5.4m	10+
T0472	5833	Cherry	8	370	3	3	3	3	2m South	Good	A mature Cherry displaying over all good condition. This tree could be considered for removal due to the proximity to the proposed cycle lane and the problems with surface roots in Cherry trees.	M	Consider for removal	No impact	C2	4.7m	10+
T0473	5834	Sycamore	22	800	4	4	4	4	3m North	Good	A large mature Sycamore displaying over all good condition	M	No works required	No impact	B2	9.0m	20+
T0474	5835	Lime	26	750	4	4	4	4	3m East	Good	A large mature Lime displaying over all good condition	M	No works required	No impact	A2	8.5m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0475	5836	Cherry	10	290	2	2	2	2	3m North	Good	A mature Cherry displaying over all good condition	M	No works required	No impact	B2	3.9m	10+
T0476	5837	Quercus Rubra	8	210	2	2	2	2	3m South	Good	An early mature Red Oak displaying over all good condition	EM	No works required	No impact	B2	3.1m	40+
T0477	5838 x 3	Lime & Ash & Pear	6	160	1.5	1.5	1.5	1.5	2m East	Good	Represents 3 semi-mature mixed deciduous trees consisting of a Lime, an Ash and a Pear tree displaying over all good condition	SM	No works required	No impact	B2	2.6m	40+
T0478	5839	Turkey Oak	14	480	3	3	3	3	3m North	Good	A mature Turkey Oak displaying over all good condition	M	No works required	No impact	A2	5.8m	40+
T0479	5840	Lime	20	500	4	4	3	3	3m South	Good	A large mature Lime displaying over all good condition. There is significant Basal Suckering on this tree	M	Remove the Basal Suckers	No impact	A2	6.0m	40+
T0480	5841	Lime	20	500	4	4	3	3	3m South	Good	A large mature Lime displaying over all good condition. There is significant Basal Suckering on this tree	M	Remove the Basal Suckers	No impact	A2	6.0m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0481	5842	Ash	8	250	2	2	2	2	2m East	Good	An early mature Ash displaying over all good condition	EM	No works required	No impact	B2	3.5m	20+
T0482	5843	Lime	8	220	2	2	2	2	2m South	Good	An early mature Lime displaying over all good condition	EM	No works required	No impact	B2	3.2m	40+
T0483	5844 x 2	Lime	14	400	3	3	3	3	3m South	Good	Represents 2 mature Lime displaying over all good condition. There are Basal Suckers at the base of these trees	M	Remove the Basal Suckers	No impact	B2	5.0m	40+
T0484	5847	Ash	10	390	3	3	3	3	2m East	Fair	A mature Ash displaying over all fair condition. This tree is showing signs of decline in the upper canopy	M	Consider for removal	No impact	C2	4.9m	10+
T0485	5849	Ash	10	290	3	3	3	3	2m East	Fair	An early mature Ash displaying over all fair condition. This tree is showing evidence of decline in the upper canopy	EM	Consider for removal	No impact	C2	3.9m	10+
T0486	5845	Cherry	10	280	2	2	2	2	2m East	Good	A mature Cherry displaying over all good condition	M	No works required	No impact	B2	3.8m	20+
T0487	5846	Sycamore	8	240	2	2	2	2	2m East	Good	An early mature variegated Sycamore displaying over all good condition	EM	No works required	No impact	B2	3.4m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0488	5848	Pear Tree	6	250	2	2	2	2	2m South	Good	A mature Pear tree displaying over all good condition	M	No works required	Remove	B2	3.5m	20+
T0489	5850	Lime	12	390	3	3	3	3	3m South	Good	A mature Lime displaying over all good condition	M	No works required	No impact	B2	4.9m	20+
T0490	5851	Horse Chestnut	6	220	2	2	2	2	1m East	Good	An early mature Horse Chestnut displaying over all good condition.	EM	No works required	No impact	C2	3.2m	10+
T0491	5852	Ulmus	20	640	3	3	3	3	3m East	Good	A mature Elm displaying over all good condition	M	No works required	No impact	B2	7.4m	20+
T0492	5853	Oak	20	840	8	6	6	6	4m North	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	9.4m	40+
T0493	5854	Horse Chestnut	24	1020	4	4	4	4	2m South	Good	A large mature Horse Chestnut displaying over all good condition	M	No works required	No impact	A2	11.2m	40+
T0494	5855	Horse Chestnut	16	760	4	4	4	4	2m South	Good	A large mature Horse Chestnut displaying over all good condition	M	No works required	No impact	B2	8.6m	20+
T0495	5856	Oak	20	740	3	3	3	3	3m South	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	8.4m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0496	5857	Sycamore	16	470	2	2	2	2	2m South	Good	A mature Sycamore displaying over all good condition. There is some lower Basal Suckers at the base of this tree	M	Remove the Basal Suckers	No impact	B2	5.7m	40+
T0497	5858	Horse Chestnut	22	1000	3	3	3	3	2m South	Good	A large mature Horse Chestnut displaying over all good condition.	M	Ring the Ivy to kill it off	No impact	A2	11.0m	40+
T0498	5859	Sessile Oak	18	800	2	2	2	2	2m South	Good	A mature Sessile Oak displaying over all good condition	M	No works required	No impact	B2	9.0m	40+
T0499	5860	Oak	24	860	3	8	3	3	3m East	Good	A large mature Oak displaying over all good condition. This tree has been heavily pruned in the past but still maintains an overall good condition	M	No works required	No impact	B2	9.6m	20+
T0500	5861	Oak	20	710	3	3	3	3	3m North	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	8.1m	40+
T0501	5862	Ash	10	230	3	3	3	3	3m South	Fair	An early mature Ash displaying over all fair condition. This tree is showing evidence of decline	EM	No works required	No impact	C2	3.3m	10+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0502	5863	Lime	24	600	3	3	3	3	2m South	Good	A mature Lime displaying over all good condition. This tree has Basal Suckers at its base	M	Remove lower Basal Suckers	No impact	B2	7.0m	20+
T0503	5864	Oak	18	720	3	3	3	3	3m South	Good	A mature Oak displaying over all good condition	M	No works required	No impact	B2	8.2m	20+
T0504	5865	Oak	18	610	3	3	3	3	3m South	Good	A mature Oak displaying over all good condition. This tree has lost limbs in the upper canopy but still maintains overall good condition	M	No works required	No impact	B2	7.1m	20+
T0505	5866	Horse Chestnut	20	1100	3	3	3	3	2m South	Good	A large mature Horse Chestnut displaying over all good condition	M	No works required	No impact	A2	12.0m	20+
T0506	5867	Horse Chestnut	20	1100	3	3	3	3	2m South	Good	A large mature Horse Chestnut displaying over all good condition	M	No works required	No impact	A2	12.0m	20+
T0507	5868	Common Oak	18	760	3	3	3	3	3m South	Good	A mature Common Oak displaying over all good condition	M	No works required	No impact	B2	8.6m	40+
T0508	5869	Common Oak	18	760	3	3	3	3	3m South	Good	A mature Common Oak displaying over all good condition	M	No works required	No impact	B2	8.6m	40+
T0509	5870	Horse Chestnut	22	650	3	3	3	3	3m North	Good	A mature Horse Chestnut displaying over all good condition	M	No works required	No impact	A2	7.5m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0510	5871	Oak	24	700	5	5	5	5	3m North	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	8.0m	40+
T0511	5872	Horse Chestnut	20	840	4	4	4	4	3m East	Good	A mature Horse Chestnut displaying over all good condition	M	No works required	No impact	B2	9.4m	20+
T0512	5873	Ash	14	280	2	2	2	2	4m South	Fair	An early mature Ash displaying over all fair condition. This tree is showing evidence of decline in the upper canopy	EM	No works required	No impact	C2	3.8m	10
T0513	5874	Horse Chestnut	20	800	4	4	4	4	3m East	Good	A large mature Horse Chestnut displaying over all good condition	M	No works required	No impact	B2	9.0m	20+
T0514	5875 x 2	Oak	16	450	1	1	1	1	4m South	Poor	Represents 2 mature Oak displaying over all poor condition. These trees have been heavily suppressed by the surrounding trees and they have had their upper canopies removed	M	Consider for removal	No impact	C2	5.5m	10
T0515	5876	Oak	26	700	4	4	4	4	4m South	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	8.0m	40+
T0516	5877	Lime	24	600	4	4	4	4	2m South	Good	A mature Lime displaying over all good condition	M	Remove the Basal	No impact	A2	7.0m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0517	5878	Sycamore	28	750	4	4	4	4	3m East	Good	A large mature Sycamore displaying over all good condition	M	No works required	No impact	A2	8.5m	40+
T0518	5879	Oak	14	340	1	4	3	3	3m South	Fair	An early mature Oak displaying over all fair condition.	EM	No works required	No impact	C2	4.4m	20+
T0519	5880	Oak	24	740	4	4	4	4	4m South	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	8.4m	40+
T0520	5881	Lime	22	650	4	4	4	4	2m East	Good	A large mature Lime displaying over all good condition	M	Remove the lower Basal	No impact	A2	7.5m	40+
T0521	5882	Ash	10	230	2	2	2	2	2m North	Fair	An early mature Ash displaying over all fair condition. This tree has been suppressed by the larger surrounding trees and there is evidence of decline in the upper canopy of this tree	EM	No works required	Remove to facilitate works	C2	3.3m	10+
T0522	5885	Turkey Oak	8	210	3	3	3	3	2m South	Good	An early mature Turkey Oak displaying over all good condition	EM	No works required	No impact	B2	3.1m	40+
T0523	T16	beech	18	500	3	3	3	3	2m South	Good	A large mature beech in the front garden 105	M	No works required	No impact	B2	6m	20+
T0524	T17	Elm	18	400	3	3	4	3	4m south	Good	A large mature Elm in the front garden 105	M	No works required	No impact	B2	6m	20+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0525	5887	Sycamore	24	500	4	4	4	4	2m South	Good	Mature Sycamore	M	No works required	No impact	B2	7m	20+
T0526	5888	Sycamore	8	920	0	0	0	0	3m South	Poor	A large mature Sycamore displaying over all poor condition. This tree is only a stump. The upper canopy of this tree has been completely removed.	M	Remove	Remove	U	10.2m	0
T0527	5889	Aesculus Carnea Red Horse Chestnut	10	420	3	3	3	3	2m North	Fair	A mature Red Horse Chestnut displaying over all fair condition. There is significant bark peeling on this tree	M	No works required	No impact	C2	5.2m	10+
T0528	5890	Fraxinus Excelsior	14	500	3	3	3	3	3m East	Good	A mature Weeping Ash displaying over all good condition	M	No works required	No impact	B2	6.0m	20+
T0529	5891	Sycamore	26	1060	4	4	4	4	5m North	Good	A large mature Sycamore displaying over all good condition	M	No works required	No impact	A2	11.6m	40+
T0530	5892	Lime	20	500	3	3	3	3	2m North	Good	A large mature Lime displaying over all good condition	M	Remove the lower Basal	No impact	B2	6.0m	40+
T0531	5893	Lime	20	510	2	2	2	2	2m South	Good	A mature Lime displaying over all good condition	M	No works required	No impact	B2	6.1m	40+

Tree No.	Tag #	Species	HT (m)	DBH (mm)	CR. Sp. N	Cr. Sp. S	Cr. Sp. E	Cr. Sp. W	Cr clearance & Dir.	Physiological / Structural Condition	Condition comments	Life stage	PMR	Works to facilitate dev.	Cat.	RPA Radius (m)	Est. Remaining yrs
T0532	5894	Oak	22	830	3	3	3	3	3m North	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	9.3m	40+
T0533	5895	Oak	24	1100	6	6	6	6	2m South	Good	A large mature Oak displaying over all good condition	M	No works required	No impact	A2	12.0m	40+
T0534	5896 x 2	Lime	18	380	2	2	2	2	2m South	Good	Represents 2 mature Lime displaying over all good condition	M	No works required	No impact	B2	4.8m	40+
T0535	5897 x 2	Sycamore	18	400	2	2	2	2	3m South	Good	Represents 2 mature co- dominant Sycamore displaying over all good condition	M	No works required	No impact	B2	5.0m	20+

Appendix B

Arboricultural Method Statement

B1 Arboricultural Method Statement Overview

This Arboricultural Method Statement details the specification for tree protection measures and how sensitive operations are to be achieved in proximity to trees to be retained. It also addresses the general management of site activities to ensure that retained trees are not inadvertently damaged.

This document may need to be amended to reflect more detailed or updated information as it becomes available. The final agreed version must be read in conjunction with the final Tree Protection Plan (to be developed) and copies of both documents must be permanently available on site for reference throughout the works. No changes may take place to the content or application of the Method Statement without the prior written approval of the Project Arboriculturist

When planning permission is in place, some details (including changes in layout, services, materials, tree protection measures and the order of works) may be subject to change. No changes should be enacted without the prior written approval of the Project Arboriculturist. The Method Statement must be reviewed in advance of the commencement.

B2 Pre commencement site meeting

Prior to the commencement of works on site a meeting must take place including the contractor and the Project Arboriculturist. This meeting will allow a further discussion of the programme of works, tree protection measures, the locations of the areas for storage/site organisation and the agreement of any changes to the Method Statement which will then be formally updated and approved as required.

B3 Order of operations

1. Pre commencement Site meeting;
2. Preliminary tree works;
3. Site briefing for Site personnel;
4. Installation of protective fencing and ground protection as required;
5. Demolition and enabling works including utility diversions;
6. Re-adjustment of protective fencing and ground protection as required;
7. Construction operations;
8. Re-adjustment of protective fencing and ground protection as required;

9. Installation of new hard surfaces and hard landscaping;
10. Site signed off on agreed completion of significant development works;
11. Dismantling of tree protection measures;
12. Soft landscaping works within the Root Protection Area (RPA) of retained trees;

B4 Preliminary tree works

All approved tree works are to be completed by suitably qualified and insured contractors and must take place before protective fencing is installed and any Site works begin.

All tree works must be carried out in line with the principles of BS3998: 2010 Tree work – recommendations and be conducted in such a way that no damage is caused to any tree to be retained. The tree works contractor must avoid the production of ruts on unmade ground.

A tree works specification which identifies trees to be felled or pruned is included in the schedule in Appendix A.

Due to the extensive nature of the Site and the potential for tree growth in the period between planning and construction, prior to the commencement of works on a given area of the Site a walkover must be undertaken by the Site team including the Project Arboriculturist to determine if any additional tree works are likely to be required to facilitate the development.

If further additional tree works are deemed to be required during the construction period, the advice of the Project Arboriculturist is to be obtained. No tree works are to take place without the consent of the Project Arboriculturist.

Prior to the commencement of any tree works a thorough check for protected species (including nesting birds, bats and badgers) is to be undertaken. If evidence of any protected species is discovered the advice of a suitably qualified ecologist must be obtained. Tree works are to be undertaken outside of the typical nesting bird season (March to September).

Outside of this period any individual trees will be inspected for evidence of nesting birds by a suitably qualified person prior to works being carried out.

B5 Site briefing

The Site Manager is responsible for ensuring that all personnel are made fully aware of the constraints posed by retained trees on site and the measures in place to ensure they are protected, including having full on-site access to the Arboricultural Method Statement and Tree Protection Plan (TPP). It is good practice for the Project Arboriculturist to be involved in the site briefing to ensure all constraints and tree protection measures are clearly understood.

B6 Site monitoring

Site monitoring shall be established to guide contractors on Site, ensure that tree protection measures are implemented and adhered to.

This includes site visits by the Project Arboriculturist to confirm the correct installation of protective fencing, to oversee sensitive elements of works within the RPA of retained trees and to sign off the site when works are complete before fencing can be dismantled.

The frequency of Site monitoring will be agreed in writing before works begin on Site (but is recommended to be at least every four weeks in addition to ad hoc monitoring of particularly sensitive operations near retained trees as required). An example Site monitoring form is included as Appendix D.

B7 Toolbox talk

A toolbox talk should be provided to Site workers to highlight the need for safe driving of plant and working within the defined corridor to ensure that accidents and resulting potential damage to trees not covered by tree protection measures are eliminated. A copy of the TPP should be used in the process of explaining to all personal the requirements required to ensure retained trees are not damaged and copies of both the TPP and this Method Statement must be available in the Site office at all times.

B8 Protective fencing

In many areas of the Site the works are contained within the existing highway boundary bordered by existing walls or fencing and surrounded by hard surfacing. In such cases no additional tree protection fencing is likely to be required.

Where retained trees are at risk of damage, the default position as set out by BS 5837:2012 is that retained trees must be protected from construction operations with the erection of robust protective fencing positioned on the outer edge of the RPA or crown spread (whichever is greatest).

All site operations will be restricted to the area outside of tree protection fencing and this area will form a Construction Exclusion Zone (CEZ) unless agreed otherwise. Protection measures will be installed as set out in the Tree Protection Plan.

The area inside the fence and any additional tree protection measures will be sacrosanct and must not be removed or altered without the prior approval of the Project Arboriculturist. Any damage to tree protection measures must be reported immediately.

Default Specification:

Fencing shall be constructed with robust vertical and horizontal scaffold framework with weldmesh panels firmly attached in accordance with BS 5837:2012 Figure 2. Vertical support poles and bracing poles must be located with care to avoid underground utility services and will be sited to avoid the structural roots of retained trees. Where driven supports are not practicable due to the presence of roots or underground utilities block trays, counterweights or equivalent can be utilised.

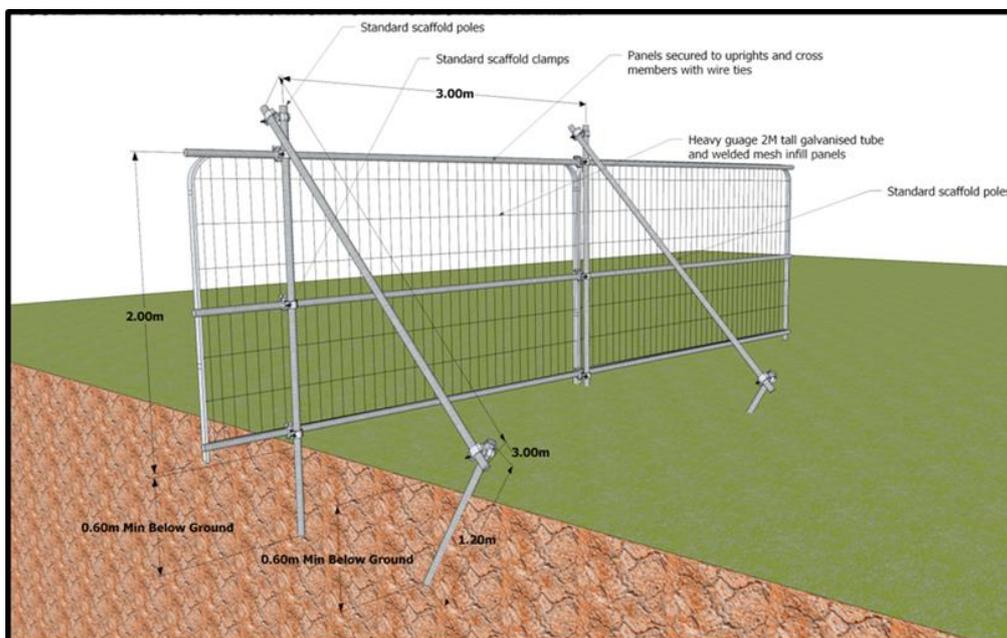


Figure 3: Default specification for tree protection barrier in accordance with BS5837:2012 figure 2

Alternative equivalent robust and immovable fencing specification including site hoarding will also be appropriate.

Suitable all-weather signage will be fixed to fencing to notify site staff and visitors of the CEZ and its purpose (example included as Appendix E).

When entering and exiting the site, the fencing contractor must avoid the production of ruts on the unprotected surface of the ground.

Protective fencing and ground protection shall stay in place until all construction operations are completed and removal is agreed with the Project Arboriculturist.

Chestnut Paling Stem/Limb Wrapping:

Where tree stem or the limbs of trees are at risk of damage (e.g., where plant is unavoidably operating in proximity) they will be protected with a double layer of hessian, carpet felt or equivalent cushioning material, and a double layer of chestnut paling fencing or equivalent hardwood batons secured with wire which is to be wrapped around the stem or branch and must not be pinned or attached to the tree itself. Measures must be removed following completion of works.

B9 Ground protection

Existing hard surfacing will act as fit for purpose ground protection where it is to be retained within the RPA of retained trees.

For existing areas of unsurfaced ground within RPAs where construction access is unavoidable, ground protection will be required to protect the structure of the soil from compaction. This should also apply to areas for new tree planting.

As set out in section 6.2.3.3 of BS5837:2012 the following ground protection measures will be appropriate:

- Suitable ground protection for pedestrian only access will comprise a single thickness of scaffold boards set on a compressible layer of 100mm of woodchip on a geotextile separation layer.
- Pedestrian operated plant up to two tonnes in weight will require the use of a proprietary ground protection system (such as Ground Guards, Eki mats, Eve Trakway or equivalent) set on a minimum depth of 150mm woodchip or sharp sand.
- Heavier loads will require ground protection to an engineering specification in conjunction with arboricultural advice.

As a guide, the threshold beyond which root development is significantly affected is a bulk density ranging from 1.4g per cm³ for clay soils, to 1.75g per cm³ for sandy soils.

B10 Carriageway widening into footway or verge

Where the carriageway is to be widened into the existing footway or verge within the RPA of a retained tree, this must be supervised by the Project Arboriculturist.

The outer extent of the required excavation (nearest to the tree) should be carefully excavated by hand to allow roots to be assessed and pruned as necessary. Exposed roots must be covered with hessian sacking or equivalent. The existing kerb edging and haunching can then be very carefully removed with an excavator working from the existing carriageway, reaching towards the tree and working backwards, reverting to working using hand tools in areas close to retained tree roots as required.

New edging must have the thinnest profile and extent of haunching practicable and pinned alternatives will be applied where practicable. Backfill is to utilise the excavated parent material to replicate the original soil profile.

The sub-base for replacement hard surfacing (where required) must be hand tamped only to prevent significant compaction of the underlying soil.

B11 Footway or verge widening into existing carriageway

Where the footway is to be widened into the existing carriageway, the existing kerb will need to be carefully removed under arboricultural supervision. Kerb stones must be removed using hand tools including pneumatic breakers. Plant positioned on the carriageway can lift out kerb sections using slings. Haunching must be carefully broken out by hand. Any exposed roots must then be covered with soil or hessian to prevent drying out. There will be no constraint on new edging or haunching as it will sit within or above the existing build-up of the carriageway where no roots are present. Backfill must utilise good quality topsoil where the verge is being widened. Where the footway is being widened the new section of the footway can be constructed using a standard methodology providing that the sub-base of the existing footway is retained intact and undisturbed.

B12 Removal and/or replacement of an existing hard surface within an RPA

At the time of writing, the full extent of resurfacing has not been fully determined but there is a potential for extensive areas of resurfacing across the Scheme.

Where resurfacing is required within the RPA of a retained tree the following principles will apply:

Replacement hard surfacing on top of existing surface:

Where practicable, the new hard surface is to be installed on top of the existing surface and the existing edging is to be retained intact.

Removal of existing surface (wearing course):

Before work commences, the Project Arboriculturist will assess the potential for significant roots immediately below the wearing course and in such areas, all works must be achieved by hand. The wearing course must be removed with hand tools (including a handheld pneumatic breaker where required). The existing surface must be 'rolled back' with contractors working from the existing hard surface and with pedestrian only access on the exposed sub-base. With the prior agreement of the Project Arboriculturist, it will be acceptable to use light tracked machinery such as a mini excavator with an untoothed bucket to assist with the removal of the existing surfacing where this can be achieved without damage to any significant roots beneath.

Machinery must work from existing hard standing only. Where surface roots are obviously present (and at the junction between hard and soft ground) surfacing is to be removed by hand only.

Restoring hard surfacing to soft ground:

Following the removal of the wearing course the sub-base is to be broken up using hand tools via pedestrian access only. Materials must be removed using wheelbarrows or via hand loading of long reach machinery positioned on adjacent hard surfacing or ground protection. The sub-base is to be rolled back. Following removal, any low points or hollows are to be filled with sharp sand or gravel and topsoil be applied to the required level which can then be seeded or turfed as required. This area must then be completely fenced off for the remainder of the works or be otherwise protected with ground protection.

Installing replacement pedestrian or light vehicular hard surfacing on an existing sub-base.

The sub-base must be retained intact, ameliorated as required and utilised for the new surface. Levels are to be increased using inert granular fill by a maximum of 100mm. The sub-base must be hand tamped only to prevent significant compaction of the underlying soil.

Exposed roots must be treated in accordance with the guidelines in Section B19 of this Method Statement.

Following the removal of existing hard surfacing, the unprotected ground within RPAs must be immediately protected with protective fencing and/or ground protection (where access is required) as set out in Section B9 to ensure that the structure of the soil and tree roots are protected.

Pedestrian only access onto the exposed and retained sub-base will be acceptable to allow the installation of replacement hard surfacing. The new surface should be laid as soon as practicable.

Any exposed roots greater than 25mm in diameter must be assessed by the Project Arboriculturist.

If roots which are to be retained are exposed at ground level these should be covered with a thin layer of sharp sand and adjacent levels built up around it. This layer must not be significantly compacted, and hand tamped only.

Installing replacement heavy vehicular hard surfacing on an existing sub-base:

The sub-base must be retained intact, ameliorated as required and utilised for the new surface. Exposed roots are unlikely to be encountered due to the heavily engineered sub-base of the existing surface. Where encountered any roots must be treated in accordance with the guidelines in Section B19 of this Method Statement. The new surface must be rolled out working from the existing sub-base only.

Surfacing operations are to be conducted solely from the existing footprint of the road. Access beyond the footprint will be restricted with Tree Protection Barriers as necessary.

Edging:

Existing edging within the RPA of a retained tree will be retained intact and used as the edging for the new surface.

Where the removal of existing edging is unavoidable within an RPA, this will be removed carefully by hand under the supervision of the Project Arboriculturist.

Plant positioned outside of the RPA, or on existing hard surfacing within the RPA, may reach in to assist in lifting edging out of its position using slings but must not be used to excavate around the edging unless otherwise agreed in advance with the Project Arboriculturist.

Where practicable, new edging must be installed without excavation using pinned alternatives. Where an excavated edge is unavoidable both the edging and any footing must have the narrowest profile practicable. Where significant roots are present, which cannot be pruned, reinforced sections of kerb acting as lintels to bridge important roots will be applied where practicable.

B13 Installation of new hard surfacing within RPAs

Very small areas of new hard surfacing in the outer RPA of a retained tree can be constructed using hand excavation supervised by the Project Arboriculturist.

Due to the very small incursion within an RPA, no specialist construction measures will be required. No roots greater than 25mm in diameter will be severed without the consent of the Project Arboriculturist. Where significant roots are encountered, the methodology set out below will be applied to avoid root severance. The approach below will apply where any significant area of new surfacing is required within the RPA of a retained tree.

Three-Dimensional Load Bearing Raft:

Construction of the significant areas of new footway or cycleway hard surfacing within the RPA of retained trees shall follow 'no dig' principles. The surface shall be engineer designed to meet the highest expected loads, including those used for the construction of the route.

A proprietary 3D cellular confinement system will be used to allow the hard surface to be installed without excavation within RPAs.

Work will preferably be carried out in dry conditions within the period of May to October when the ground is less liable to compaction.

Existing ground vegetation shall be treated with an approved herbicide such as glyphosate, 2-3 weeks before construction takes place.

Killed vegetation can then be subject to a maximum 50 mm vegetative scrape which must take place by hand. Any arisings shall be removed (if left in situ they could cause anaerobic conditions as they break down which could be detrimental to tree roots).

Any hollows must be filled with inert granular material such as sharp sand or washed no fines gravel.

Builder's sand must not be used as this contains salts which are toxic to tree roots.

Any rocks, stumps (if present) or other protruding objects within the footprint of the load bearing surface must be removed. Stumps must be ground out below ground level. All other objects must be removed by hand.

A robust geotextile membrane must be laid out across the proposed area for the load bearing surface within the RPA. Joints must overlap by approx. 300 mm and be stapled together. This must be capable of resisting puncture by the angular stone fill, and also able to filter pollutants to prevent or reduce contamination of the soil. The load bearing surface is only required within the RPAs.

It is essential to consider the final levels of the load bearing surface which will typically be 75mm-100 mm in thickness for footway or cycleway applications plus the final wearing course (dependent on its application).

The final surface must be resistant to future growth of tree roots and also must be positioned to give a minimum clearance of 500mm from the base of a retained tree. The resulting gap can be filled with inert granular fill, if required. A three-dimensional load bearing surface which allows the lateral and horizontal movement of air and water (e.g., Cellweb or equivalent), must be fully expanded and stapled together. This is to be laid on top of the geotextile layer.

This surface must be able to support the greatest expected load the surface is likely to experience (including any construction traffic).

The load bearing surface shall be 'rolled out', with construction operations beginning from outside the RPA or from existing hard standing and progressing forwards using the new load bearing surface. The load bearing surface must be filled with 4/20, 20/20 or 20/40 washed angular stone.

Edging is not typically required to stabilise the load bearing surface and the edge of the surface. If edging is required, this must be installed without excavation within RPAs. Appropriate methods would include the use of treated wooden peg and boards.

Concrete kerb stones can be cast directly onto the web if required, however all uncured concrete must be fully contained with impermeable plastic sheeting and sandbags to prevent run off into the RPA of retained trees. The use, storage and mixing of concrete must comply with the provisions set out in section B19.

Where a road edge kerb must be installed by excavation this must be of the thinnest profile practicable with the minimum extent of haunching feasible and all excavation work must be undertaken by hand with any roots managed under the guidance of the Project Arboriculturist.

Alternative kerb construction may be required where significant roots are identified (such as using lintels or equivalent to bridge important roots).

The load bearing surface must have an even transition with adjacent hard surfacing or structures. This must be achieved outside of the RPA of all retained trees. Where this is not practicable, structural soil or a mixture of topsoil and sharp sand can be employed to raise levels by up to 100mm. Where levels are to be raised in excess of this height the advice of the Project Arboriculturist must be obtained.

B14 Demolition

Existing boundary walls, noise barriers, footbridges, lamp columns and other structures are to be demolished within or close to the RPA of retained trees. All demolition must be inward into the existing footprint of the structure or away from tree positions and be achieved by working backwards away from retained trees. No arisings are to fall or be stored in unsurfaced or protected areas of tree RPAs.

All plant and machinery associated with the demolition process will be positioned outside of the RPA of retained trees or on existing hard surfacing or ground protection and must operate under the guidance of a banksman where they must operate within 5m of any part of a retained tree.

Existing footings are to be retained, in situ where practicable to minimise disturbance. Where removal is unavoidable, footings within RPAs must be broken out carefully by hand, or where feasible via the careful use of plant positioned outside of RPAs or on ground protection/existing hard surfacing under the supervision of the Project Arboriculturist.

B15 Construction of New Boundary Walls

Where a new wall cannot avoid an RPA, specialist construction methods must be employed to prevent extensive root severance. Footings must utilise carefully located pads or narrow diameter piles with floating beams (at or above ground level) unless the presence of significant roots has been otherwise discounted following trial excavations under the supervision of the Project Arboriculturist.

Footings must be carefully positioned with hand dug (potentially using compressed air/soil vacuum) trial holes or trenches to identify optimal positioning to avoid significant roots.

Ground protection must be in place where repeated access is required over unsurfaced ground within an RPA.

B16 Installation of Piles

Where new piles are to be installed within or close to the RPA or retained trees the canopy of the tree is to be pruned back before any construction work commences on Site to provide a clearance of the pile head to facilitate this work. For smaller piles, smaller plant or pedestrian installation only should be applied.

Piling rigs to be sited outside of the RPA or on ground protection within an RPA and protective fencing is to be installed to maintain an exclusion zone within as much of the RPA as practicable.

The piling rig is to be positioned as far from the canopy and RPA of the tree as practicable and reach inwards.

Piles will be the lowest diameter feasible. Where piles are to be installed within the RPA of a retained tree, an initial trial hole will be excavated by hand to allow for the assessment and management of any exposed roots under the supervision of the Project Arboriculturist. Pile locations will be adjusted to avoid significant tree roots where feasible.

Pile caps within the RPA must be located above the existing ground level to minimise the level of disturbance.

Beams must not bear on the existing ground level unless the presence of significant tree roots can be discounted following careful trial excavation.

B17 Movement of Vehicles and People and the Movement and Operation of Machinery

Due to the spatial constraints on site, construction works and in particular the use of machinery must be carefully coordinated to avoid damage to retained trees. A banksman must be in place for any operations which occur within 5m of any part of a retained tree. Long reach machinery with jibs, booms or counterweights will require particular care.

Where trees are at risk of impact damage from plant that cannot be controlled with fencing or a careful working methodology, consideration must be given to any requirement for access to facilitate pruning which must be agreed in advance with the Project Arboriculturist.

B18 Site organisation, storage and mixing of materials

The area of constraint associated with retained trees within, or surrounding compounds will be fenced off as an exclusion zone at the outset.

The storage and mixing of materials and any re-fuelling shall take place at least 5m from the RPA of any retained trees and also take into account any potential for run off. Where this is an issue, measures such as bunding with robust impermeable polythene sheeting and sandbags must be put in place to prevent accidental run off reaching the rooting zone of retained trees.

No changes in ground level are permitted within the RPA of a retained tree.

No fires shall take place within an RPA or within 5m of any part of a retained tree. No signs, cables or other items are to be attached to any part of a retained tree.

B19 General principles for the management of tree roots

Where agreed excavation by hand tools or compressed air takes place within an RPA the following principles will apply:

- Individual or small groups of roots less than 25 mm in diameter will be retained where practicable but can be severed with a sharp tool such as secateurs or pruning saws to leave a clean-cut end (ideally 100mm back from the face of the excavation to account for future regrowth) where they pose an obstruction.
- Where roots are encountered which are larger than 25 mm in diameter or where significant groups of smaller roots are found, the advice of the Project Arboriculturist must be sought to decide an appropriate course of action.
- Roots must only be exposed for the minimum period practicable. In the interim period any exposed roots (including the face of any excavation within an RPA) must be completely covered with dampened hessian sacking (which may require ongoing re wetting) to avoid drying out and exposure to light. Backfill for excavations should ideally utilise the parent material and must not be significantly compacted.

B20 Installation of new lamp columns, road signs and bus shelters

Where new features such as lamp columns, road signs or bus shelters are to be installed within the RPA of a retained tree, the final position of the feature must be adjusted to give the greatest clearance of adjacent tree stems practicable and to reduce any conflict with tree branches or any requirement for pruning.

Footings must be excavated by hand or compressed air (e.g., air spade/soil vacuum) for at least the upper 0.5-1m and be adjusted to avoid significant tree roots. Footings must be the smallest dimensions feasible and utilise screw piles or equivalent where necessary. Any uncured concrete required must use the driest mix feasible and excavations must be lined with an impermeable liner to prevent uncured concrete leaching into the surrounding soil. Any cabling must be installed in accordance with the principles set out in B22.

B21 Installation of new drainage within RPAs

Drainage has been designed to avoid the RPA of retained trees as much as practicable. Solutions such as surface channels, off set chambers positioned to avoid RPAs as much as practicable and hand excavated sections of piped filter drain positioned to avoid trees roots will be utilised to further reduce impacts on adjacent trees as appropriate. Where excavation for new drainage must take place within an RPA, the method of installation will be agreed in advance with the Project Arboriculturist and will typically involve the nearest area of excavation to the tree being completed by hand or equivalent to allow significant roots to be carefully exposed and pruned. Roots will be managed in accordance with the principles set out in Section B19.

B22 Installation or diversion of utilities within RPAs

Utility diversion and new utilities have not been fully defined at this stage. The default position is that all services be located outside of the RPA of retained trees. In the context of this Site, it is not feasible to fully avoid the RPA of retained trees and therefore either trenchless installation below tree root systems or hand dug/compressed air excavation through RPAs where significant roots can be retained and worked around, will be required.

Use of trenchless techniques:

Where services can't avoid the RPA of retained trees, the primary consideration must be to install them using trenchless insertion techniques such as impact moiling, direct drilling or equivalent.

Insertion and retrieval pits must be located outside of the RPA of retained trees. The depth of the run must be at least 2m below ground level and should be located as far from the tree as practicable.

The mole must be lubricated with water only.

Installation must follow the principles set out in the National Joint Utilities Group (NJUG) Vol 4: Guidelines for the planning, installation, and maintenance of utility apparatus in proximity to trees (issue 2) and BS5837 Section 7.7 and Table 3.

Replacement pipes must be installed via pipe bursting, relining or equivalent trenchless techniques where they are located within the RPA of a retained tree. Pipe bursting or relining equipment must be positioned outside of the RPA at all times.

Hand digging:

Where trenchless installation isn't feasible, shallow utility runs can be installed via hand or compressed air/soil vacuum excavation. The excavation will be located as far from the stem of the tree as practicable and must be carried out by hand (ideally using compressed air such as an Air Spade and soil vacuum) under the supervision of the Project Arboriculturist.

Pedestrian only access will be permitted, and ground protection measures as set out in Section B10 will be employed where no hard surfacing is in place, with fencing positioned immediately adjacent to restrict any further access into RPAs.

Excavation will be supervised by the Project Arboriculturist who will be on hand to advise on the management of any roots encountered and to ensure the approved tree protection methodology is fully adhered to. Roots smaller than 25mm in diameter can be cut with a clean sharp tool where they pose an obstruction.

Should significant roots (larger than 25mm diameter or large clumps of smaller roots) be encountered, these will be retained and wrapped in dampened hessian to prevent drying out and pipes will be routed around them wherever practicable. If significant roots are encountered which cannot be feasibly worked around and retained, appropriate action will be agreed with the Project Arboriculturist.

Pipes must be constructed to resist future incursion by tree roots.

All spoil/ arisings from excavation will be placed onto ground protection boards to prevent compaction, ground level changes and to assist in removal or reinstatement. Backfill is to utilise the excavated parent material where feasible, applied to restore the soil profile to its original structure (i.e., topsoil will be installed last) and must be lightly hand tamped only.

Services shall be installed following the principles set out in the National Joint Utilities Group (NJUG) Vol 4: Guidelines for the planning, installation, and maintenance of utility apparatus in proximity to trees (issue 2).

B23 Redundant utilities

Where existing services are to be removed, these must be winched out from an access/inspection chamber located outside of an RPA or left in situ.

Redundant pipework will be sealed off and will not be removed via excavation within the RPA of a retained tree.

Redundant pipework can be filled with an inert material or if confirmed to be fully watertight, may be filled with foamed concrete applied from an access point located outside the RPA of all retained trees. Concrete must be managed in accordance with section B18 of this Method Statement.

B24 Dismantling of tree protection measures

All protective fencing and ground protection must remain in place until all significant site works for a given location have been completed and approval has been obtained from the Project Arboriculturist.

Appendix C

Tree Protection Plan Drawings

- BCIDC-ARP-ENV_KP-1012_XX_00-DR-ES-0001
- BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001 to 0037



G:\global\projects\Dublin\jobs\268401-004 - Internal\4-02 Drawings\4-02 BCIDC\BCIDC-ARP-ENV_KP-1012_XX_00-DR-ES-0001.dwg

Disclaimers:
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the title block. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OS Grid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners, agents and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be as to, or accept any liability or responsibility in relation to the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

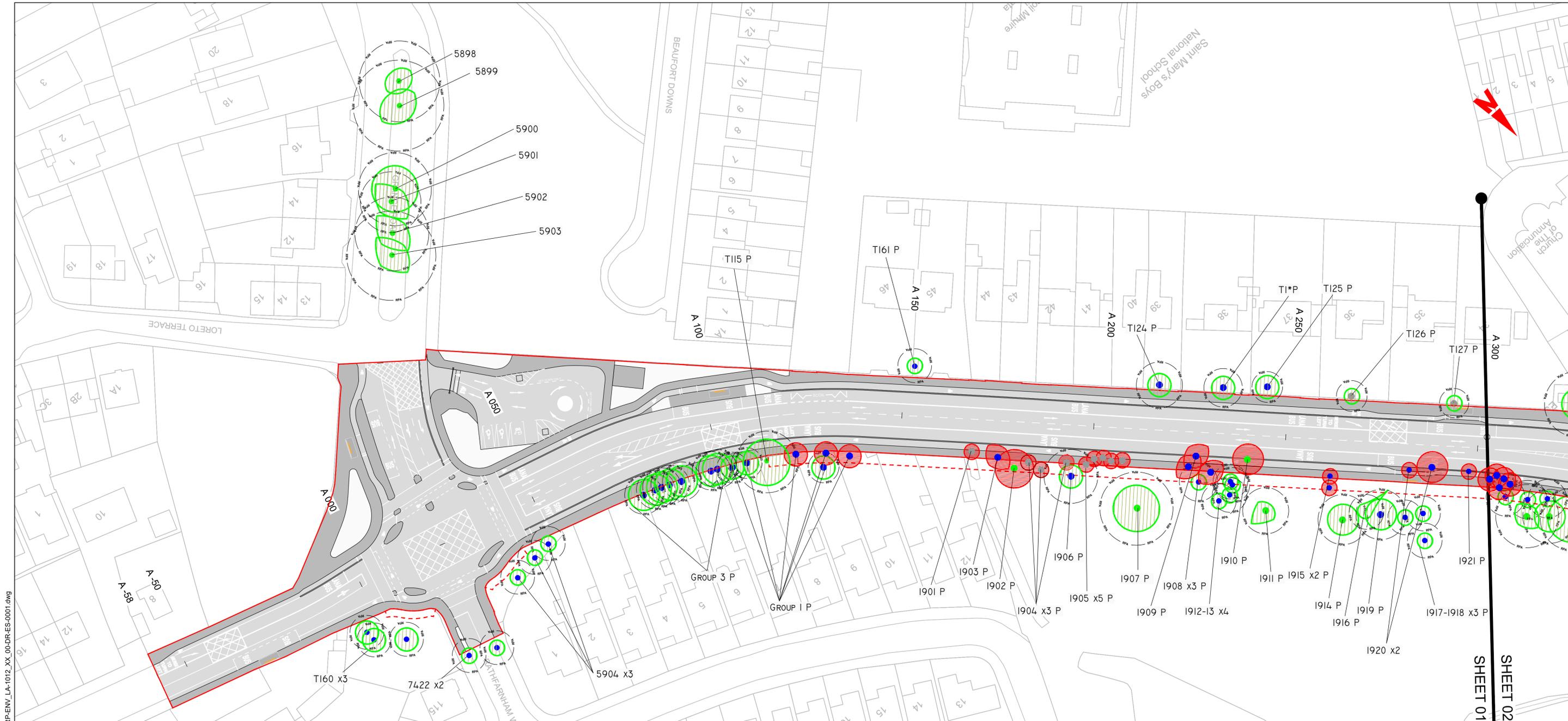
Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer: **ARUP**
 Drawn: JL
 Checked: MG
 Approved: DC

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN KEY PLAN	
Drawing File Name: BCIDC-ARP-ENV_KP-1012_XX_00-DR-ES-0001	Sheet Number: 01 of 01
Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

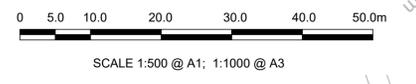
1. TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
2. TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
3. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
4. EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - Root Protection Area (RPA)

LEGEND CONTINUED:

- TREE TO BE RETAINED (Green circle with diagonal lines)
 - TREE TO BE REMOVED (Red circle with diagonal lines)
 - RETAIN GROUP (Green cloud shape)
 - REMOVE GROUP (Red cloud shape)
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3) (Green circle)
 - CATEGORY (B, B1, B2, B3) (Blue circle)
 - CATEGORY (C, C1, C2, C3) (Grey circle)
 - CATEGORY (U) (Red circle)
- SITE BOUNDARY LINE (Solid red line)
 - TEMPORARY LAND ACQUISITION (Dashed red line)



\global\europa\dublin\jobs\268401-0014_Intemat4-02 Drawings\4-02 BCID\BCID\012115 ENV\Drawings\DR\BCID\ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this information. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **ARUP**
ARBOR CARE
Design and Consulting Group

Date: 27/01/2023
Scale: 1:500 @ A1
1:1000 @ A3

Drawn: JL
Checked: MG
Approved: DC

Project Code: BCIDC
Originator Code: ARP
QMS Code: 268401-00

Programme Title: BUSCONNECTS DUBLIN			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001	Sheet Number: 01 of 37	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

GROUP 1 TREE / GROUP TAG NUMBER

P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).

* INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).

○ ROOT PROTECTION AREA

LEGEND CONTINUED:

○ TREE TO BE RETAINED

○ TREE TO BE REMOVED

○ RETAIN GROUP

○ REMOVE GROUP

TREE CATEGORY BASED ON BS:5837 2012 CRITERIA

● CATEGORY (A, A1, A2, A3)

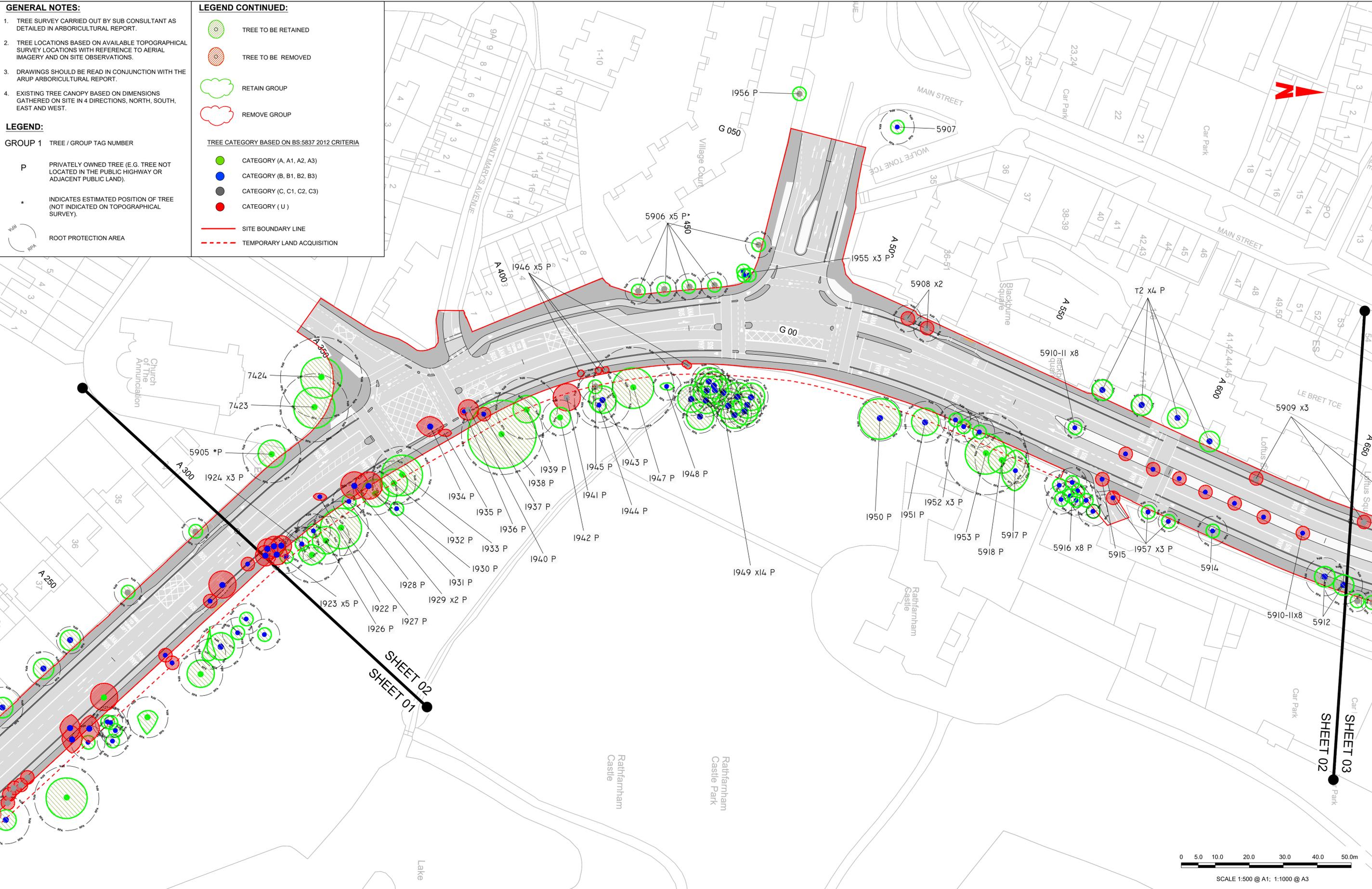
● CATEGORY (B, B1, B2, B3)

● CATEGORY (C, C1, C2, C3)

● CATEGORY (U)

— SITE BOUNDARY LINE

- - - TEMPORARY LAND ACQUISITION



I:\global\projects\268401-0014 - Internal\4-02 Drawings\4-02 BCID\BCID\012115 ENV\Drawings\DR\BCID\ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this information. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Project Ireland 2040
Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **ARUP**
ARUP
Designated Consulting Engineering Firm

Date: 27/01/2023
Scale: 1:500 @ A1
1:1000 @ A3

Drawn: JL
Checked: MG
Approved: DC

Project Code: BCIDC
Originator Code: ARP
QMS Code: 268401-00

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0002	Sheet Number 02 of 37	Status A	Rev M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE**
- TEMPORARY LAND ACQUISITION**

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this information. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Project Ireland 2040
Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
ARUP
ARBOR CARE
Designated Consulting Case Services

Date 27/01/2023
Scale 1:500 @ A1
1:1000 @ A3

Drawn JL
Checked MG
Approved DC

Project Code BCIDC
Originator Code ARP
QMS Code 268401-00

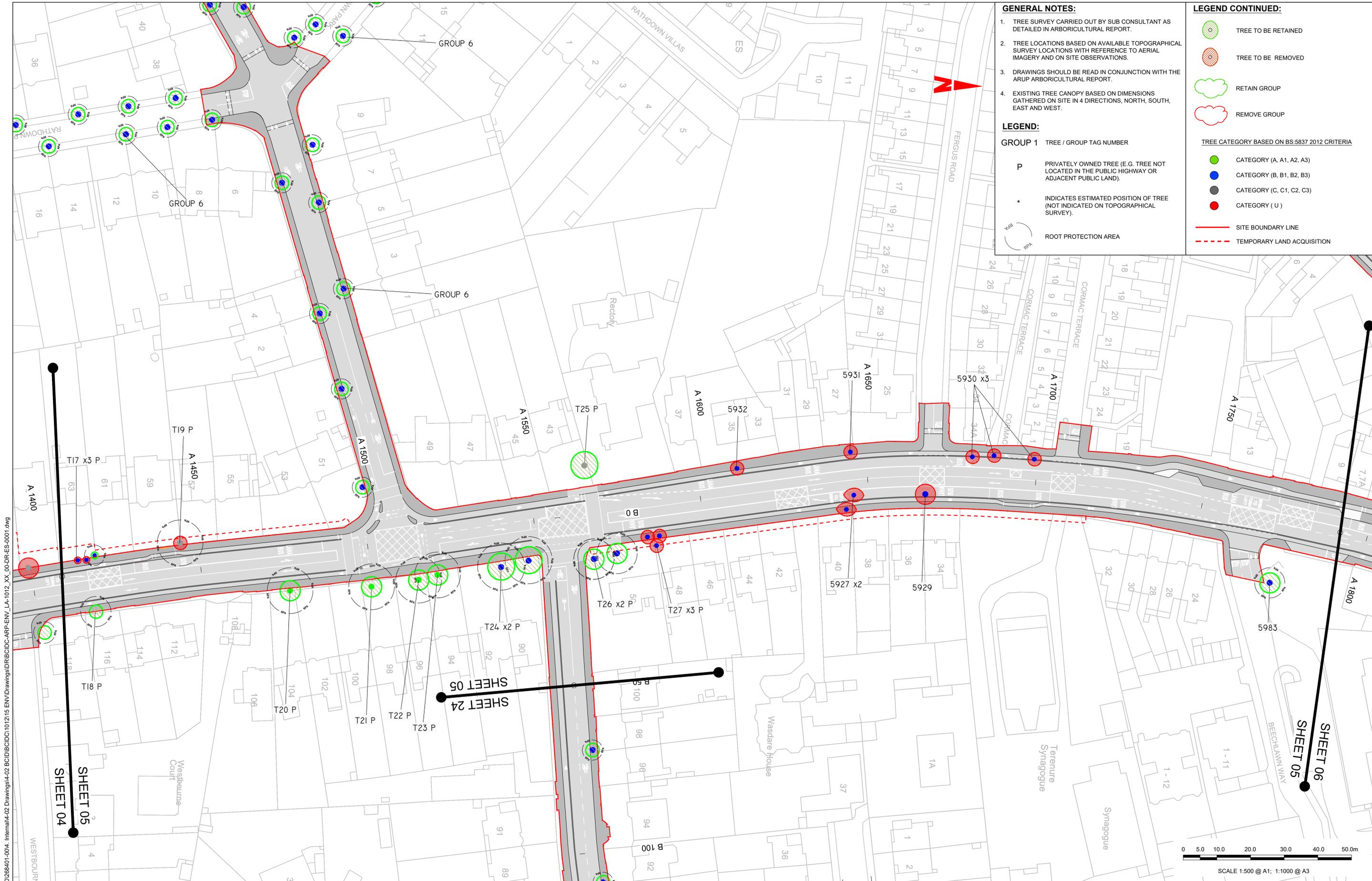
Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
TREE PROTECTION PLAN

Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0003
Sheet Number 03 of 37
Status A
Rev M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

I:\global\europel\jobs\268401-0014_Internet\4-02 Drawings\4-02 BCIDC\01\2115 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg



- GENERAL NOTES:**
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
 - TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
 - DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
 - EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.
- LEGEND:**
- GROUP 1 TREE / GROUP TAG NUMBER
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- ROOT PROTECTION AREA
- LEGEND CONTINUED:**
- TREE TO BE RETAINED
- TREE TO BE REMOVED
- RETAIN GROUP
- REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



I:\global\arup\jobs\268401-004 - Internat\4-02 Drawings\4-02 BCID\BCID\0101215 ENV\Drawings\DRB\DC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **ARUP**
ARUP Group Limited
Designated Consulting Engineering Firm

Date: 27/01/2023 Scale: 1:500 @ A1, 1:1000 @ A3
Drawn: JL, Checked: MG, Approved: DC

Project Code: BCIDC, Originator Code: ARP, QMS Code: 268401-00

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0005	Sheet Number: 05 of 37	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

GENERAL NOTES:

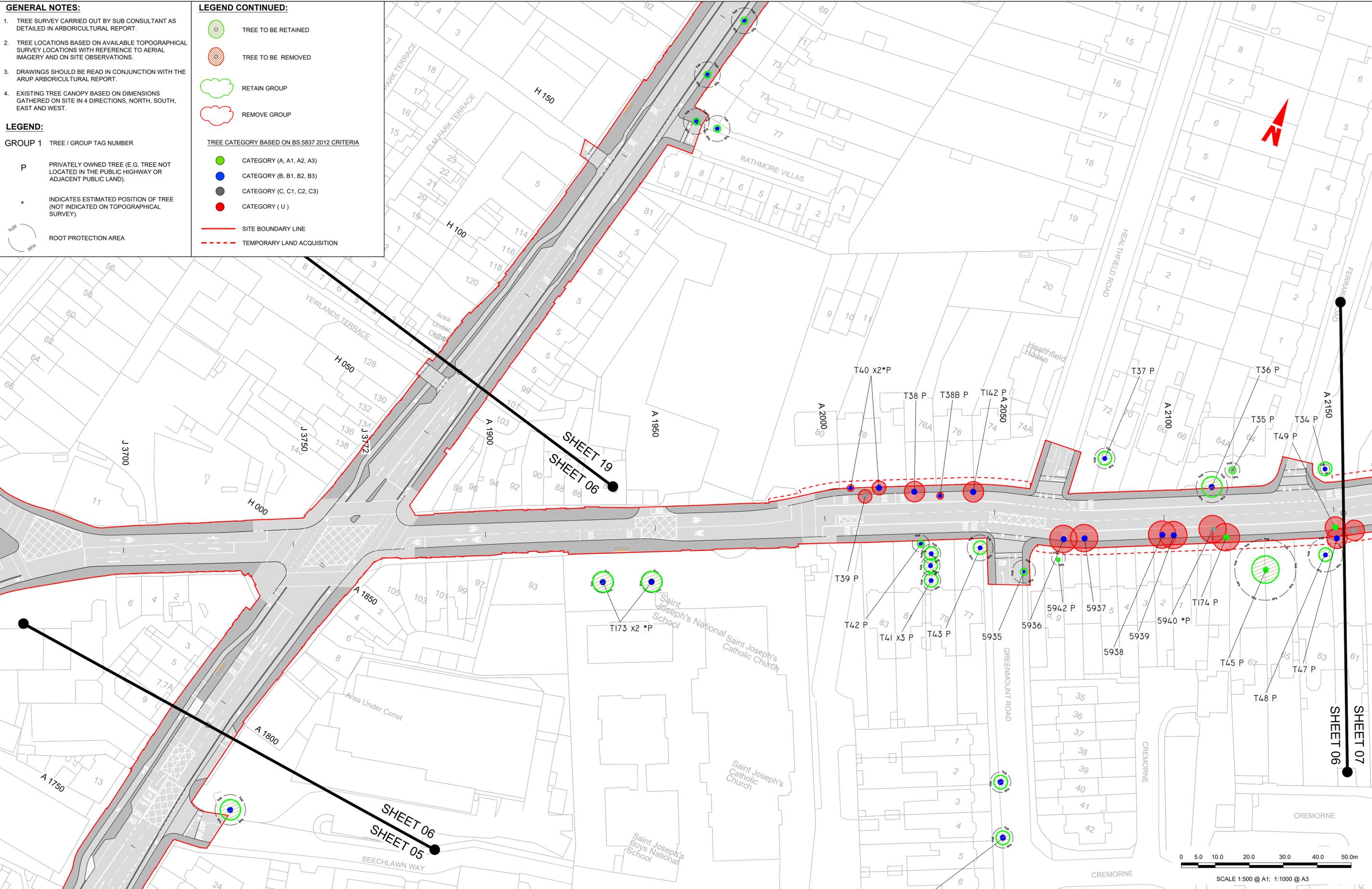
1. TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
2. TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
3. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
4. EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

LEGEND CONTINUED:

- TREE TO BE RETAINED
- TREE TO BE REMOVED
- RETAIN GROUP
- REMOVE GROUP
- CATEGORY (A, A1, A2, A3)
- CATEGORY (B, B1, B2, B3)
- CATEGORY (C, C1, C2, C3)
- CATEGORY (U)
- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Project Ireland 2040
Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
ARUP
ARBOR CARE
Design and Consulting Case Services

Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
TREE PROTECTION PLAN

Date 27/01/2023 **Scale** 1:500 @ A1
1:1000 @ A3

Project Code BCIDC **Originator Code** ARP **QMS Code** 268401-00

Drawn JL **Checked** MG **Approved** DC

Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0006 **Sheet Number** 06 of 37 **Status** A **Rev** M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - Root Protection Area (RPA)

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
 e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Project Ireland 2040
 Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client		Engineering Designer	
NTA Udarás Náisiúnta Iompair National Transport Authority		ARUP ARBOR CARE Design and Consulting Group	
Date	Scale	Drawn	Checked
27/01/2023	1:500 @ A1 1:1000 @ A3	JL	MG
Project Code	Originator Code	QMS Code	Approved
BCIDC	ARP	268401-00	DC

Programme Title		Drawing Title	
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS		TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN	
Drawing File Name	Sheet Number	Status	Rev
BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0008	08 of 37	A	M01

0 5.0 10.0 20.0 30.0 40.0 50.0m
 SCALE 1:500 @ A1; 1:1000 @ A3

GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

GROUP 1 TREE / GROUP TAG NUMBER

- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).



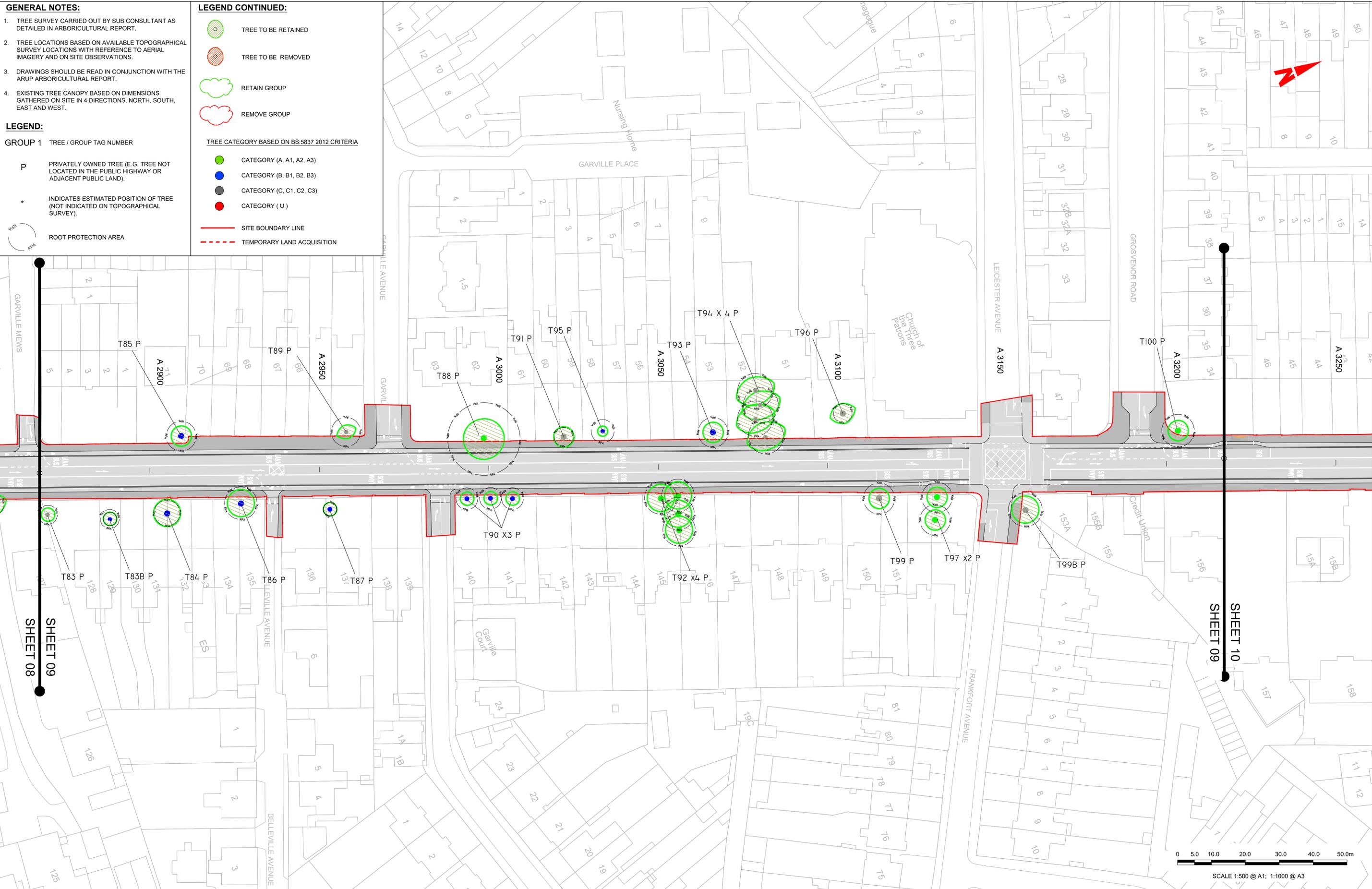
LEGEND CONTINUED:

- TREE TO BE RETAINED
- TREE TO BE REMOVED
- RETAIN GROUP
- REMOVE GROUP

TREE CATEGORY BASED ON BS:5837 2012 CRITERIA

- CATEGORY (A, A1, A2, A3)
- CATEGORY (B, B1, B2, B3)
- CATEGORY (C, C1, C2, C3)
- CATEGORY (U)

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



\\global\arup\proj\268401-004 - Internal\4-02 Drawings\4-02 BCID\BCID\01012115 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSi Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
ARUP
 ARBOR CARE
 Design and
 Consulting
 Tree Science

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN	
Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0009	Sheet Number 09 of 37
Status A	Rev M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

1. TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
2. TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
3. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
4. EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - ⊙ ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

\global\arup\jobs\268401-0014_Intemat4-02 Drawings\4-02 BCID\BCID\101215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg
 268401-0014_Intemat4-02 Drawings\4-02 BCID\BCID\101215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimers

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the title block. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer: **ARUP**
 ARUP
 Design and Consulting Group

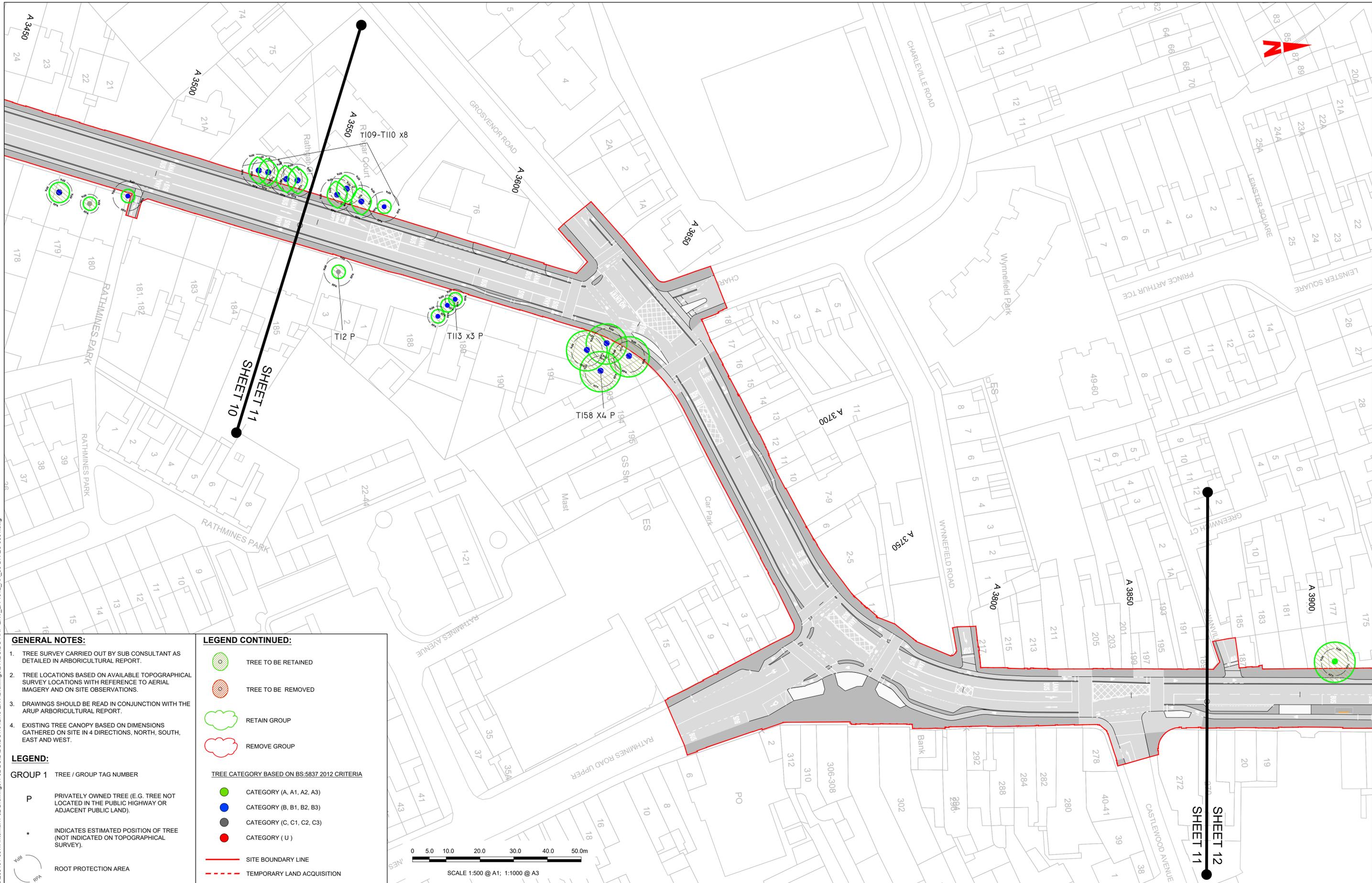
Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN**

Date: 27/01/2023	Scale: 1:500 @ A1, 1:1000 @ A3	Drawn: JL	Checked: MG	Approved: DC
Project Code: BCIDC	Originator Code: ARP	QMS Code: 268401-00		

Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0010	Sheet Number: 10 of 37	Status: A	Rev: M01
-----------------------------------------------------------	------------------------	-----------	----------

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

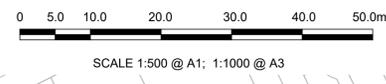
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - - - TEMPORARY LAND ACQUISITION



Disclaimer
a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
ARUP
ARUP CONSULTANTS
Design and
Consultancy
Case Science

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN	
Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0011	Sheet Number 11 of 37
Status A	Rev M01

I:\global\arup\Dublin\jobs\268401-0014_Intemat\4-02 Drawings\4-02 BCID\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0011.dwg



GENERAL NOTES:

1. TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
2. TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
3. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
4. EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
ARUP
ARBOR CARE
Development Consulting Case Science

Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
TREE PROTECTION PLAN

Date 27/01/2023 **Scale** 1:500 @ A1
1:1000 @ A3

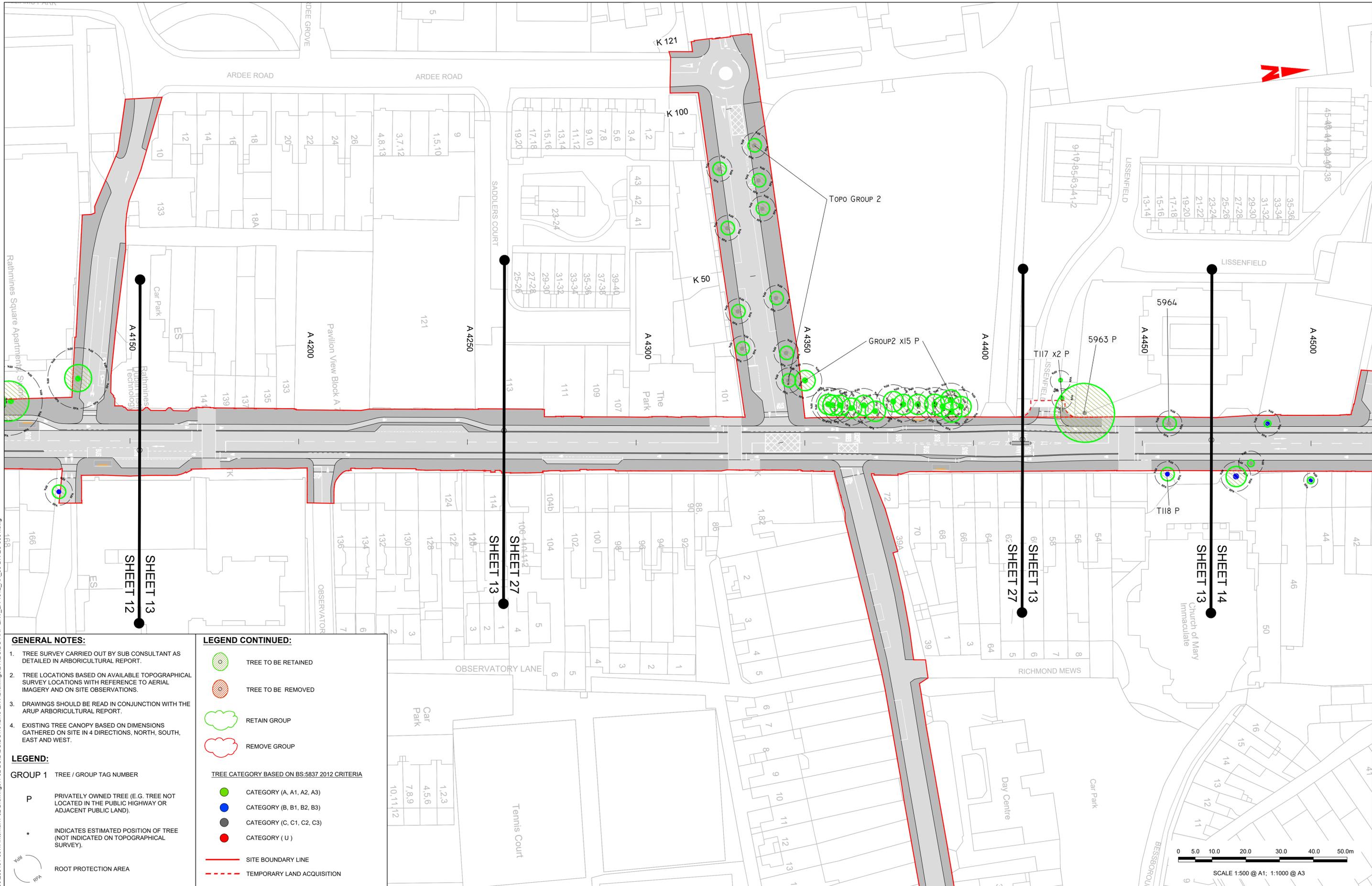
Drawn JL **Checked** MG **Approved** DC

Project Code BCIDC **Originator Code** ARP **QMS Code** 268401-00

Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0012 **Sheet Number** 12 of 37 **Status** A **Rev** M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\europa\dublin\jobs\268401-0014_Interna\4-02 Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg



GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
 e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
 NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
 ARUP
 ARBOR CARE
 Design and
 Consulting Case Science

Programme Title
 BUSCONNECTS DUBLIN
 CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
 TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
 TREE PROTECTION PLAN

Date	27/01/2023	Scale	1:500 @ A1 1:1000 @ A3	Drawn	JL	Checked	MG	Approved	DC
Project Code	BCIDC	Originator Code	ARP	QMS Code	268401-00				

Drawing File Name	BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0013	Sheet Number	13 of 37	Status	A	Rev	M01
-------------------	----------------------------------------	--------------	----------	--------	---	-----	-----

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

I:\global\arup\jobs\268401-0014_Intemat\4-02 Drawings\4-02 BCIDC\01012115 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0013.dwg

GENERAL NOTES:

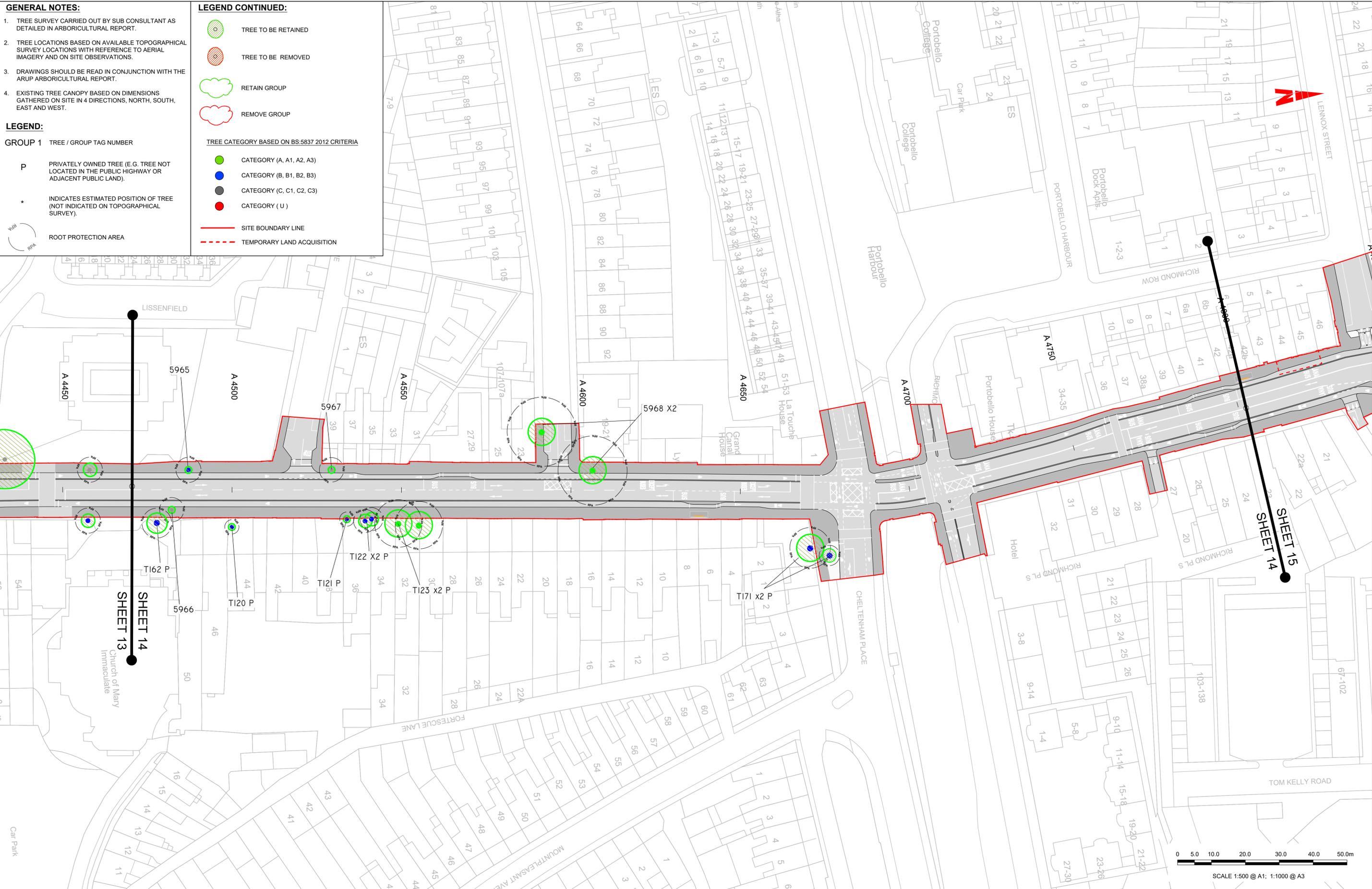
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - - - TEMPORARY LAND ACQUISITION



I:\global\projects\268401-004 - Internal\4-02 Drawings\4-02 BCID\BCID\1012\15 ENV\Drawings\DR\BCID-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimers
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the title block. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
ARUP
 ARUP CONSULTANTS
 Design and
 Consulting
 Case Science

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN	
Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0014	Sheet Number 14 of 37
Status A	Rev M01

Date 27/01/2023	Scale 1:500 @ A1 1:1000 @ A3	Drawn JL	Checked MG	Approved DC
Project Code BCIDC	Originator Code ARP	QMS Code 268401-00		

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area**

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Project Ireland 2040
Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

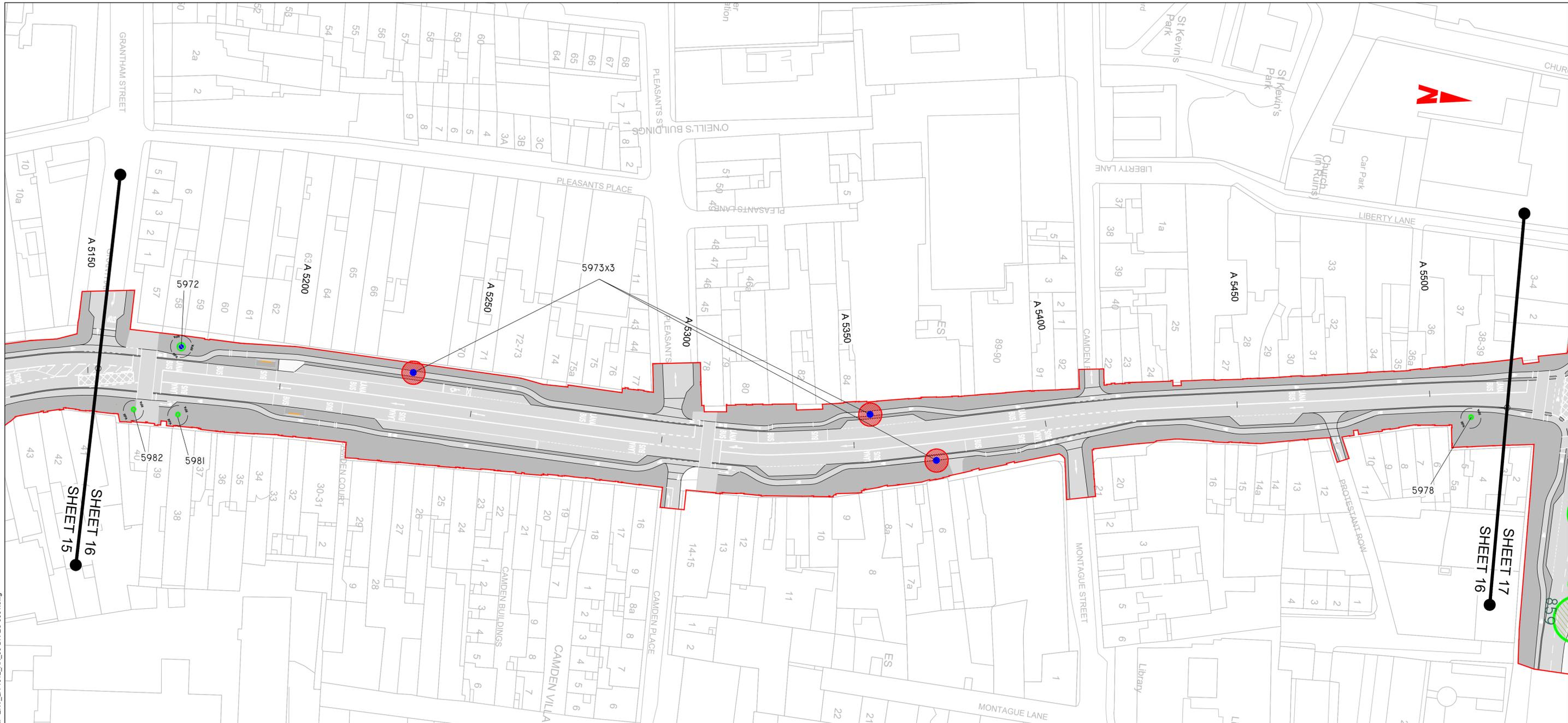
Client		Engineering Designer		Programme Title	
NTA Údarás Náisiúnta Iompair National Transport Authority		ARUP		BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Date	Scale	Drawn	Checked	Approved	
27/01/2023	1:500 @ A1 1:1000 @ A3	JL	MG	DC	
Project Code	Originator Code	QMS Code			
BCIDC	ARP	268401-00			

Drawing File Name	Sheet Number	Status	Rev
BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0015	15 of 37	A	M01

Scale 1:500 @ A1; 1:1000 @ A3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

I:\global\arup\p\jobs\268401-0014_Interna\4-02 Drawings\4-02 BCID\BCID\0101215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg



GENERAL NOTES:

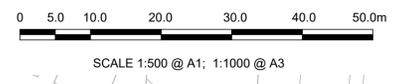
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

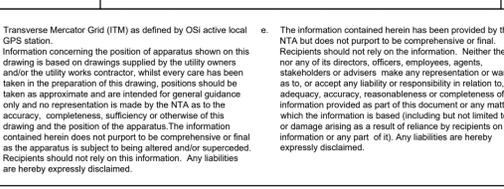
- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- X** **PPA** ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



Disclaimer
a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **ARUP**

Date: 27/01/2023 | Scale: 1:500 @ A1, 1:1000 @ A3 | Drawn: JL | Checked: MG | Approved: DC

Project Code: BCIDC | Originator Code: ARP | QMS Code: 268401-00

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0016	Sheet Number: 16 of 37	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\europa\dublin\jobs\268401-0014_Intemat\4-02 Drawings\4-02 BCIDC\0101215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

GENERAL NOTES:

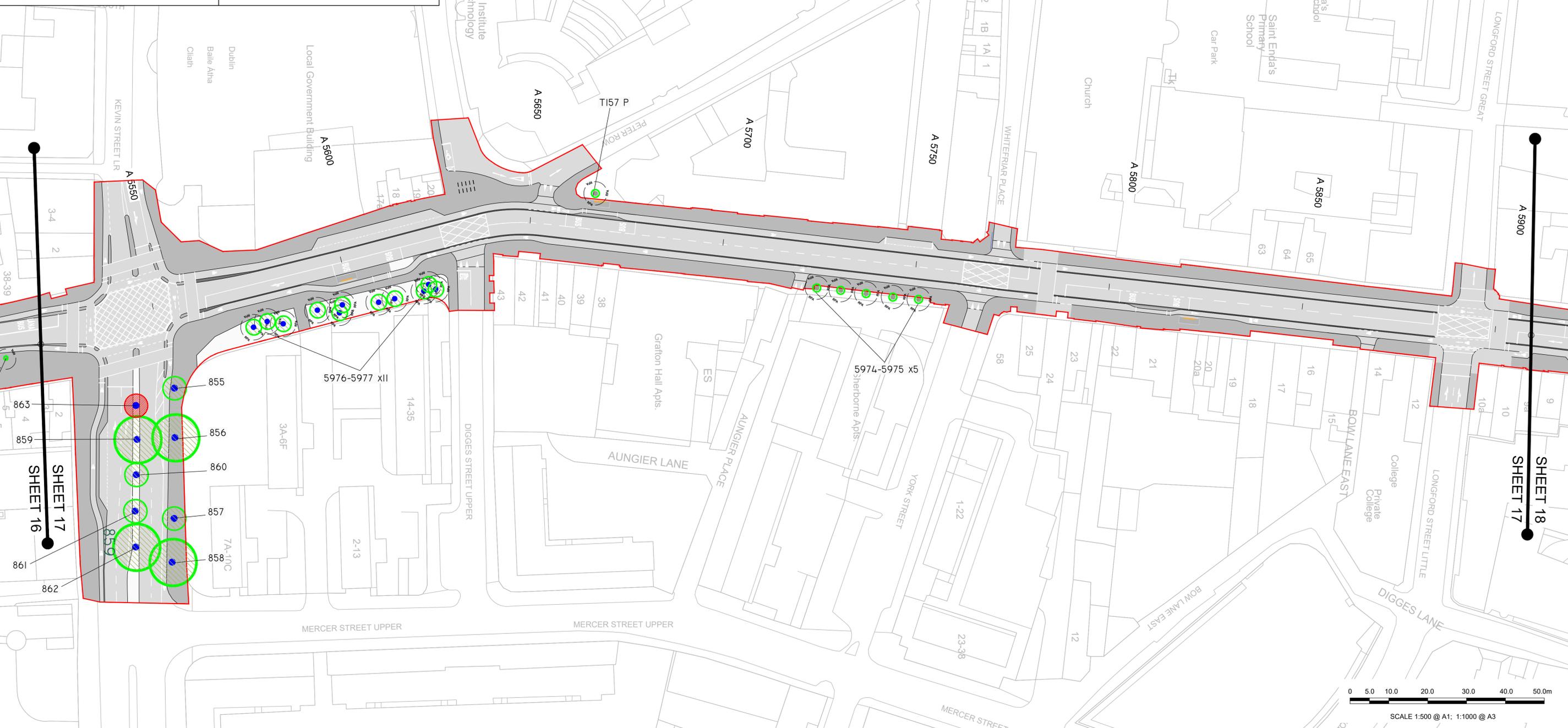
1. TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
2. TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
3. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
4. EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- RPK** ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
 e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Project Ireland 2040
 Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
ARUP
 ARUP Group Limited
 Designated Consulting Engineering Firm

Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
 TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
 TREE PROTECTION PLAN

Date 27/01/2023 **Scale** 1:500 @ A1
 1:1000 @ A3 **Drawn** JL **Checked** MG **Approved** DC

Project Code BCIDC **Originator Code** ARP **QMS Code** 268401-00

Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0017 **Sheet Number** 17 of 37 **Status** A **Rev** M01

<p>Rev M01 Date 27/01/2023 Drn JL Chk'd MG App'd DC</p> <p>Description ISSUE FOR PHASE 4: PLANNING</p>		<p>Client NTA Údarás Náisiúnta Iompair National Transport Authority</p>		<p>Engineering Designer ARUP ARUP Group Limited Designated Consulting Engineering Firm</p>		<p>Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</p>	
<p>Date 27/01/2023 Scale 1:500 @ A1 1:1000 @ A3</p>		<p>Drawn JL Checked MG Approved DC</p>		<p>Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN</p>		<p>Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0017</p>	
<p>Project Code BCIDC Originator Code ARP</p>		<p>QMS Code 268401-00</p>		<p>Sheet Number 17 of 37</p>		<p>Status A Rev M01</p>	

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

I:\global\arup\duplin\jobs\268401-00\4. Internal\4-02 Drawings\4-02 BCIDC\BCIDC\101215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-001.dwg

GENERAL NOTES:

1. TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
2. TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
3. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
4. EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - Root Protection Area (RPA) symbol

LEGEND CONTINUED:

- TREE TO BE RETAINED (Green circle with diagonal lines)
- TREE TO BE REMOVED (Red circle with diagonal lines)
- RETAIN GROUP (Green cloud)
- REMOVE GROUP (Red cloud)
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA
 - CATEGORY (A, A1, A2, A3) (Green circle)
 - CATEGORY (B, B1, B2, B3) (Blue circle)
 - CATEGORY (C, C1, C2, C3) (Grey circle)
 - CATEGORY (U) (Red circle)
- SITE BOUNDARY LINE (Red solid line)
- TEMPORARY LAND ACQUISITION (Red dashed line)



I:\global\arup\jobs\268401-004 - Internal\4-02 Drawings\4-02 BCID\BCID\101215 ENV\Drawings\DR\BCID-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer ARUP ARBOR CARE Design and Consulting Case Science		
Date	Scale	Drawn	Checked	Approved
27/01/2023	1:500 @ A1 1:1000 @ A3	JL	MG	DC
Project Code	Originator Code	QMS Code	268401-00	
BCIDC	ARP			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name	Sheet Number	Status	Rev
BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0019	19 of 37	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

Disclaimer

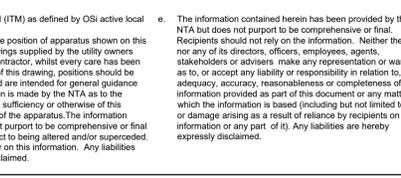
a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client

NTA
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer

ARUP
ARBOR CARE
Development Consulting Case Services

Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
TREE PROTECTION PLAN

Date	27/01/2023	Scale	1:500 @ A1 1:1000 @ A3	Drawn	JL	Checked	MG	Approved	DC					
Project Code	BCIDC	Originator Code	ARP	QMS Code	268401-00		Drawing File Name	BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0020	Sheet Number	20 of 37	Status	A	Rev	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\arup\proj\268401-00\4 - Internal\4-02 Drawings\4-02 BCID\BCID\01012115 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg



GENERAL NOTES:

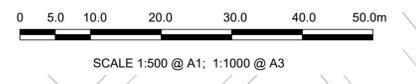
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- X** **PPA** ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **ARUP**
ARUP
Design and Consulting Group

Date: 27/01/2023
Scale: 1:500 @ A1
1:1000 @ A3

Drawn: JL
Checked: MG
Approved: DC

Project Code: BCIDC
Originator Code: ARP
QMS Code: 268401-00

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0021	Sheet Number: 21 of 37	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\arup\jobs\268401-0014_Intemat\4-02 Drawings\4-02 BCID\BCID\101215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- RP** ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE**
- TEMPORARY LAND ACQUISITION**



\\global\arup\arup\dublin\jobs\268401-0014_Interna\4-02 Drawings\4-02 BCID\BCID\01215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **ARUP**

Date: 27/01/2023 | Scale: 1:500 @ A1, 1:1000 @ A3

Drawn: JL | Checked: MG | Approved: DC

Project Code: BCIDC | Originator Code: ARP | QMS Code: 268401-00

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0022	Sheet Number: 22 of 37	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

GENERAL NOTES:

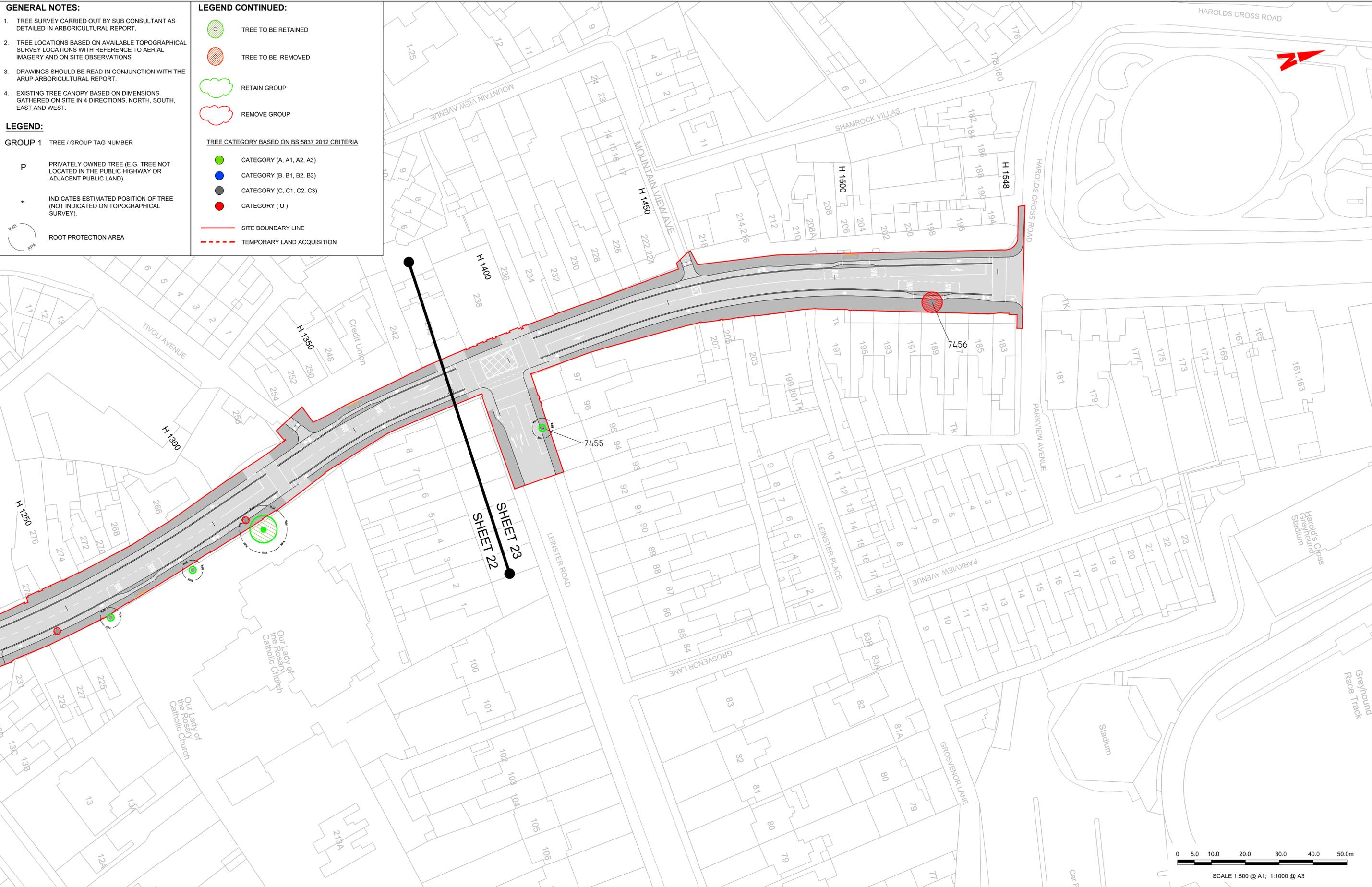
1. TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
2. TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
3. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
4. EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- RPK** ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
TEMPORARY LAND ACQUISITION



\global\europa\dublin\jobs\268401-0014 - Internal\4-02 Drawings\4-02 BCID\BCID\101215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer

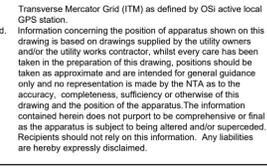
a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
ARUP

Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
TREE PROTECTION PLAN

Date 27/01/2023 **Scale** 1:500 @ A1
1:1000 @ A3

Drawn JL **Checked** MG **Approved** DC

Project Code BCIDC **Originator Code** ARP **QMS Code** 268401-00

Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0023 **Sheet Number** 23 of 37 **Status** A **Rev** M01

Scale 1:500 @ A1; 1:1000 @ A3

Scale Bar 0 5.0 10.0 20.0 30.0 40.0 50.0m

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - Root Protection Area (RPA) symbol

LEGEND CONTINUED:

- TREE TO BE RETAINED (Green circle with crosshairs)
 - TREE TO BE REMOVED (Red circle with crosshairs)
 - RETAIN GROUP (Green cloud)
 - REMOVE GROUP (Red cloud)
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3) (Green circle)
 - CATEGORY (B, B1, B2, B3) (Blue circle)
 - CATEGORY (C, C1, C2, C3) (Grey circle)
 - CATEGORY (U) (Red circle)
- SITE BOUNDARY LINE (Red solid line)
 - TEMPORARY LAND ACQUISITION (Red dashed line)



Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this information. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
 e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Project Ireland 2040
 Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
 NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
 ARUP
 ARBOR CARE
 Design and
 Consulting
 Tree Care Services

Date 27/01/2023 **Scale** 1:500 @ A1
 1:1000 @ A3 **Drawn** JL **Checked** MG **Approved** DC

Project Code BCIDC **Originator Code** ARP **QMS Code** 268401-00

Programme Title
 BUSCONNECTS DUBLIN
 CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
 TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
 TREE PROTECTION PLAN

Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0024 **Sheet Number** 24 of 37 **Status** A **Rev** M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\arup\dublin\jobs\268401-004 - Internal\4-02 Drawings\4-02 BCIDC\DC\101215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

GROUP 1 TREE / GROUP TAG NUMBER

- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
-
- ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
- TREE TO BE REMOVED
- RETAIN GROUP
- REMOVE GROUP

TREE CATEGORY BASED ON BS:5837 2012 CRITERIA

- CATEGORY (A, A1, A2, A3)
- CATEGORY (B, B1, B2, B3)
- CATEGORY (C, C1, C2, C3)
- CATEGORY (U)

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



\\global\arup\arup\dublin\jobs\268401-0014 - Internal\4-02 Drawings\4-02 BCID\BCID\101215 ENV\Drawings\DR\BCID-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Engineering Designer ARUP ARUP Design and Consultancy Group		
Date 27/01/2023	Scale 1:500 @ A1 1:1000 @ A3	Drawn JL	Checked MG	Approved DC
Project Code BCIDC	Originator Code ARP	QMS Code 268401-00		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN				
Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0025	Sheet Number 25 of 37	Status A	Rev M01	

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

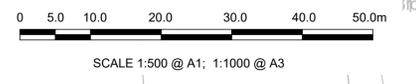
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client

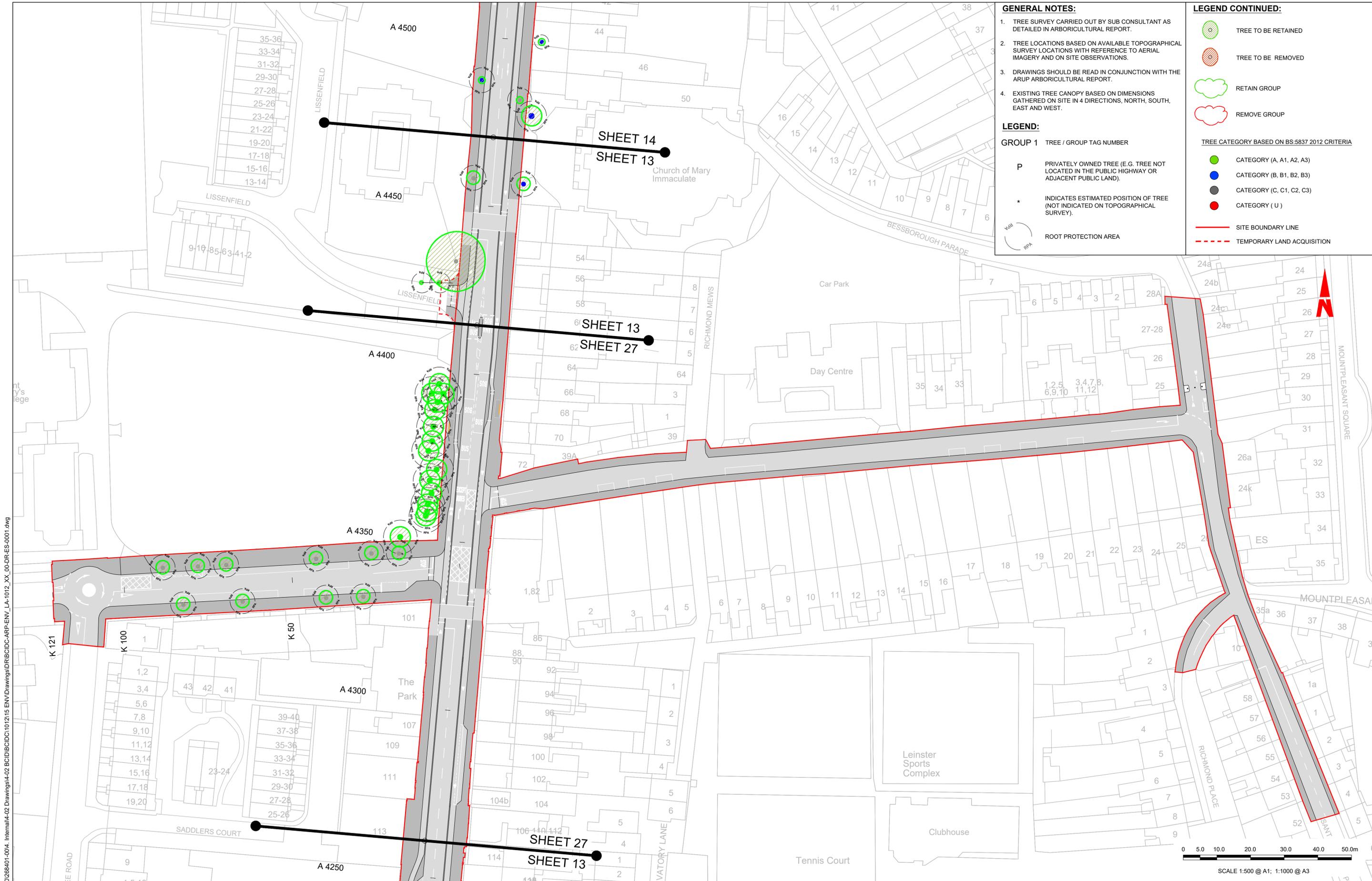
Engineering Designer

Drawn: JL, Checked: MG, Approved: DC

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0026	Sheet Number 26 of 37	Status A	Rev M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\arup\dublin\jobs\268401-0014_Intemat\4-02 Drawings\4-02 BCID\BCID\101215 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg



- GENERAL NOTES:**
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
 - TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
 - DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
 - EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.
- LEGEND:**
- GROUP 1 TREE / GROUP TAG NUMBER
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA) symbol: a circle with 'RPA' and 'Tree' labels.
- LEGEND CONTINUED:**
- TREE TO BE RETAINED (Green circle with diagonal lines)
 - TREE TO BE REMOVED (Red circle with diagonal lines)
 - RETAIN GROUP (Green outline)
 - REMOVE GROUP (Red outline)
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3) (Green dot)
 - CATEGORY (B, B1, B2, B3) (Blue dot)
 - CATEGORY (C, C1, C2, C3) (Grey dot)
 - CATEGORY (U) (Red dot)
- SITE BOUNDARY LINE (Red solid line)
 - - - TEMPORARY LAND ACQUISITION (Red dashed line)

\global\arup\arup\dublin\jobs\268401-004 - Internal\4-02 Drawings\4-02 BCID\BCID\101215 ENV\Drawings\DR\BCID\ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer: **ARUP**
 ARUP
 Design and Consulting Group

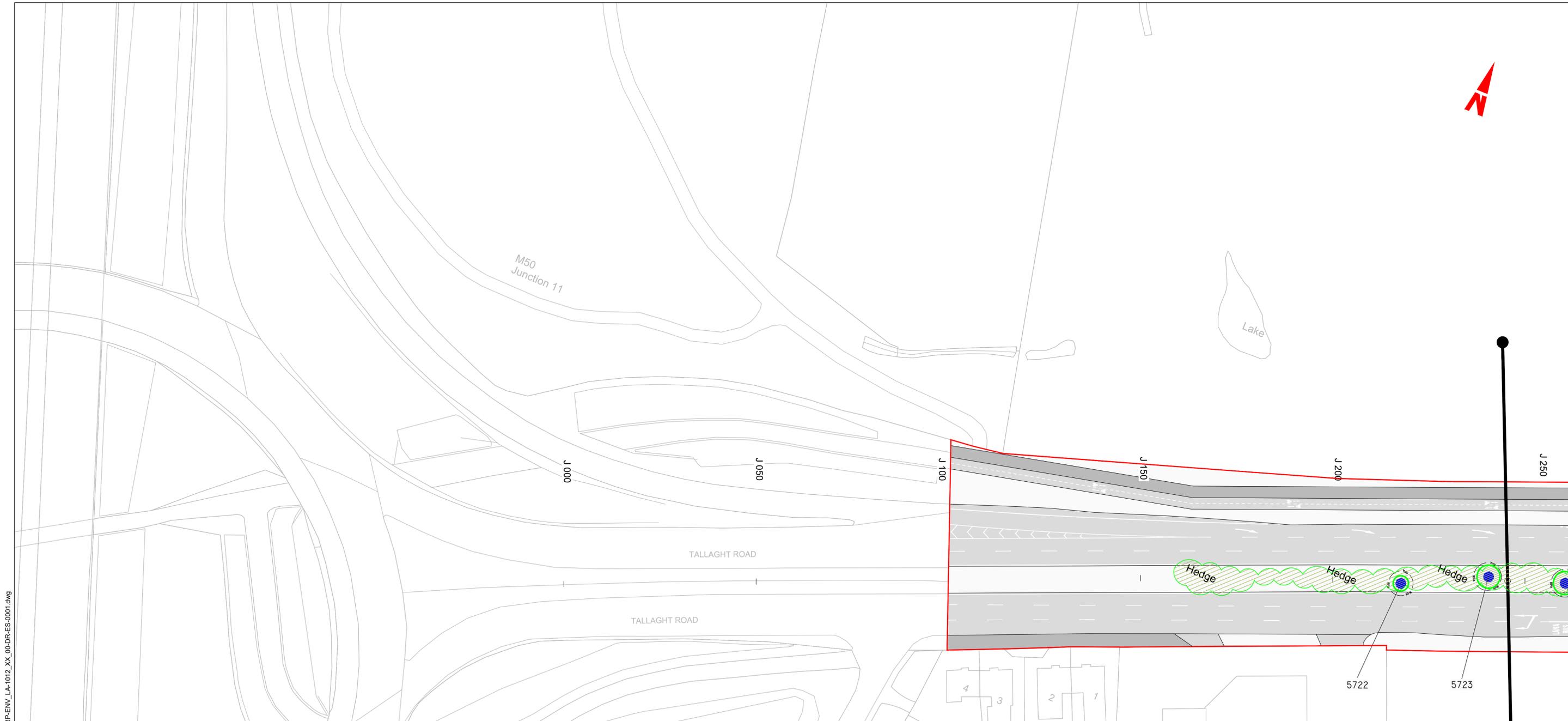
Date: 27/01/2023
 Scale: 1:500 @ A1
 1:1000 @ A3

Drawn: JL
 Checked: MG
 Approved: DC

Project Code: BCIDC
 Originator Code: ARP
 QMS Code: 268401-00

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0027	Sheet Number 27 of 37	Status A	Rev M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

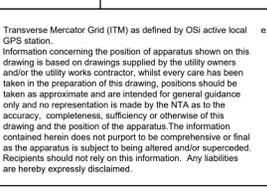
LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE**
- TEMPORARY LAND ACQUISITION**



SHEET 28
SHEET 29

Disclaimer
a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
ARUP
ARBOR CARE
Design and Consulting
Consulting Case Services

Date	27/01/2023	Scale	1:500 @ A1 1:1000 @ A3	Drawn	JL	Checked	MG	Approved	DC
Project Code	BCIDC	Originator Code	ARP	QMS Code	268401-00				

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name	BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0028	Sheet Number	28 of 37
Status	A	Rev	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\arup\arup\dublin\jobs\268401-0014_Intemat4-02 Drawings\4-02 BCIDC\01\2115 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

GENERAL NOTES:

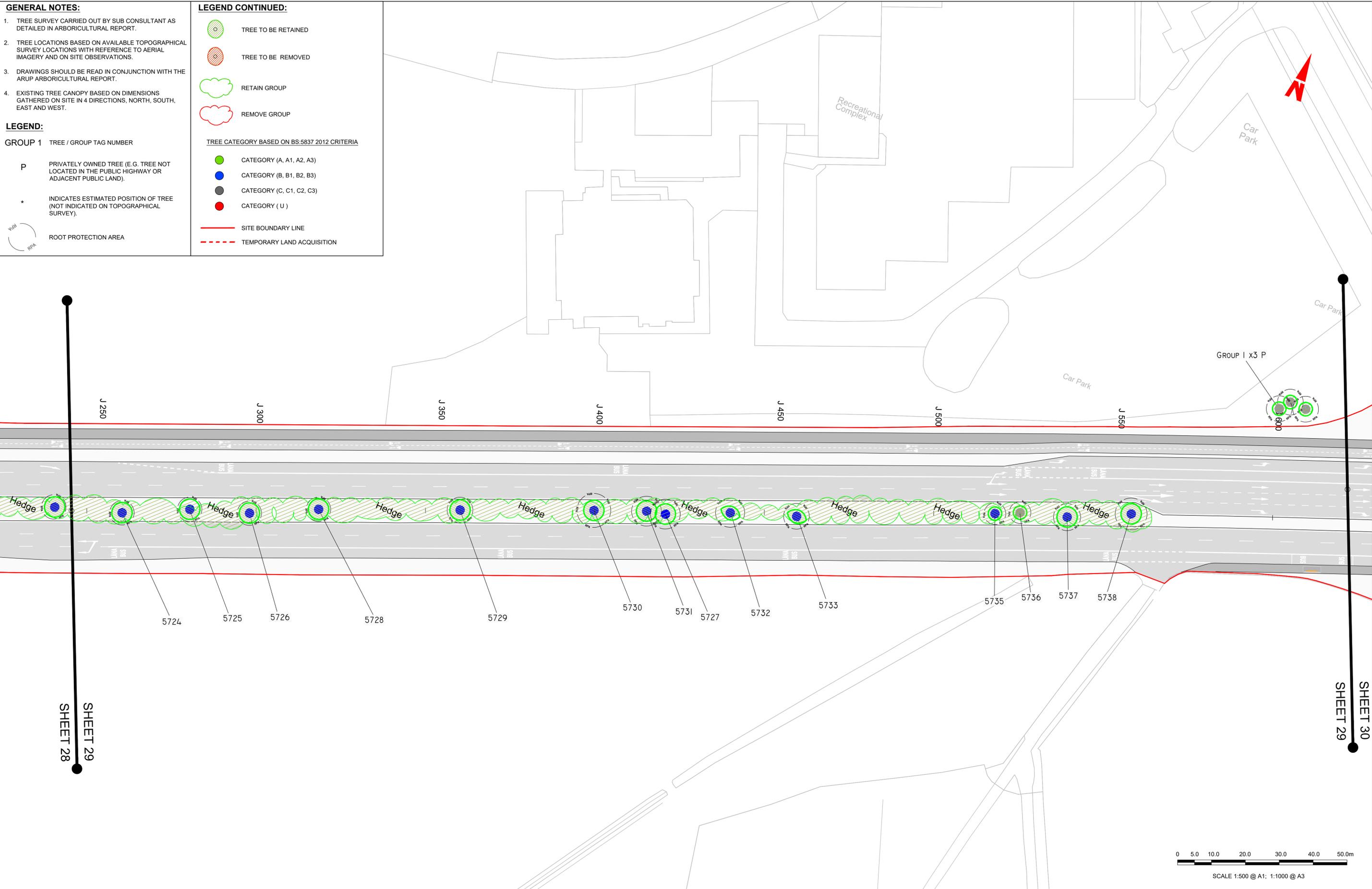
1. TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
2. TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
3. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
4. EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
-
- ROOT PROTECTION AREA

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



I:\global\arup\Dublin\jobs\268401-0014_Intemat\4-02 Drawings\4-02 BCID\BCID\01\2\15 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
 e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer: **ARUP**
 Design and Consulting Group

Date: 27/01/2023 | Scale: 1:500 @ A1, 1:1000 @ A3 | Drawn: JL | Checked: MG | Approved: DC

Project Code: BCIDC | Originator Code: ARP | QMS Code: 268401-00

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0029	Sheet Number: 29 of 37	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

GENERAL NOTES:

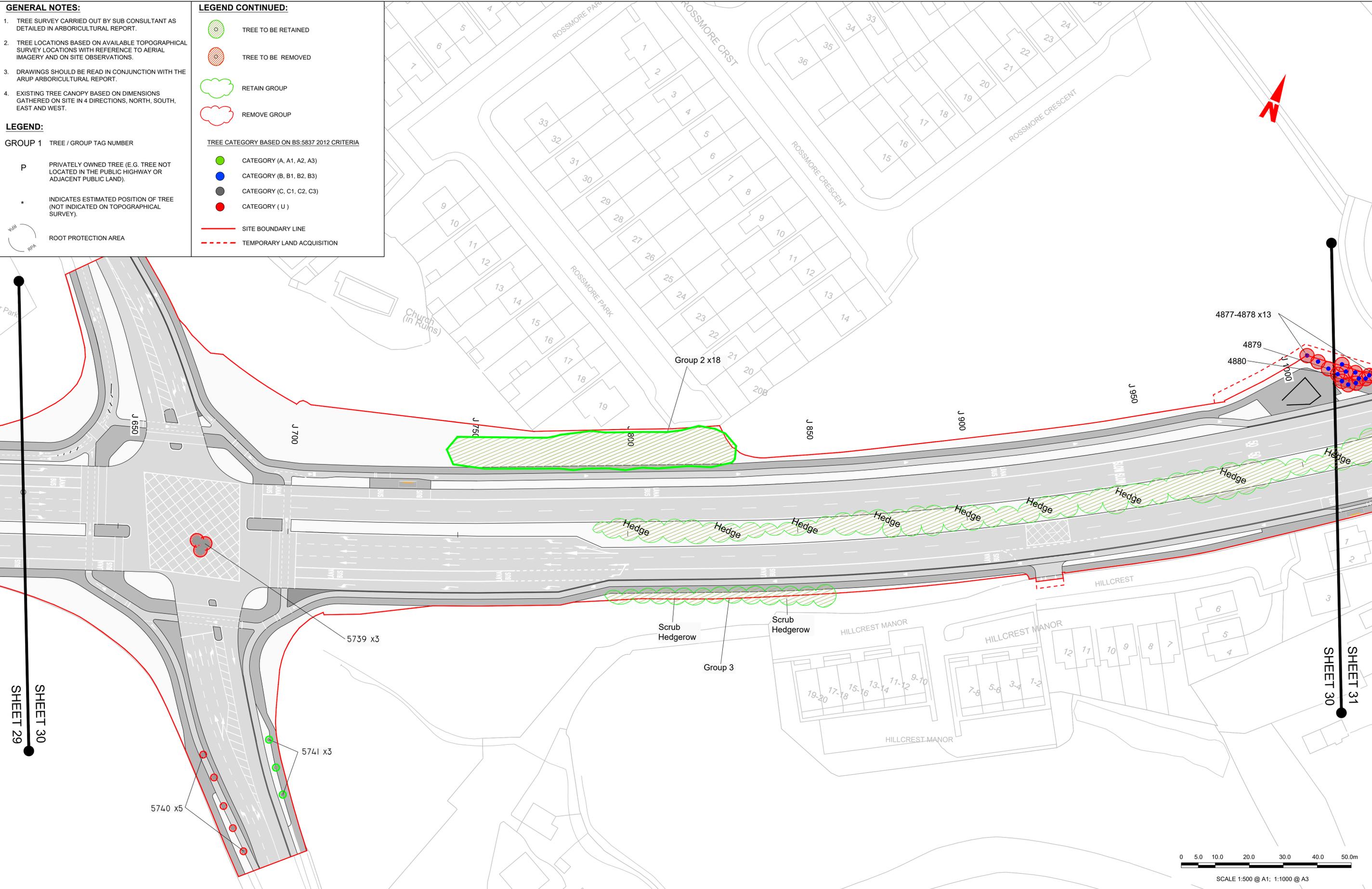
1. TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
2. TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
3. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
4. EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - Root Protection Area (RPA)

LEGEND CONTINUED:

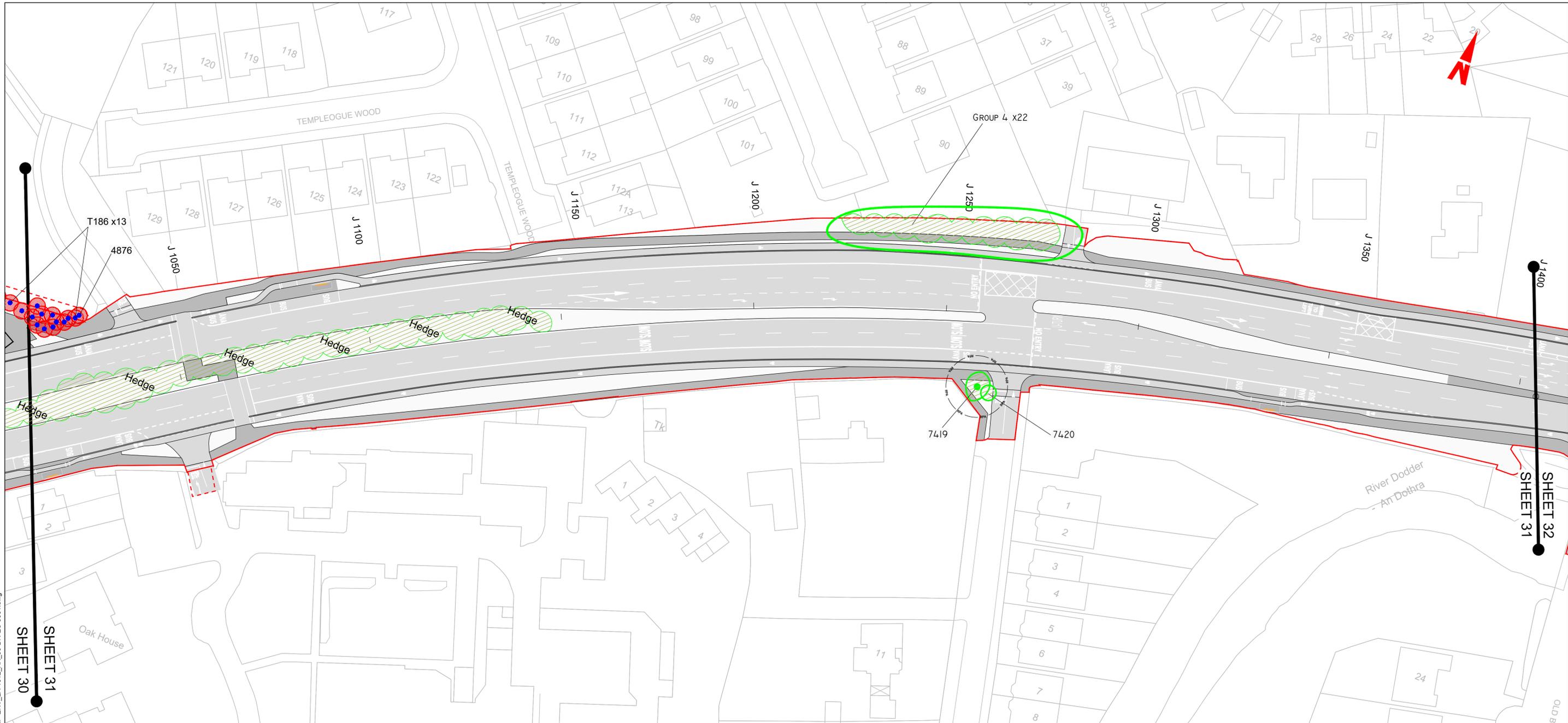
- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



\global\arup\arup\jobs\268401-0014_Intemat4-02 Drawings\DRB\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg
 SHEET 29
 SHEET 30
 SHEET 30
 SHEET 31

<p>Disclaimer</p> <p>a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.</p> <p>b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.</p> <p>c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.</p> <p>d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.</p> <p>e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.</p>		<p>Rev M01 Date 27/01/2023 Dm JL Chk'd MG App'd DC Description ISSUE FOR PHASE 4: PLANNING</p>		<p>Client NTA Udarás Náisiúnta Iompair National Transport Authority</p>		<p>Engineering Designer ARUP</p>		<p>Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</p>	
<p>Date 27/01/2023 Scale 1:500 @ A1 1:1000 @ A3</p>		<p>Drawn JL Checked MG Approved DC</p>		<p>Project Code BCIDC Originator Code ARP QMS Code 268401-00</p>		<p>Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0030</p>		<p>Sheet Number 30 of 37 Status A Rev M01</p>	

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE**
- TEMPORARY LAND ACQUISITION**

Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
 e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Project Ireland 2040
 Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
ARUP
 ARUP CONSULTANTS
 Design and
 Consulting
 Civil Services

Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
 TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
 TREE PROTECTION PLAN

Date 27/01/2023 **Scale** 1:500 @ A1
 1:1000 @ A3 **Drawn** JL **Checked** MG **Approved** DC

Project Code BCIDC **Originator Code** ARP **QMS Code** 268401-00

Drawing File Name BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0031 **Sheet Number** 31 of 37 **Status** A **Rev** M01

Scale 1:500 @ A1; 1:1000 @ A3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\global\europa\dublin\jobs\268401-0014_Intemat\4-02 Drawings\4-02 BCIDC\01012115 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg
 SHEET 30 SHEET 31 SHEET 32 SHEET 31



GENERAL NOTES:

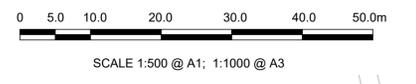
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

LEGEND CONTINUED:

- TREE TO BE RETAINED** (Green circle with diagonal lines)
- TREE TO BE REMOVED** (Red circle with diagonal lines)
- RETAIN GROUP** (Green cloud shape)
- REMOVE GROUP** (Red cloud shape)
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- GREEN** CATEGORY (A, A1, A2, A3)
 - BLUE** CATEGORY (B, B1, B2, B3)
 - BLACK** CATEGORY (C, C1, C2, C3)
 - RED** CATEGORY (U)
- SITE BOUNDARY LINE** (Solid red line)
- TEMPORARY LAND ACQUISITION** (Dashed red line)



Disclaimer

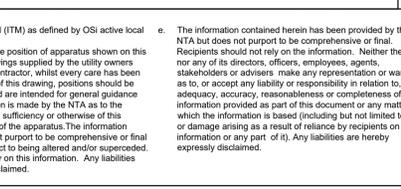
a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA** Údarás Náisiúnta Iompair National Transport Authority

Engineering Designer: **ARUP**

Date: 27/01/2023 Scale: 1:500 @ A1, 1:1000 @ A3

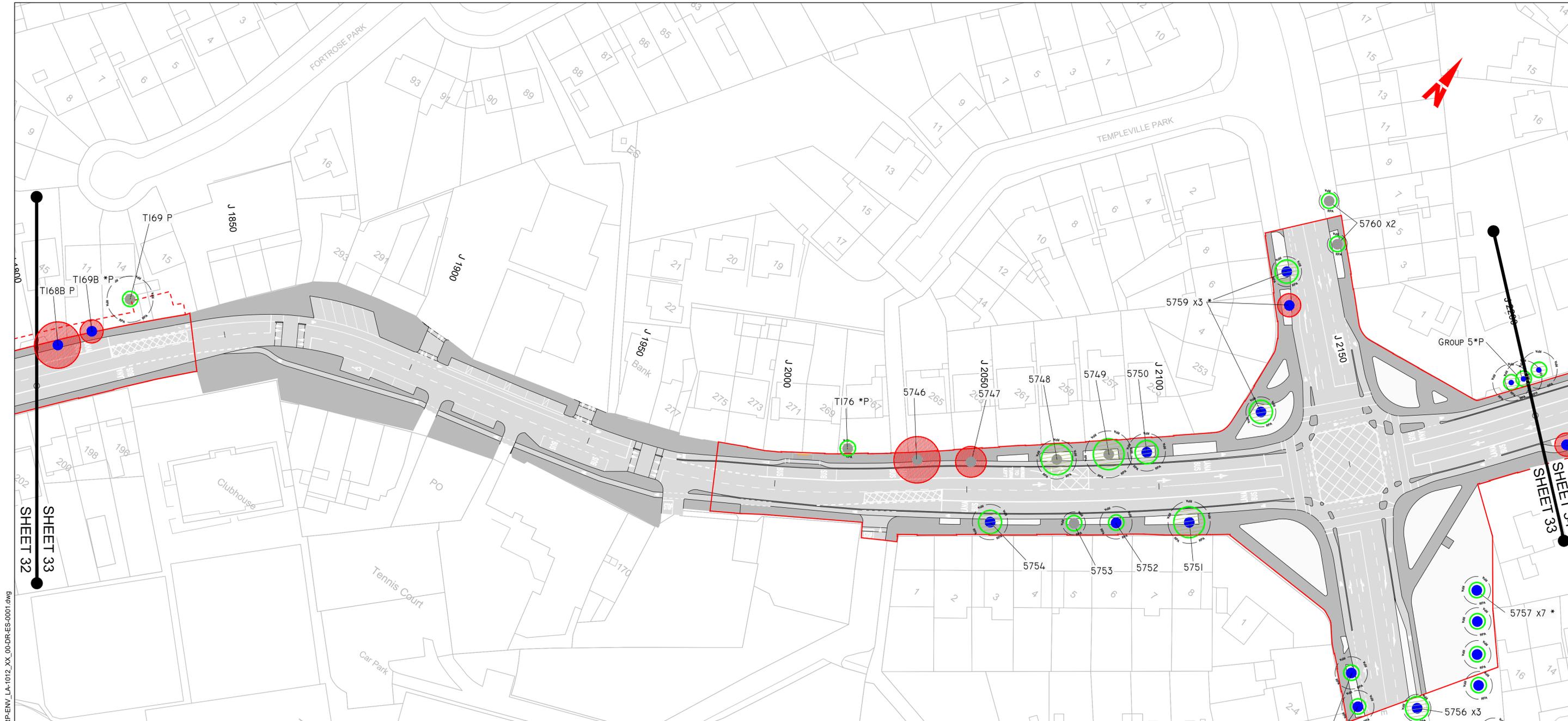
Drawn: JL, Checked: MG, Approved: DC

Project Code: BCIDC, Originator Code: ARP, QMS Code: 268401-00

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0032	Sheet Number: 32 of 37	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\europa\dublin\jobs\268401-0014_Intemat\4-02 Drawings\4-02 BCIDC\01\21\15 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg



GENERAL NOTES:

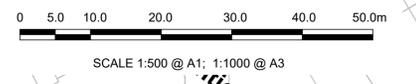
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

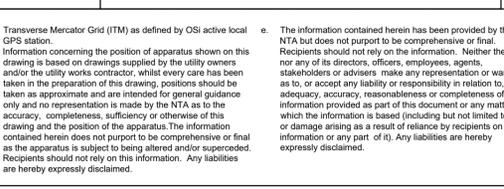
- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE**
- TEMPORARY LAND ACQUISITION**



Disclaimer
 a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.
 b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
 c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
 d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
 e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer: **ARUP**
 ARBOR CARE
 Design and
 Consulting
 Tree Services

Date: 27/01/2023 Scale: 1:500 @ A1
 1:1000 @ A3

Drawn: JL Checked: MG Approved: DC

Project Code: BCIDC Originator Code: ARP QMS Code: 268401-00

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0033	Sheet Number: 33 of 37	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\arup\proj\268401-0014_Intemat\4-02 Drawings\4-02 BCID\BCID\01012115 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg



GENERAL NOTES:

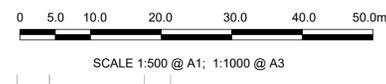
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P** PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
- *** INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
- Root Protection Area (RPA)**

LEGEND CONTINUED:

- TREE TO BE RETAINED
 - TREE TO BE REMOVED
 - RETAIN GROUP
 - REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



Disclaimer

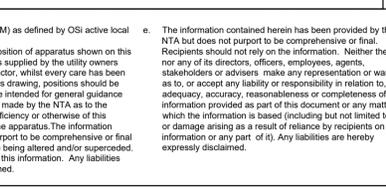
a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **ARUP**
ARUP
Development Consulting Case Science

Date: 27/01/2023
Scale: 1:500 @ A1
1:1000 @ A3

Drawn: JL
Checked: MG
Approved: DC

Project Code: BCIDC
Originator Code: ARP
QMS Code: 268401-00

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN			
Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0034	Sheet Number: 34 of 37	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\arup\proj\268401-00\4 - Internal\4-02 Drawings\4-02 BCIDC\01012115 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg



GENERAL NOTES:

- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

GROUP 1 TREE / GROUP TAG NUMBER

P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).

* INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).

Root Protection Area (RPA)

LEGEND CONTINUED:

- TREE TO BE RETAINED
- TREE TO BE REMOVED
- RETAIN GROUP
- REMOVE GROUP

TREE CATEGORY BASED ON BS:5837 2012 CRITERIA

- CATEGORY (A, A1, A2, A3)
- CATEGORY (B, B1, B2, B3)
- CATEGORY (C, C1, C2, C3)
- CATEGORY (U)

SITE BOUNDARY LINE
TEMPORARY LAND ACQUISITION

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.

Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **ARUP**

Date: 27/01/2023
Scale: 1:500 @ A1
1:1000 @ A3

Drawn: JL
Checked: MG
Approved: DC

Project Code: BCIDC
Originator Code: ARP
QMS Code: 268401-00

Programme Title: **BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME
TREE PROTECTION PLAN**

Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0035
Sheet Number: 35 of 37
Status: A
Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

\\global\europa\Dublin\jobs\268401-0014_Intemat\4-02 Drawings\4-02 BCIDC\01\2115 ENV\Drawings\DR\BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

GENERAL NOTES:

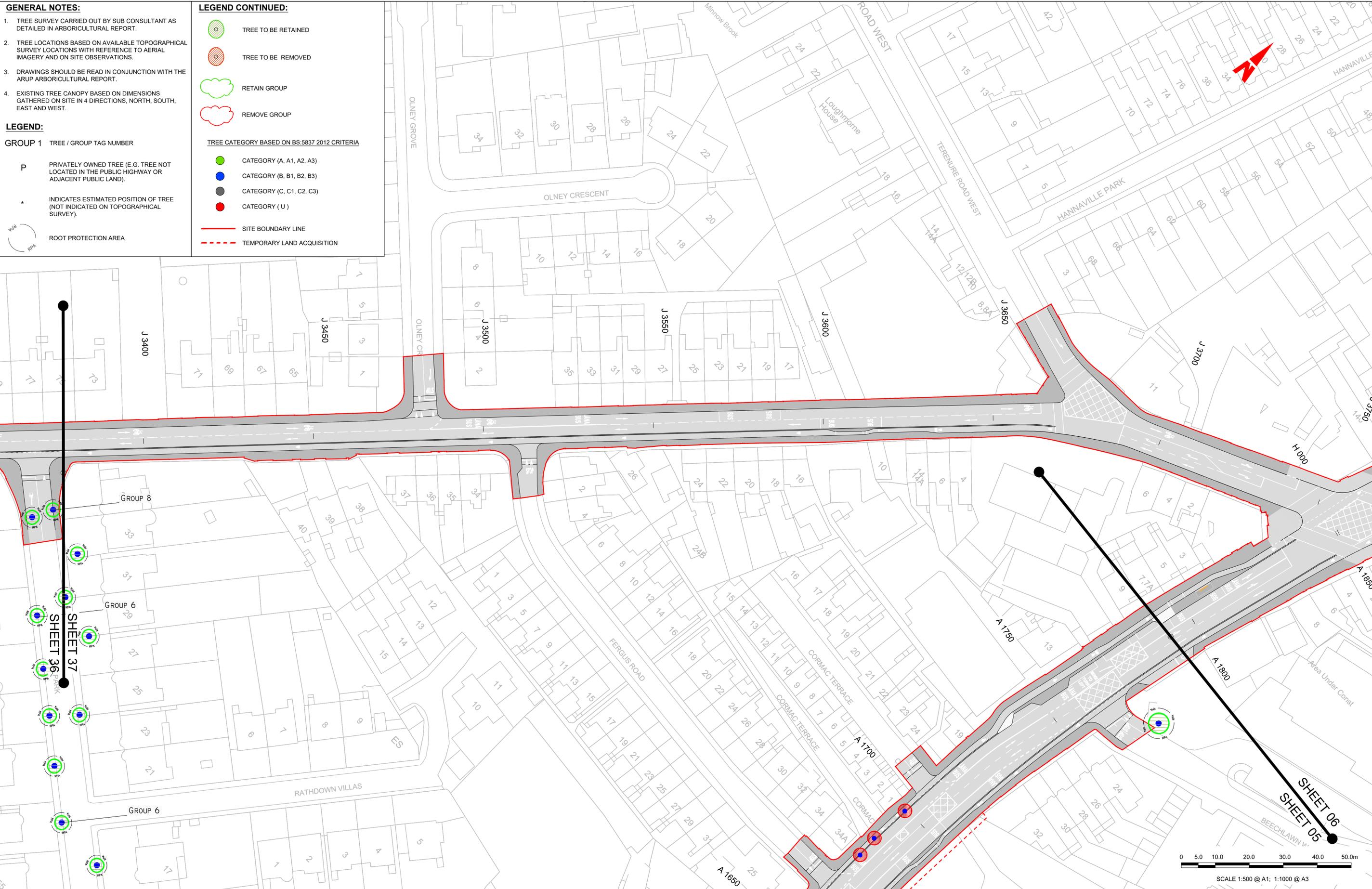
- TREE SURVEY CARRIED OUT BY SUB CONSULTANT AS DETAILED IN ARBORICULTURAL REPORT.
- TREE LOCATIONS BASED ON AVAILABLE TOPOGRAPHICAL SURVEY LOCATIONS WITH REFERENCE TO AERIAL IMAGERY AND ON SITE OBSERVATIONS.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARUP ARBORICULTURAL REPORT.
- EXISTING TREE CANOPY BASED ON DIMENSIONS GATHERED ON SITE IN 4 DIRECTIONS, NORTH, SOUTH, EAST AND WEST.

LEGEND:

- GROUP 1 TREE / GROUP TAG NUMBER**
- P PRIVATELY OWNED TREE (E.G. TREE NOT LOCATED IN THE PUBLIC HIGHWAY OR ADJACENT PUBLIC LAND).
 - * INDICATES ESTIMATED POSITION OF TREE (NOT INDICATED ON TOPOGRAPHICAL SURVEY).
 - ⊙ ROOT PROTECTION AREA

LEGEND CONTINUED:

- ⊙ TREE TO BE RETAINED
 - ⊙ TREE TO BE REMOVED
 - ☁ RETAIN GROUP
 - ☁ REMOVE GROUP
- TREE CATEGORY BASED ON BS:5837 2012 CRITERIA**
- CATEGORY (A, A1, A2, A3)
 - CATEGORY (B, B1, B2, B3)
 - CATEGORY (C, C1, C2, C3)
 - CATEGORY (U)
- SITE BOUNDARY LINE
 - - - TEMPORARY LAND ACQUISITION



\global\arup\arup\dublin\jobs\268401-0014 - Internal\4-02 Drawings\4-02 BCID\BCID\101215 ENV\Drawings\DRIB\BCID-ARP-ENV_LA-1012_XX_00-DR-ES-0001.dwg

Disclaimer

a. © National Transport Authority (NTA) 2022. This drawing is confidential and the copyright in it is owned by NTA. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of NTA.

b. This drawing is to be used for the design element identified in the titlebox. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.

c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish

Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.

d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this information. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

e. The information contained herein has been provided by the NTA but does not purport to be comprehensive or final. Recipients should not rely on the information. Neither the NTA nor any of its directors, officers, employees, agents, stakeholders or advisers make any representation or warranty as to, or accept any liability or responsibility in relation to, the adequacy, accuracy, reasonableness or completeness of the information provided as part of this document or any matter on which the information is based (including but not limited to loss or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



Rev	Date	Drn	Chk'd	App'd	Description
M01	27/01/2023	JL	MG	DC	ISSUE FOR PHASE 4: PLANNING

Client

Engineering Designer

Drawn: JL, Checked: MG, Approved: DC

Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE SCHEME TREE PROTECTION PLAN

Drawing File Name: BCIDC-ARP-ENV_LA-1012_XX_00-DR-ES-0037

Sheet Number: 37 of 37

Status: A

Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

Appendix D

Example Site Monitoring Form

Appointed Site Arboricultural Consultant: Company: Consultant's name: Tel: Mob:
Development site address:
Developer's details: Company: Developer's name: Tel:

Stage of Development (x)

Pre-construction works

- Tree works
- Protective fencing/tape
- Fencing signage
- Ground protection
- Temporary haul road

Construction works

- Demolition
- Grading/muck away
- Placing portacabin
- Excavation/services
- Construction work

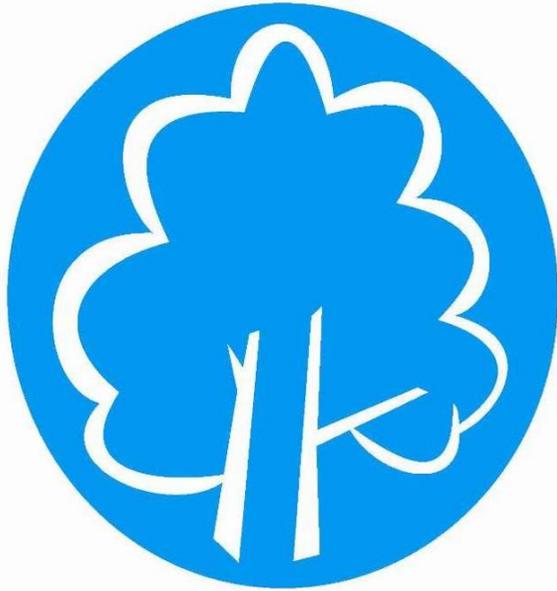
Post-construction works

- Rectifying tree damage/pruning
- Hard landscaping/walls/drives
- Removal of protective fencing etc.
- Soft landscaping
- Special surfacing Tree planting

Comments:

Appendix E

Tree Protection Signage (Example)



**PROTECTIVE FENCING. THIS
FENCING MUST BE
MAINTAINED IN ACCORDANCE
WITH THE APPROVED PLANS
AND DRAWINGS FOR THIS
DEVELOPMENT.**



**TREE PROTECTION AREA
KEEP OUT !**
(TOWN & COUNTRY PLANNING ACT 1990)
**TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A
TREE PRESERVATION ORDER.
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY
LEAD TO CRIMINAL PROSECUTION**
**ANY INCURSION INTO THE PROTECTED AREA MUST BE
WITH THE WRITTEN PERMISSION OF THE LOCAL
PLANNING AUTHORITY**