

Bray to City Centre

Core Bus Corridor Preferred Route

Third Round of Public Consultation
November 2020

13



Project Ireland 2040
Building Ireland's Future

**BUS
CONNECTS**
SUSTAINABLE TRANSPORT FOR A BETTER CITY.



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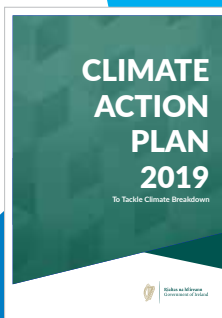
1. Introduction

1.1 What is BusConnects?

BusConnects is the National Transport Authority's (NTA) programme to greatly improve bus and sustainable transport services. It is a key part of the Government's policies to improve public transport and address climate change in Dublin and other cities. Dublin is growing and needs a bus network that works for a developing city. The aim of BusConnects is to deliver an enhanced bus system that is better for the city, its people and the environment.

BusConnects is included in the Programme for Government "Our Shared Future" 2020, as well as within the following Government strategies:

- The National Development Plan 2018 - 2027;
- Transport Strategy for the Greater Dublin Area 2016 - 2035
- The Climate Action Plan 2019.



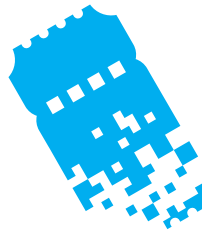
BusConnects Dublin is a programme of 9 elements

■ **BUS** ➡ **230km** of bus priority making journeys faster and more reliable

■ **CYCLE** ➡ **200km** of cycle routes



Transitioning to a new
low emissions bus fleet

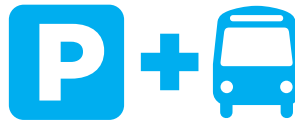


State of the art
ticketing system

Cashless payment system



Simpler fare structure



New Park & Ride
sites in key locations



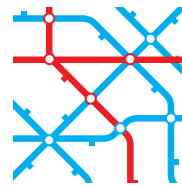
New bus livery

providing a common style across all operators



New bus stops and shelters

with better signage and information



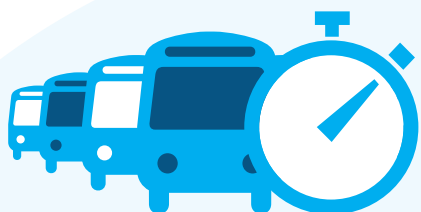
Dublin area bus network redesign

creating a more efficient network with high frequency spines, new orbital routes and increased bus services

1.2 What are the aims and objectives of BusConnects Core Bus Corridors?

Aims: The aim of BusConnects Core Bus Corridors is to provide enhanced walking, cycling and bus infrastructure on key access corridors in the Dublin region, which will enable and deliver efficient, safe, and integrated sustainable transport movement along these corridors.

Objectives:



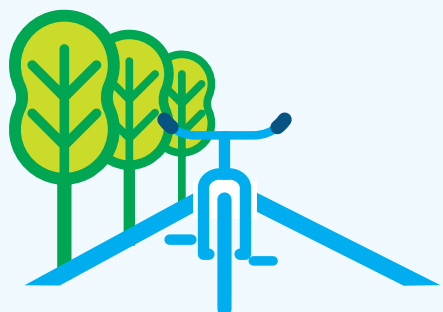
Enhance the capacity and potential of the public transport system by improving bus speeds, reliability and punctuality through the provision of bus lanes and other measures to provide priority to bus movement over general traffic movements;



Support the delivery of an efficient, low carbon and climate resilient public transport service, which supports the achievement of Ireland's emission reduction targets;



Improve accessibility to jobs, education and other social and economic opportunities through the provision of improved sustainable connectivity and integration with other public transport services; and



Enhance the potential for cycling by providing safe infrastructure for cycling, segregated from general traffic wherever practicable;



Enable compact growth, regeneration opportunities and more effective use of land in Dublin, for present and future generations, through the provision of safe and efficient sustainable transport networks;



Ensure that the public realm is carefully considered in the design and development of the transport infrastructure and seek to enhance key urban focal points where appropriate and feasible.

1.3 What has happened so far?

Between November 2018 and May 2019 the National Transport Authority (NTA) carried out the first round of public consultation regarding proposals for the Emerging Preferred Routes of 16 Core Bus Corridors (CBC) across Dublin. During this first round of consultation we received 13,000 submissions in total. These submissions were reviewed and considered as part of the design process for the Preferred Route option for each corridor.

A second round of public consultation on the Preferred Route options commenced in March 2020 and continued until mid-April 2020. Notwithstanding the Covid-19 pandemic and subsequent Government restrictions, the consultation continued due to the level of interest. The focus of public queries and submissions came through emails, post, phone conversations and online submissions as all the information was available on the BusConnects website for review.

It was decided in March that an additional third round of public consultation would take place in the latter part of this year to provide further opportunities for the public to review and submit feedback to the latest set of designs.

1.4 What is in this brochure?

This document is one of 16, each dedicated to a single core bus corridor. The document provides a written description of the Preferred Route from start to finish with supporting maps. It includes all revisions made, if any, since the last round of public consultation. It also includes a revised timeline for the progress of the programme due to Covid19 implications.

The brochures detailing the Emerging Preferred Route and the brochures from the second round of consultation earlier this year are available to view and download on our website www.busconnects.ie.

Definitions of the terminology used in the document can be found in chapter 4 of this brochure.





1.5 A map of all 16 core bus corridors

Preferred Routes

1. Clongriffin to City Centre
2. Swords to City Centre
3. Ballymun to City Centre
4. Finglas to Phibsborough
5. Blanchardstown to City Centre
6. Lucan to City Centre
7. Liffey Valley to City Centre
8. Clondalkin to Drimnagh
9. Greenhills to City Centre
10. Tallaght to Terenure
11. Kimmage to City Centre
12. Rathfarnham to City Centre
13. Bray to City Centre
14. UCD Ballsbridge to City Centre
15. Blackrock to Merrion
16. Ringsend to City Centre



2. What has been happening over the last number of months?

Considerable design work has been continuing since the last round of consultation. This work includes the following:

2.1 Technical Design

Designs have progressed with further refinements being made to elements of each corridor such as junctions, alignments, bus stops, cycling and walking facilities, and urban realm features. Engagement with stakeholders is continuing including engagement with individual householders directly impacted. The developing design has been, and continues to be, informed by stakeholder engagement and further detailed surveys. These include the identification of underground services and detailed assessment of trees along the routes.

Draft Preferred Route Option Reports have been prepared for each CBC detailing the

development of each corridor from the Emerging Preferred Route through to the draft Preferred Route Option. These draft “Preferred Route Option Reports” are being published as part of the public consultation and will be finalised following this third round of public consultation and the inclusion of feedback received. **These draft reports are available to view and download on the website www.busconnects.ie.**

2.2 Environmental Impact Assessment

As part of the intended planning application for each corridor, the NTA will be preparing an Environmental Impact Assessment Report (EIAR) in accordance with current Irish and European legislation. This document will identify the anticipated environmental effects of the scheme during both the construction and operational stages. This assessment is being undertaken by environmental specialists on behalf of the NTA. As part of this assessment, these specialists are undertaking studies of the current condition of the receiving environment within the identified corridor extents. This involves a combination of on-site surveys and desktop study of existing records. At the time

of this public consultation, various surveys and studies are underway. The information collected will also be shared with the technical designers for consideration in the design decision making process for the infrastructure works.

Further details of the environmental assessment approach for each scheme are outlined in an individual corridor document called “Information on the Proposed Approach to Environmental Assessment”. This document gives a more in-depth description of the determination of the extents of anticipated impacts and how the cumulative impacts of adjacent core bus corridors and other construction projects will be assessed.

These draft reports are available to view and download on the website www.busconnects.ie.

2.3 Transport Impact

The transport assessment of the core bus corridor proposals is focussed on the “movement of people” rather than, solely, the “movement of vehicles”. In order to adequately determine the impact on public transport, active modes (walking and cycling), and general traffic, a comprehensive suite of transport models have been developed.

An extensive set of traffic counts were undertaken in late 2019 and early 2020 and this data, along with other sources, has been used to calibrate and validate the models to assist in the evaluation of the core bus corridors. On a strategic level, the Eastern Regional Model has been used to forecast the modal split for future years. At a more refined level, a Local Area Model has been developed to examine the potential displacement of traffic. In addition, detailed modelling is ongoing in terms of junction and corridor analysis tests and to quantify the effect on the movement of people through each junction and along the corridor itself.

Each EIAR will contain a section on the potential traffic and transport impacts associated with the construction and operational phases of the core bus corridors. This assessment will be informed by the following reports:

- Transport Impact Assessment (TIA)
 - this will include the comprehensive assessment of each core bus corridor covering all modes and will include a cumulative assessment of all corridors; and



- ▶ Transport Modelling Report – this will detail the model development, data inputs, calibration and validation, and forecast model development for the set of models used to support the assessment.

A draft, work-in-progress version of the “Transport Modelling Reports” for each core bus corridor, together with a summary of the work-in-progress strategic modelling results to-date, are being published as part of the public consultation and will be finalised following this third round of public consultation and the inclusion of feedback received. **These draft reports are available to view and download on the website www.busconnects.ie.**

2.4 Urban Realm

In tandem with the technical design work on finalising the road alignment in the urban cross sections across the core bus corridors, planning has also progressed for refining the Urban Realm design proposals. These designs are being developed in consultation with the local authorities to ensure tie-in to existing schemes and initiatives. The NTA is focusing on finishing the layout of spaces, considering desire lines (how people want to move through spaces) and

the placement of urban furniture (trees, bins, bollards, benches, bike stands, railings, etc.)

Urban Realm improvement opportunities along the routes present themselves through the civil/physical works needed to reach the BusConnects objective to provide bus priority, along with improved cycling and pedestrian facilities. All put together, the core bus corridors provide an opportunity for lots of continuous interventions that, together, can give a general city-wide lift.

The Urban Realm improvement opportunities are spread out along the core bus corridors and need to respond to and reflect specific locality and context. In the design of the urban spaces we will be using appropriate materials and urban furniture that comply with standards for use, durability and maintenance as well as carbon footprint considerations.

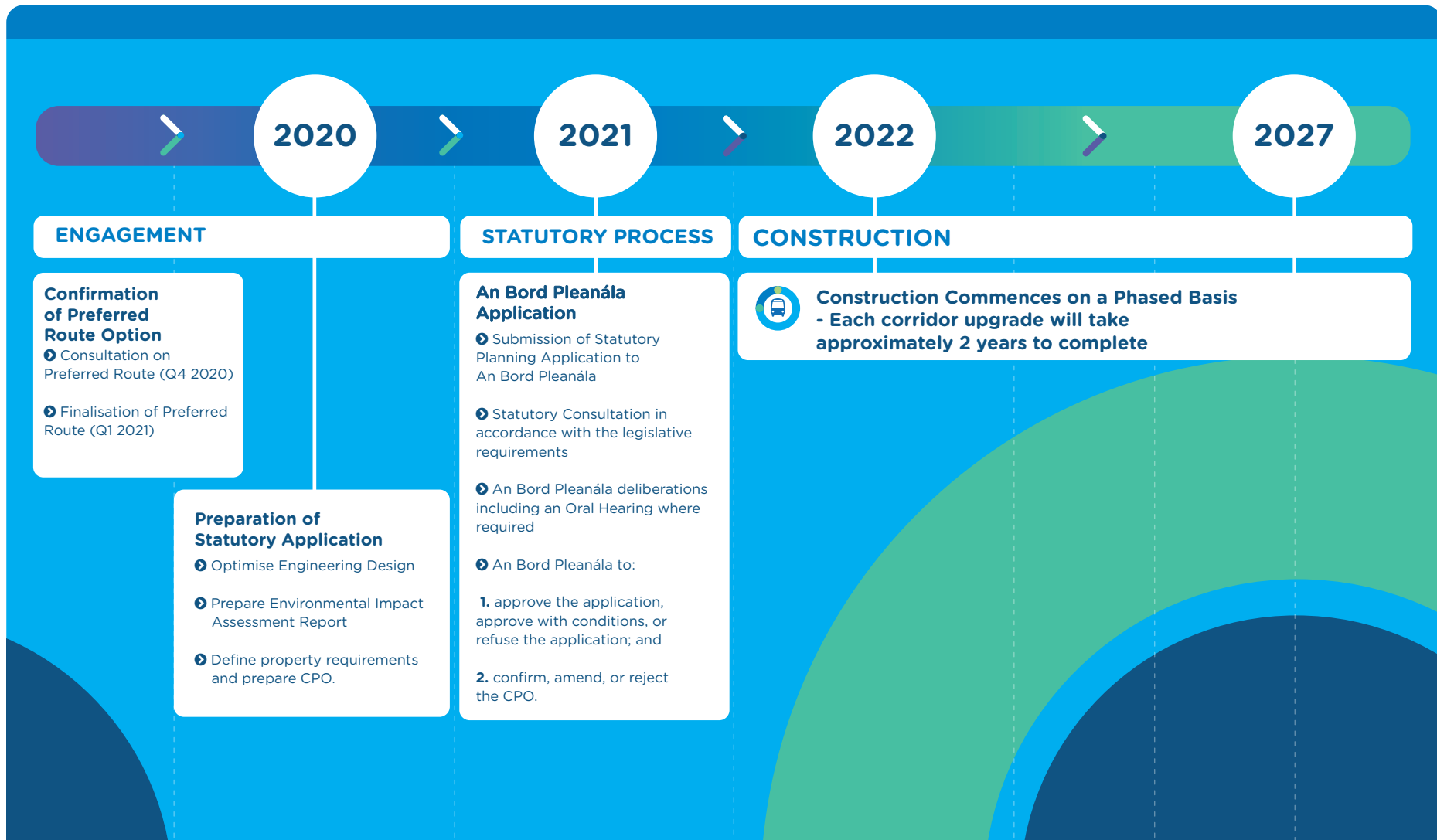
Further details of the urban realm design approach can be found in a document called “BusConnects Urban Realm Concept Design” published as part of the public consultation. **This document is available to view and download on the website www.busconnects.ie.**

2.5 Compulsory Purchase Maps & Schedules

In tandem with the technical design work the designers will be starting the work of preparing the various maps and schedules of areas that are proposed to be acquired under the statutory compulsory purchase order process (CPO). The attached Maps in this brochure indicate Proposed New Boundaries (Possible Land Acquisition) represented by broken red lines. These boundaries are indicative of potential areas for permanent CPO, and are not yet finalised. As detailed plots are finalised the designers will be continuing to seek to meet those with an interest in the impacted areas.

In some cases there may also be a need to realign driveways and/or redo the landscaping of property front gardens, or reorganise business accesses and/or loading areas. Some of these works may be outside the permanent CPO area, and consequently there may be a need to put in place temporary arrangements to ensure access during construction to carry out necessary accommodation works. Similar to the permanent CPO development, the designers will be continuing to seek to meet those with an interest in the impacted areas.

2.6 Timeline for the Core Bus Corridor Process



3. How to take part in the public consultation

This brochure provides details of the proposed Preferred Route Option for this core bus corridor. These proposals are subject to a third non-statutory round of public consultation, and subsequent design refinement and environmental impact assessment, before a formal statutory application will be made by the NTA to An Bord Pleanála for approval.

Virtual consultation rooms for each Core Bus Corridor can be found on www.busconnects.ie. These rooms will provide a description of each Preferred Route from start to finish with supporting maps and include information of all revisions made, if any, since the last round of public consultation as well as other supporting documents.

3.1 General queries

The project website www.busconnects.ie has a dedicated section for the Core Bus Corridor

project. All previous emerging preferred route brochures are available on the website. Users can access the site to find out more about the project and download copies of the key documents.


General queries can be directed to a dedicated Freephone – **1800 303 653** or by email to cbc@busconnects.ie

3.2 How to engage

We are inviting submissions in relation to the Preferred Route Options set out in this document. The closing date for submissions is stated on the website.

Written submissions and observations may be made by:

 cbc@busconnects.ie

 BusConnects Core Bus Corridors
National Transport Authority,
Dún Scéine, Harcourt Lane, Dublin 2
D02 WT20

3.3 What happens next?

Following the third round of public consultation, the NTA will finalise the Preferred Route Options for all sixteen corridors. The scheme designs will be finalised, transport and environmental impact assessments will be completed. This will culminate in the preparation of an Environmental Impact Assessment Report (EIAR) for the scheme together with details of land to be acquired. This will be submitted to An Bord Pleanála in 2021 for its consideration and determination. A formal statutory consultation process will be undertaken as part of that process.



4. Preferred Route Description

4.1 Overview

The Bray to City Centre Core Bus Corridor (CBC) commences at the junction of Leeson Street Lower and St. Stephen's Green. The CBC runs along Leeson Street Lower and Upper including the existing one-way system on Sussex Road. It continues on Morehampton Road and Donnybrook Road through Donnybrook Village, and on to the Stillorgan Road. It intersects with the UCD to City Centre CBC at Nutley Lane and includes the Belfield Interchange at the entrance to University College Dublin (UCD). It continues south on Stillorgan/Bray Road as far as the Loughlinstown Roundabout. The route then proceeds along the Dublin Road through Shankill and on to Bray through the Wilford Roundabout (M11 Access Roundabout) and Castle Street. The CBC terminates at the Dargle River Crossing where it ties into the proposed Bray Bridge Scheme.

The following paragraphs will describe each section of the CBC in more detail, identifying the key design revisions which have been incorporated into the design since the publication of the Preferred Route Option in March 2020.

4.2 Leeson Street Lower, Leeson Street Upper including the one-way system on Sussex Road, Morehampton Road, Donnybrook Road through Donnybrook Village, Stillorgan Road

The CBC commences at the junction of Leeson Street Lower and St. Stephen's Green. The corridor runs along Leeson Street Lower and Upper with continuous bus priority and segregated cycle tracks in each direction, including the one-way system on Sussex Road. Traffic between Hatch St Lower/Pembroke St Upper and St Stephen's Green is now proposed to be restricted to buses and local access only. Local vehicular access will be maintained to Leeson Street Lower from the Hatch Street Lower/Pembroke Street Upper junction. Inbound general traffic will be diverted along Hatch Street Lower and Earlsfort Terrace.

Continuous bus priority and segregated cycle tracks are proposed in each direction along Morehampton Road and Donnybrook Road through Donnybrook Village and the Stillorgan Road to UCD through a combination of bus lanes and Signal Controlled Priority.

To accommodate this improved infrastructure, limited land take will be necessary at the following locations:

- Between Brookvale Road Junction and Eglinton Road Junction; and
- Between Anglesea Road and Nutley Lane.

The indicative extents of this land take are shown on the drawings included in the Appendix of this brochure.

4.3 UCD Entrance to Lower Kilmacud Road

At the Belfield Interchange UCD Entrance, it is proposed to retain a bus lane on the southbound on-ramp, northbound off-ramp and northbound on-ramp, and to provide a new bus lane on the southbound off ramp and Stillorgan Road Overbridge, plus segregated cycle tracks on each of the junction arms and on the overbridge.

On the Stillorgan Road between Seafield Road and Foster's Avenue it is intended to provide a bus lane, a one-way segregated cycle track,

and two general traffic lanes in each direction. A short length of two-way segregated cycle track will be provided on each side of the road along this section due to its proximity to UCD. This will run from the Stillorgan Road Overbridge to Belfield Park alongside the southbound carriageway, and from Foster's Avenue to the newly proposed cycle entrance into UCD (opposite Seafield Rd) alongside the northbound carriageway.

Between Belfield Park and Lower Kilmacud Road it is proposed to provide a bus lane and two general traffic lanes, as well as a one-way segregated cycle track in each direction. A new Toucan Crossing is planned between Patrician Villas and St. Laurence's Park. A new dedicated footpath is proposed between the Lower Kilmacud Road and Trees Road Lower junctions on both sides of the Stillorgan Road.

To accommodate this improved infrastructure, limited land take will be necessary at the following locations:

- The Talbot Hotel
- UCD
- Between Foster's Avenue and Roebuck Avenue (opposite Coláiste Eoin)

The indicative extents of this land take are shown on the drawings included in the Appendix of this brochure.

4.4 Lower Kilmacud Road to Loughlinstown Roundabout – Stillorgan Road, Bray Road

It is proposed to maintain one bus lane and two general traffic lanes in each direction. Improved segregated cycle tracks and pedestrian footways will be provided along this section of the route where appropriate.

At the junction with Westminster Road it is proposed to remove the existing U-turn filter lane to facilitate a new Toucan Crossing. It is intended to provide a new pedestrian link from the Stillorgan Road to South Park.

A short section of northbound cycle track will be diverted locally along St Brigid's Church Road to achieve improved cycle track widths and segregation. Additional traffic calming measures are proposed on St Brigid's Church Road to accommodate this. It is also proposed to close the junction of The Hill and N11 Stillorgan Road to maintain continuous segregated cycling facilities at this location.

A new footpath is proposed on either side of the Stillorgan Road between the new junction on the N11 at Druid's Glen Road and Wyattville Road. Improvements have been made to cycle track provisions at the Wyattville Road junction. The existing adjacent northbound Bray Road slip towards Cherrywood Road will be retained as a one-way northbound road and cycle route.

At the Loughlinstown Roundabout it is proposed to signalise the existing roundabout on three arms and to provide a continuous bus lane southbound through the junction towards Shankill.

To accommodate this improved infrastructure, limited land take will be required at the following locations:

- South of Brewery Road adjacent to the northbound carriageway;
- North of Kill Lane adjacent to the northbound carriageway;
- North of St Laurence's College in front of Shanganagh Vale
- At St Laurence's College;
- Around Wyattville Road junction;

The indicative extents of this land take are shown on the drawings included in the Appendix of this brochure.

4.5 Loughlinstown Roundabout to Dargle River Crossing – Dublin Road through Shankill to Bray, and Castle Street

Between Loughlinstown Roundabout and St Anne's Church it is intended to provide bus priority and a general traffic lane in each direction. Where bus lanes are not continuous, Signal Controlled Priority will be provided.

Segregated cycle tracks have been omitted between Loughlinstown Roundabout and Stonebridge Road along the CBC, in order to minimise the property impacts along the Dublin Road. It is intended to provide a two-way cycle track from the Shanganagh Road/Dublin Road Junction along the Dublin Road and Stonebridge Road as far as St Anne's National School, to provide a local cycle link to the two schools on Stonebridge Road. These proposals have been introduced following local community engagement and consideration of submissions from the public. Alternative segregated cycle routes between Shankill and Loughlinstown may be considered, outside the scope of the BusConnects CBC, in the future.

This section of the CBC will require road widening on both sides of the road at different locations. The route alignment has also been developed further taking into consideration other third party developments, refined bus stop and bus priority provisions, and tree survey information relevant to this section. The indicative extents of land take are shown on the drawings in the Appendix of this brochure.

The junction between Dublin Road and Shanganagh Road is proposed to be upgraded

to a signalised junction with new pedestrian crossing facilities and Signal Controlled Priority. Access from Corbawn Lane on to Shanganagh Road will be an exit only access. A dedicated right-turn lane is proposed from Shanganagh Road onto Beechfield Manor.

As a result of ongoing community engagement, it is proposed to retain the existing general traffic lanes with no dedicated bus or cycle lanes from the Shanganagh Road/Dublin Road junction through Shankill Main Street to south of Cherrington Drive. Buses will be given priority through the Main Street by means of Signal Controlled Priority at the junction between Dublin Road and Shanganagh Road to the north and a location between Cherrington Drive and Castle Farm to the south. The design has been revised to move the northbound bus priority signal from Quinn's Road junction to a new location between Cherrington Drive and Castle Farm. Using Signal Controlled Priority enables the removal of bus lanes and cycle tracks through Shankill Main Street, and the retention of a number of mature trees, while still ensuring that buses are not delayed by traffic congestion in this section.

Quinn's Road roundabout is to be upgraded to a signalised junction. Feedback from the local community during previous consultations indicated a strong desire to retain the roadside tree canopy along this section of road. The relocated priority signal from Quinn's Road to a new location south of Cherrington Drive allows the northbound bus lane to terminate further south to protect existing mature trees. As per the previous published design, there is no southbound bus lane from Quinn's Road junction to south of Crinken Lane junction. From Crinken Lane to the Wilford Roundabout it is proposed to provide northbound and southbound bus lanes, segregated cycle tracks and general traffic lanes. Where widening is required to accommodate bus lanes, cycle tracks, and improved footpaths, the intention is to maintain the tree line along the Dublin Road where possible. The alignment has been refined locally where additional survey information has informed the design along the route.

At Shanganagh Park and Cemetery, the design has been revised to move both northbound and southbound cycle tracks into the park and along the cemetery boundary, alongside the southbound footpath. New boundary walls will be set further back to retain most of

the roadside tree line here. Land take will be required in places on both sides of the road. Playground areas will be retained in their current location as part of proposals. Their final future location will be coordinated with Dun Laoghaire Rathdown County Council as part of ongoing liaison regarding the emerging Shanganagh Park and Cemetery Masterplan.

From the Wilford Roundabout to the Dargle River Crossing, it is proposed to continue with a bus lane, general traffic lane and a segregated cycle track in each direction. It is proposed to replace the Wilford Roundabout with a new signalised junction. Limited land take will be required on both sides of the road. The indicative extents of this land take are shown on the drawings included in the Appendix of this brochure.

It is proposed to provide a southbound bus lane and two general traffic lanes on Castle Street to the Fran O'Toole Bridge. The CBC terminates at the Lower Dargle Road and Ravenswell Road Junction with Castle Street and the Fran O'Toole Bridge.

4.6 Key Changes from the Preferred Route Published in March 2020

- Traffic between Hatch St Lower/Pembroke St Upper and St Stephen's Green is now proposed to be restricted to buses and local access only. Local vehicular access will be maintained to Leeson Street Lower from the Hatch Street Lower/Pembroke Street Upper junction. Inbound general traffic will be diverted along Hatch Street Lower and Earlsfort Terrace;
- A short section of northbound cycle track will be diverted locally along St Brigid's Church Road to achieve improved cycle track widths and segregation. Additional traffic calming measures are proposed on St. Brigid's Church Road to accommodate this;
- It is proposed to close the junction of The Hill and N11 Stillorgan Road to maintain continuous segregated cycling facilities at this location;

- South of Shankill Main Street the design has been revised to move the northbound Bus Priority Signal from Quinn's Road junction to a new location between Cherrington Drive and Castle Farm;
- At Shanganagh Park and Cemetery, the design has been revised to move both northbound and southbound cycle tracks into the park and along the cemetery boundary, alongside the southbound footpath;
- The route alignment has been developed further taking into consideration other third party developments, refined bus stop and bus priority provisions, and tree survey information, in particular for the section of the route that runs from Shankill Village to Wilford junction;
- Bus stops layouts and junction layouts have been developed further for improved pedestrian, cyclist, bus and general traffic interactions.

4.7 Key Facts

- Approximate number of properties that may be impacted **67**
- Approximate number of designated on-street parking spaces that may be removed **54**
- Approximate number of roadside trees that may be removed **732***
- Approximate route length: **18.6kms**
- Approximate new cycle route length: **16.9kms**
- Current bus journey time: **up to 55 mins**
- BusConnects journey time: **40-45 mins**
- Future Bus journey time without BusConnects: **70 mins +**

*This includes an approximate 550 trees that may be removed from vegetation / woodland edge between Shankill and Bray.

5. Understanding the terminology

1. Core Bus Corridor (CBC):

Part of the overall BusConnects Programme is to create 16 radial core bus corridors (CBC). A CBC is an existing road with bus priority so that buses can operate efficiently, reliably and punctually. This generally means full length dedicated bus lanes on both sides of the road from start to finish of each corridor or other measures to ensure that buses are not delayed in general traffic congestion. The bus lanes will be alongside segregated cycle lanes/tracks where feasible and general traffic.

2. Segregated Cycle Tracks:

A segregated cycle track is a separate section of the road dedicated for cycling only. This space will generally be isolated from other vehicular traffic by a physical kerb. Where it is not physically possible to have segregated cycle tracks there will be the option of quiet roads and shared cycling on reduced speed roads for cyclists.

3. Emerging Preferred Route (EPR):

The NTA published outline plans for each of the 16 CBCs in a non-statutory public consultation process in 2018/2019. The options were called Emerging Preferred Routes (EPR), in some cases with multiple sub-options, to inform the public of the likely layout of the roadway with the necessary CBC infrastructure in place. They included possible impacts on front gardens, and likely changes to how traffic will operate to facilitate bus priority.

4. Preferred Route Option (PRO):

Following consideration of the public submissions about the 16 EPR's, the core bus corridor proposals have been reviewed and amended. They are now being presented as the Preferred Route Option (PRO) and are subject to a further round of non-statutory public consultation.

They are not final proposals as they are subject to further consideration from this round of public consultation and also subsequent examination in the context of environmental impact assessment.

5. Bus Gate



A Bus Gate is a sign-posted short length of stand-alone bus lane. This short length of road is restricted exclusively to buses, taxis and cyclists plus emergency vehicles. It facilitates bus priority by removing general through traffic along the overall road where the bus gate is located. General traffic will be directed by signage to divert away to other roads before they arrive at the bus gate. To see an animation of how a Bus Gate will work, please visit our website www.busconnects.ie.

6. Signal Controlled Priority (SCP):

Signal Control Priority uses traffic signals to enable buses to get priority ahead of other traffic on single lane road sections, but it is typically only effective for short distances. This typically arises where the bus lane cannot continue due to obstructions on the roadway. An example might be when a road has pinch-points where it narrows due to existing buildings or structures that cannot be removed to widen the road to make space for a bus lane. It works through the use of traffic signal controls (typically at junctions) where the bus lane and general traffic will be stopped at the signal to allow the bus pass through the narrow section first, when the bus has passed the general traffic will then be allowed through the lights. To see an

animation of a how Signal Controlled Priority will work, please visit our website www.busconnects.ie

7. Toucan Crossing:

A Toucan Crossing is a roadway crossing designed to enable both pedestrians and cyclists to cross the road with purposefully designed signal controls.

8. Quiet Street Treatment:

Where CBC roadway widths cannot facilitate cyclists without significant impact on bus priority, alternative cycle routes are explored for short distances away from the CBC bus route. Such offline options may include directing

cyclist along streets with minimal general traffic other than car users who live on the street. They are called Quiet Streets due to the low amount of general traffic and are deemed suitable for cyclists sharing the roadway with the general traffic without the need to construct segregated cycle tracks or painted cycle lanes. The Quiet Street Treatment would involve appropriate advisory signage for both the general road users and cyclists.

9. Urban Realm:

Urban Realm refers to the everyday street spaces that are used by people to cross, shop, socialise, play and use for activities such as walking, exercise or commuting to/from work. The Urban Realm encompasses all streets, squares, junctions and other rights-of-way in residential, commercial and civic use areas as well as seating, trees and other enhancements. When well designed and laid out with care in a community setting, it enhances the everyday lives of residents and those passing through.

Signal Controlled Priority (SCP)



1. Traffic proceeds as normal.

2. As the bus approaches, the light signal changes to halt general traffic.

3. The bus has priority to proceed.

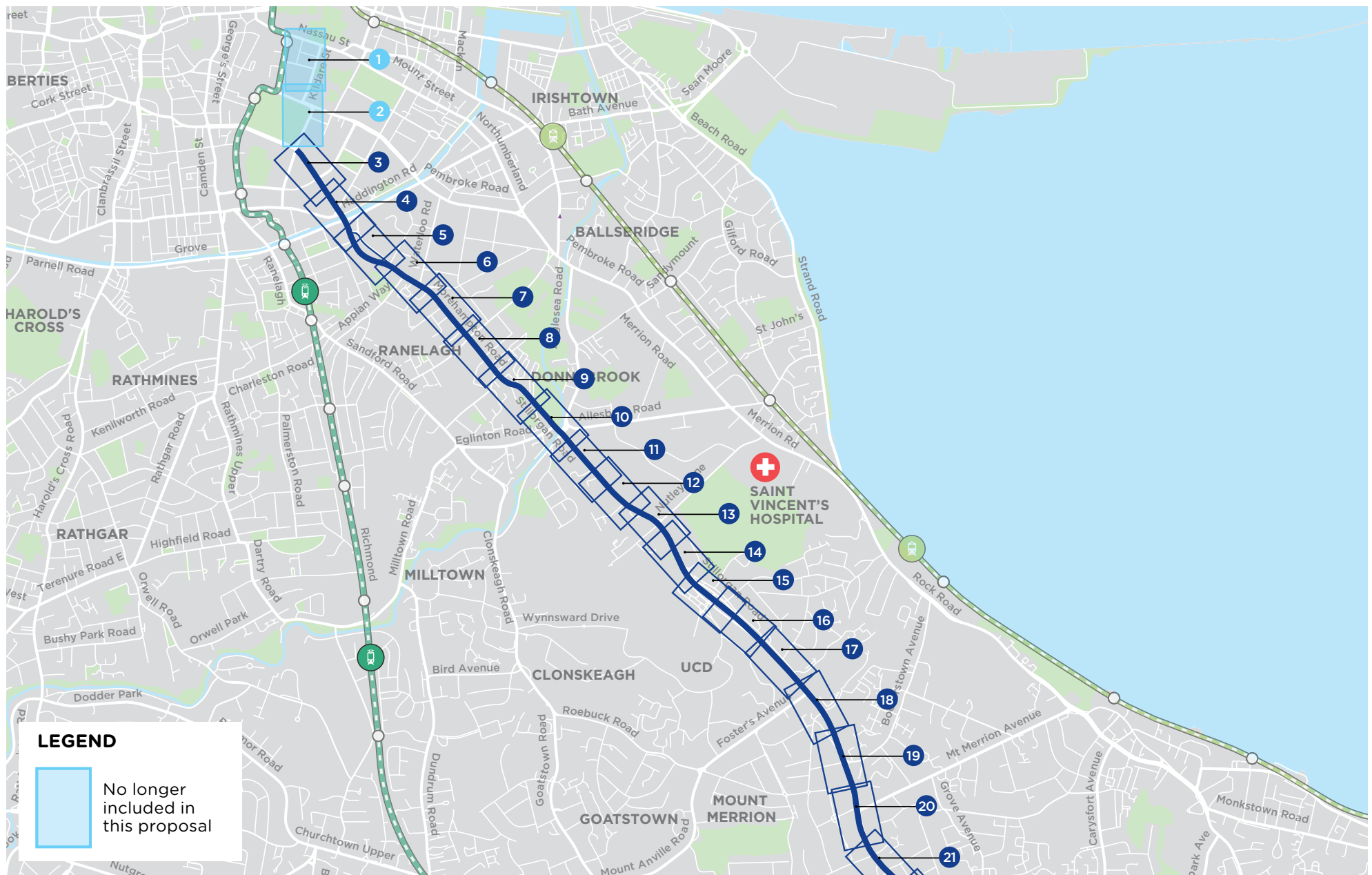
4. When the bus has cleared the junction, general traffic proceeds.



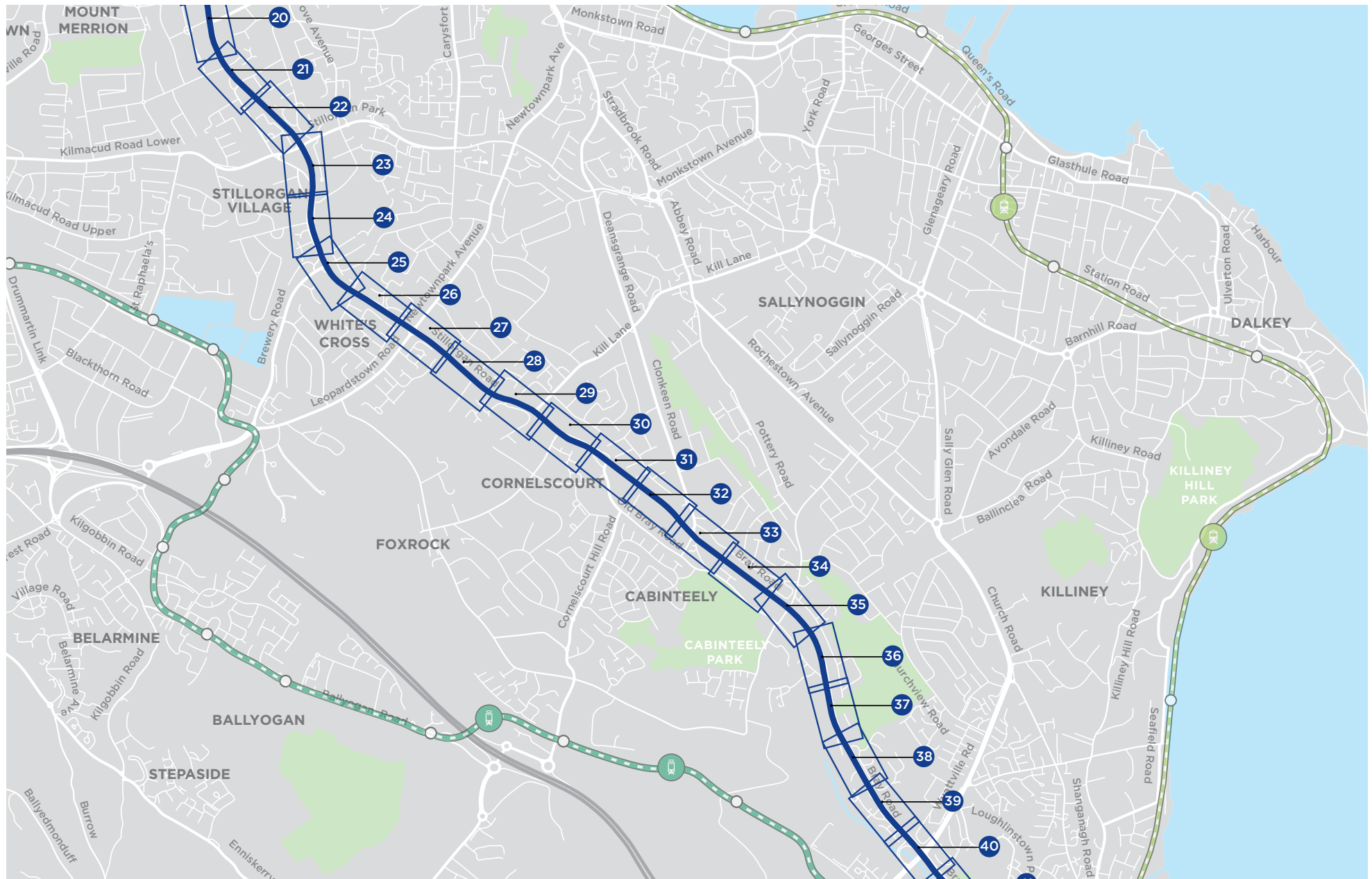
6. Appendices

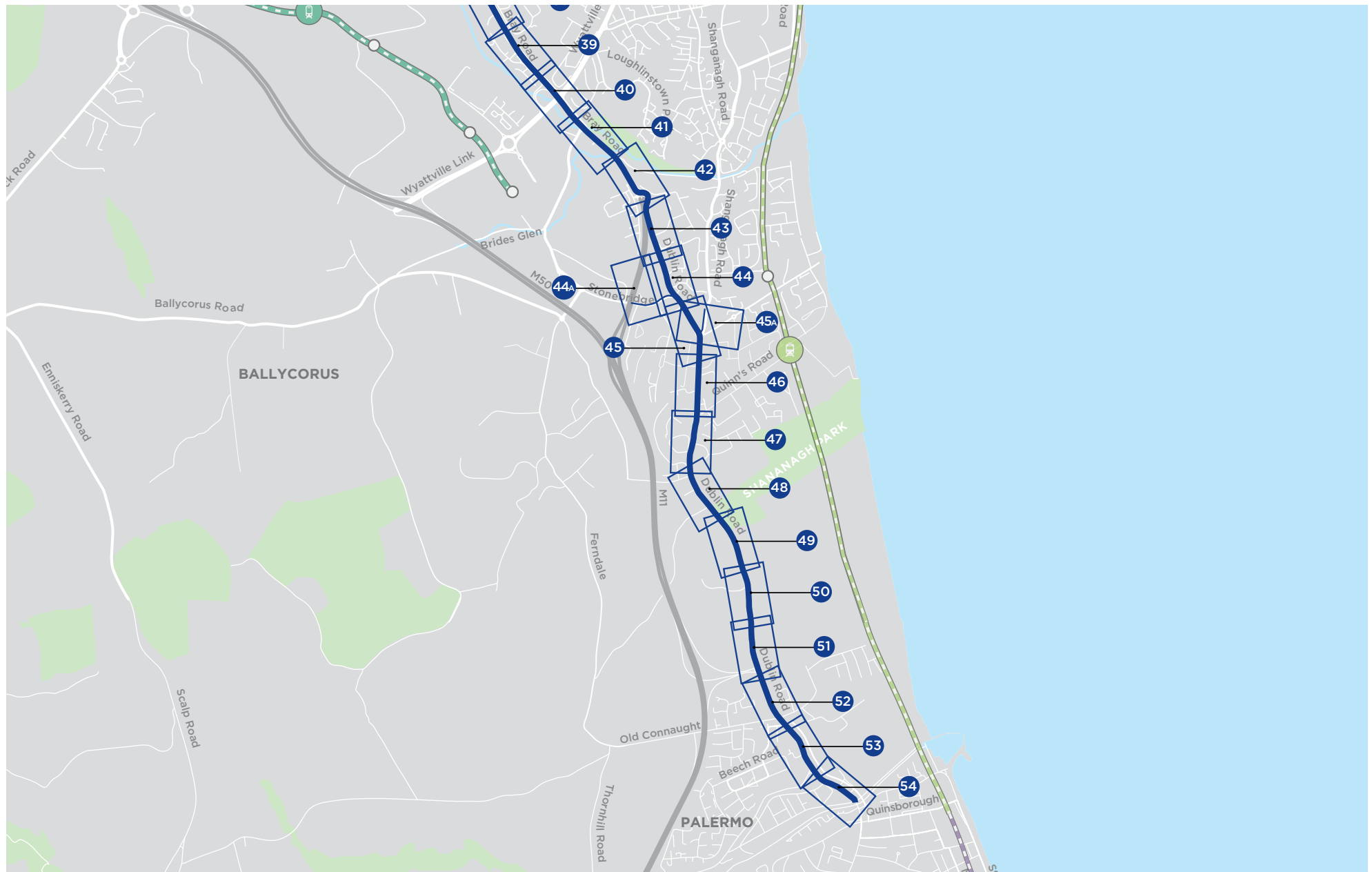
Index maps
Route maps



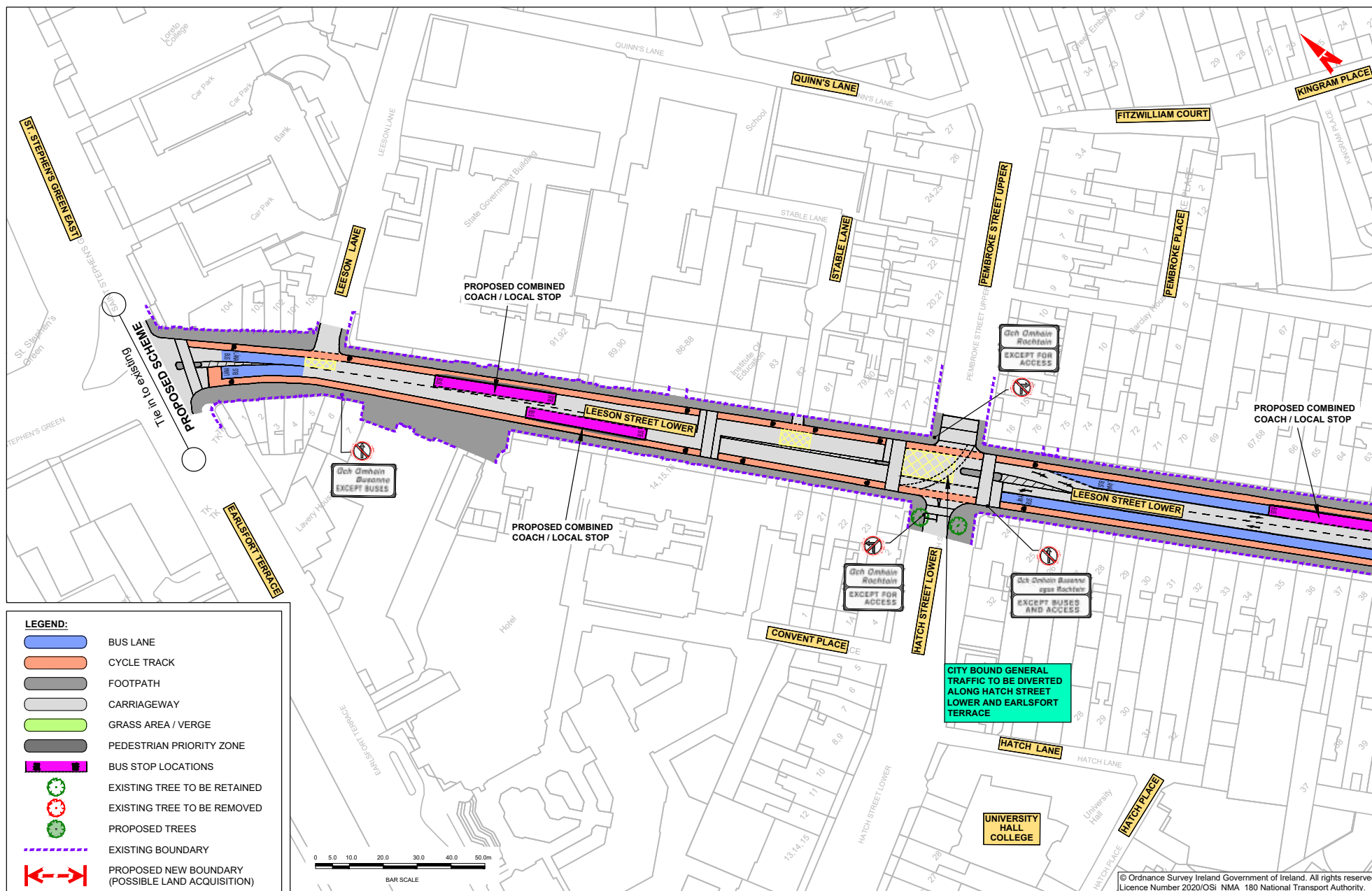


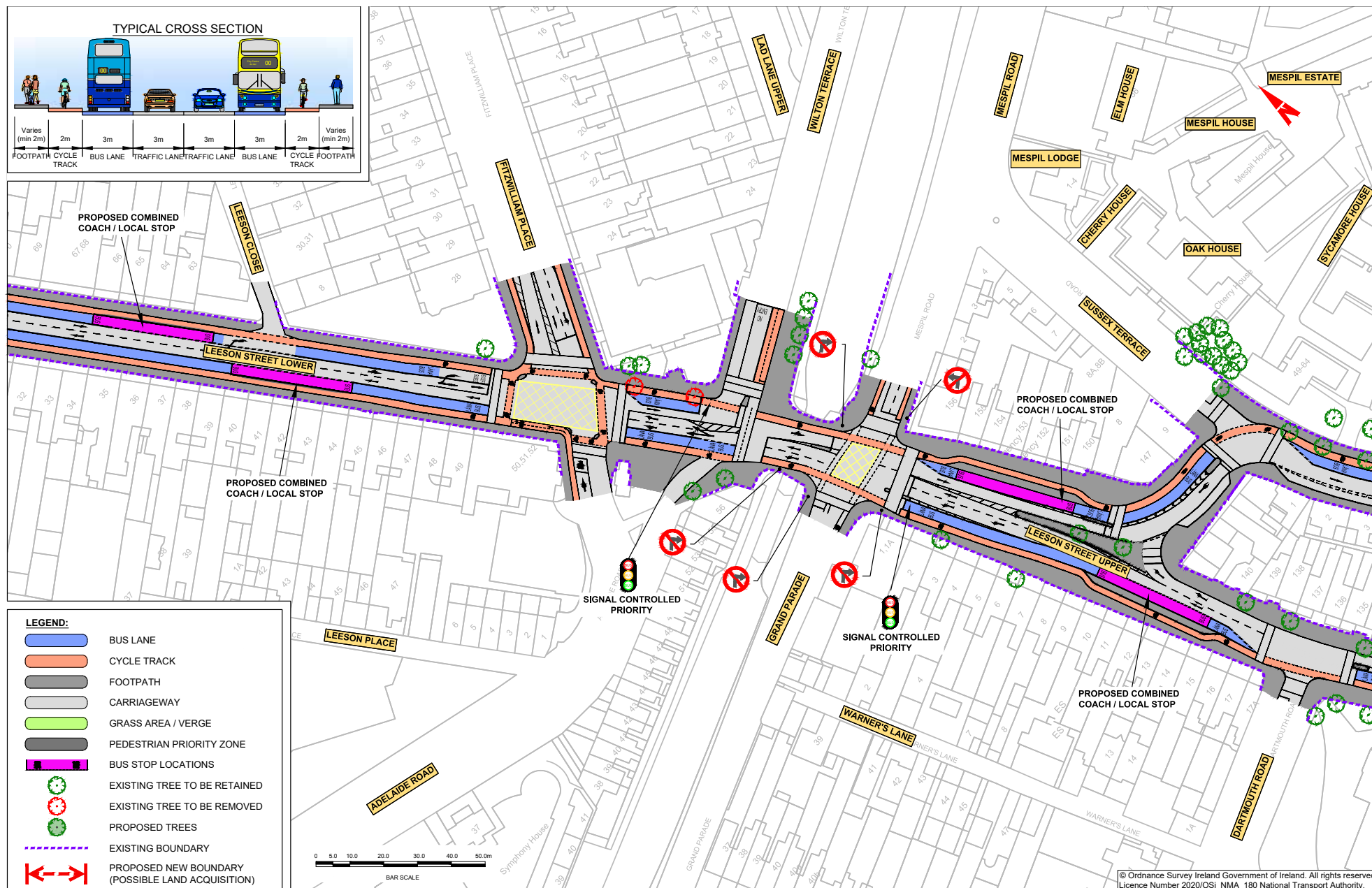
NOTE: The Preferred Route shown on the following drawings is indicative only and is subject to change following consultation and as part of the design development process.

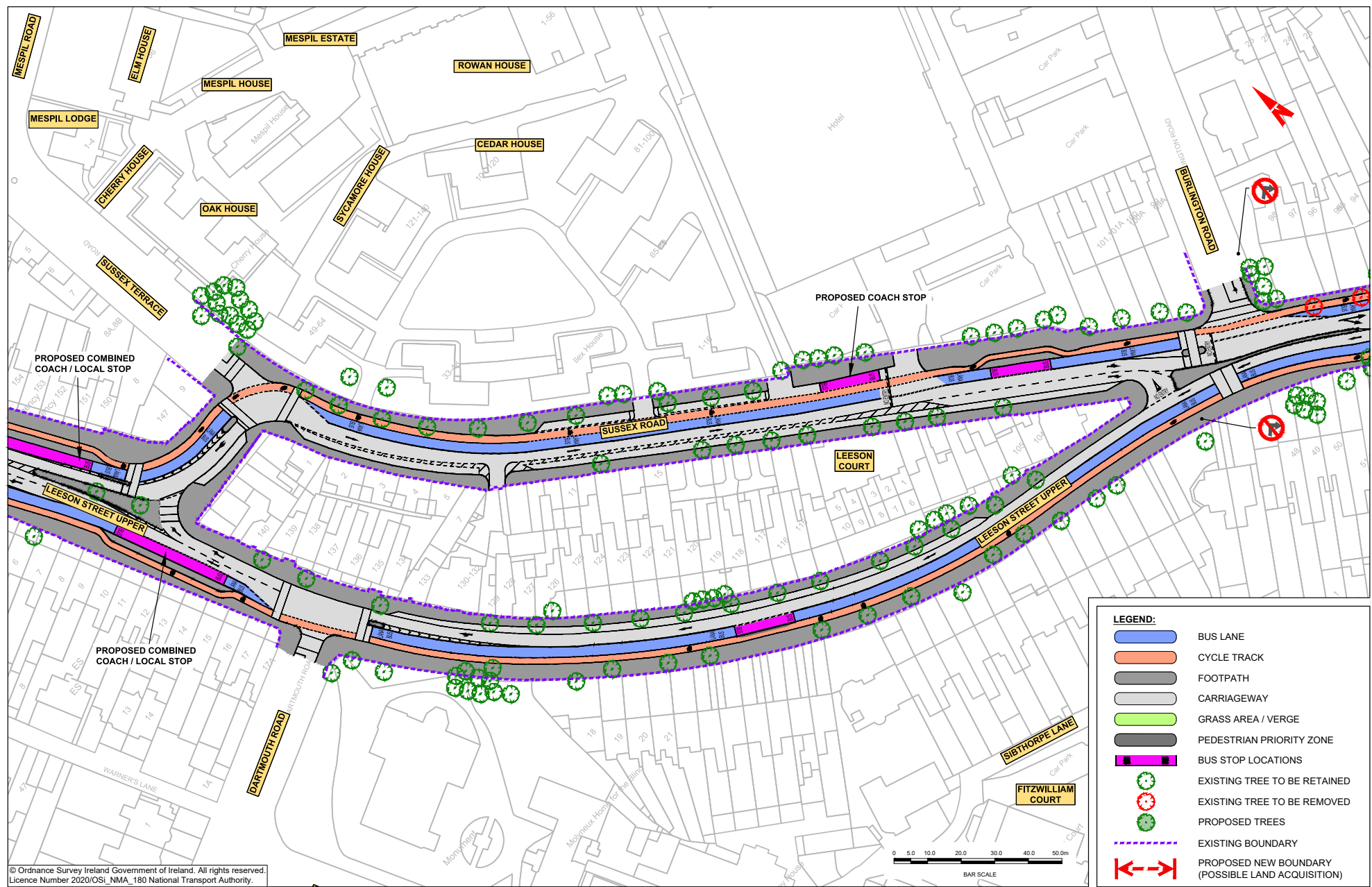


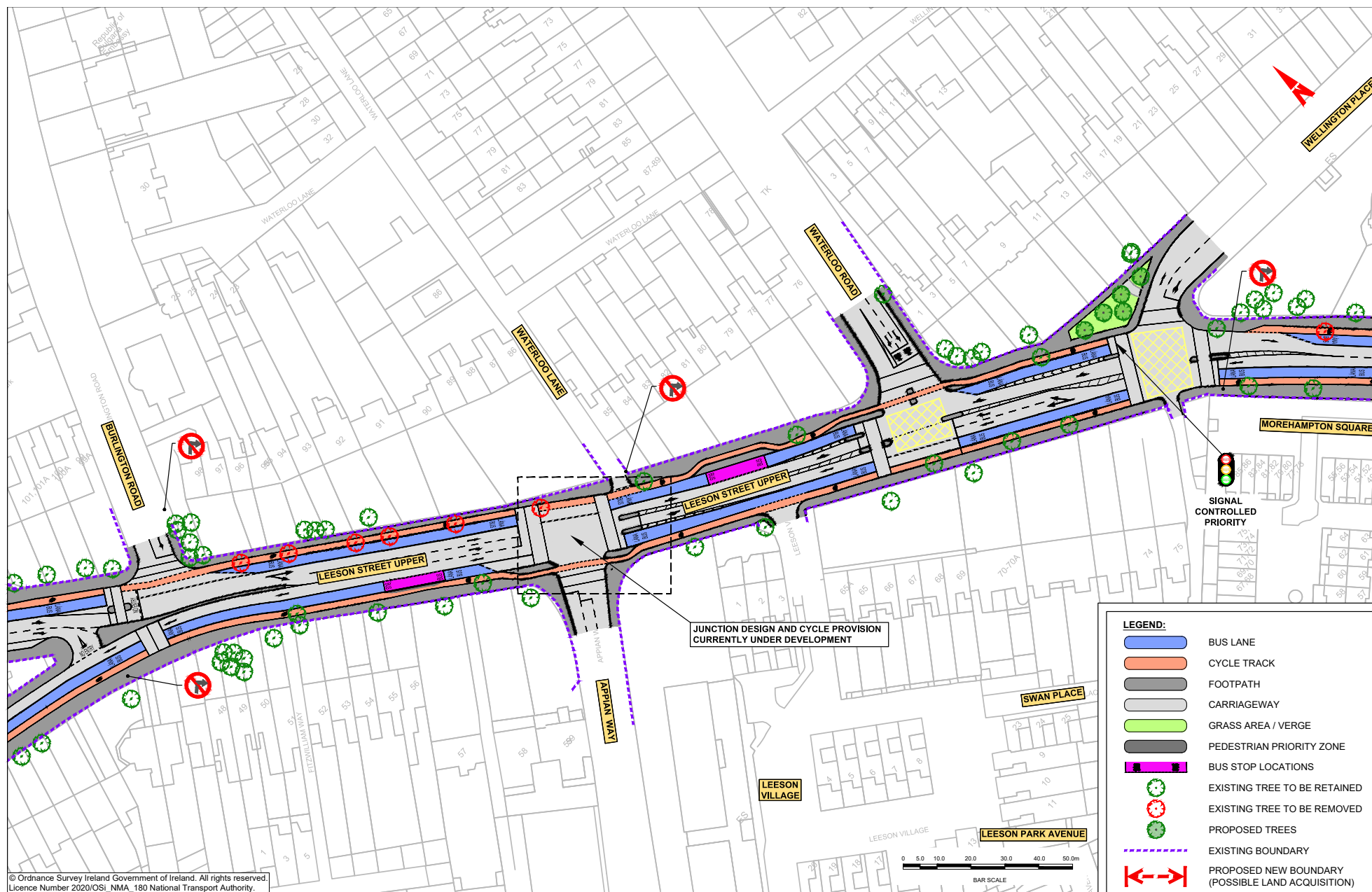


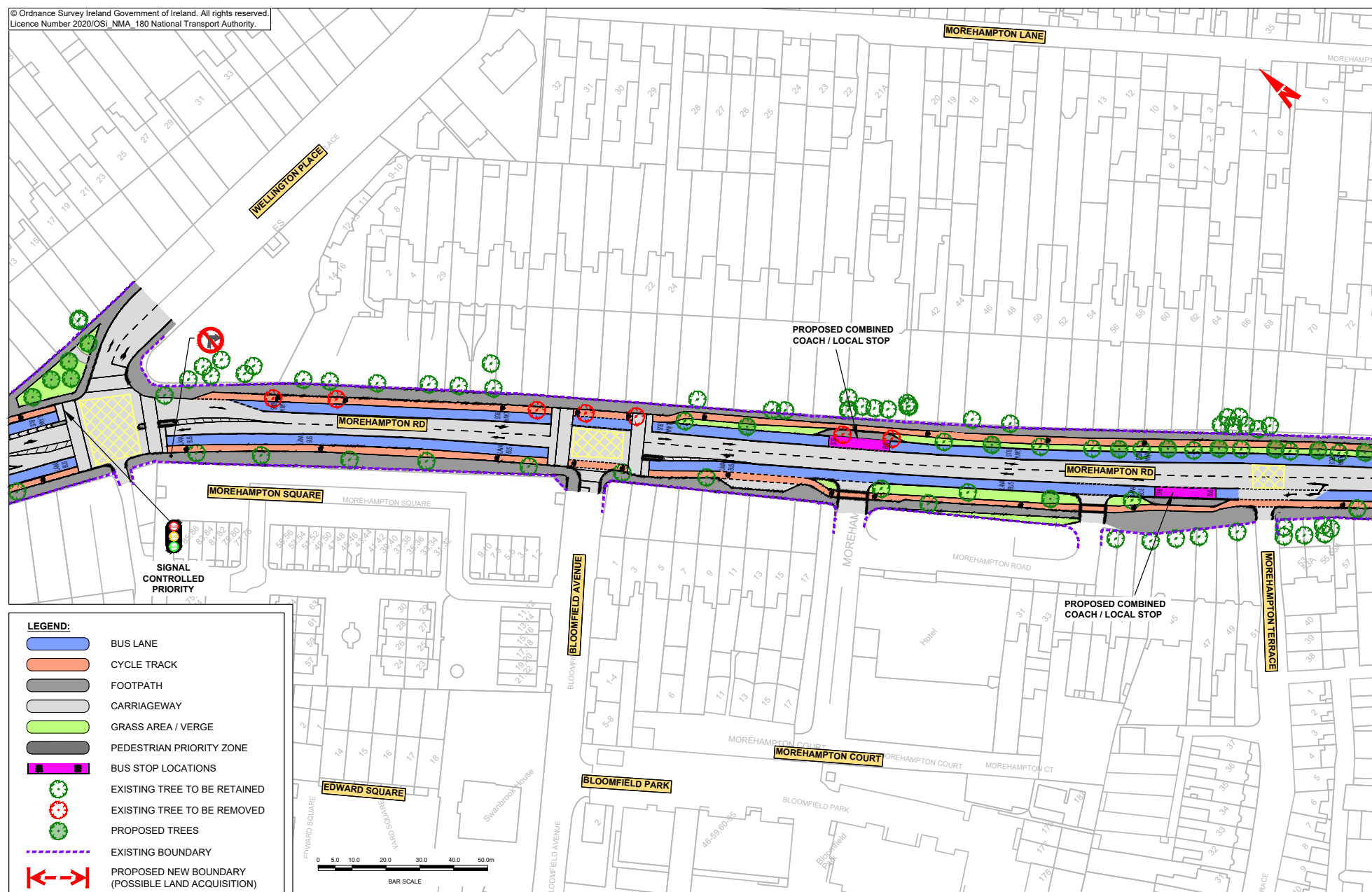
NOTE: The Preferred Route shown on the following drawings is indicative only and is subject to change following consultation and as part of the design development process.

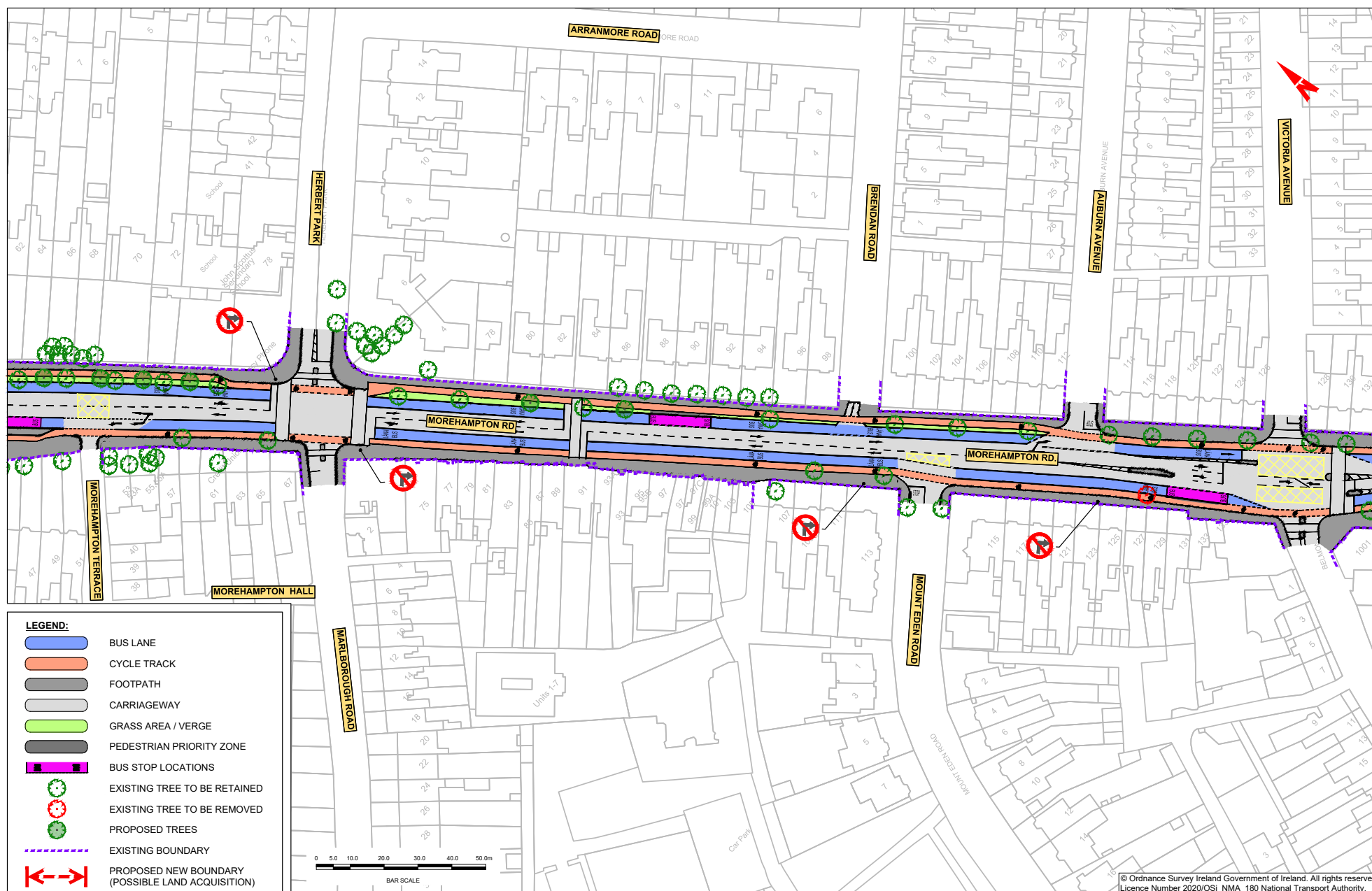


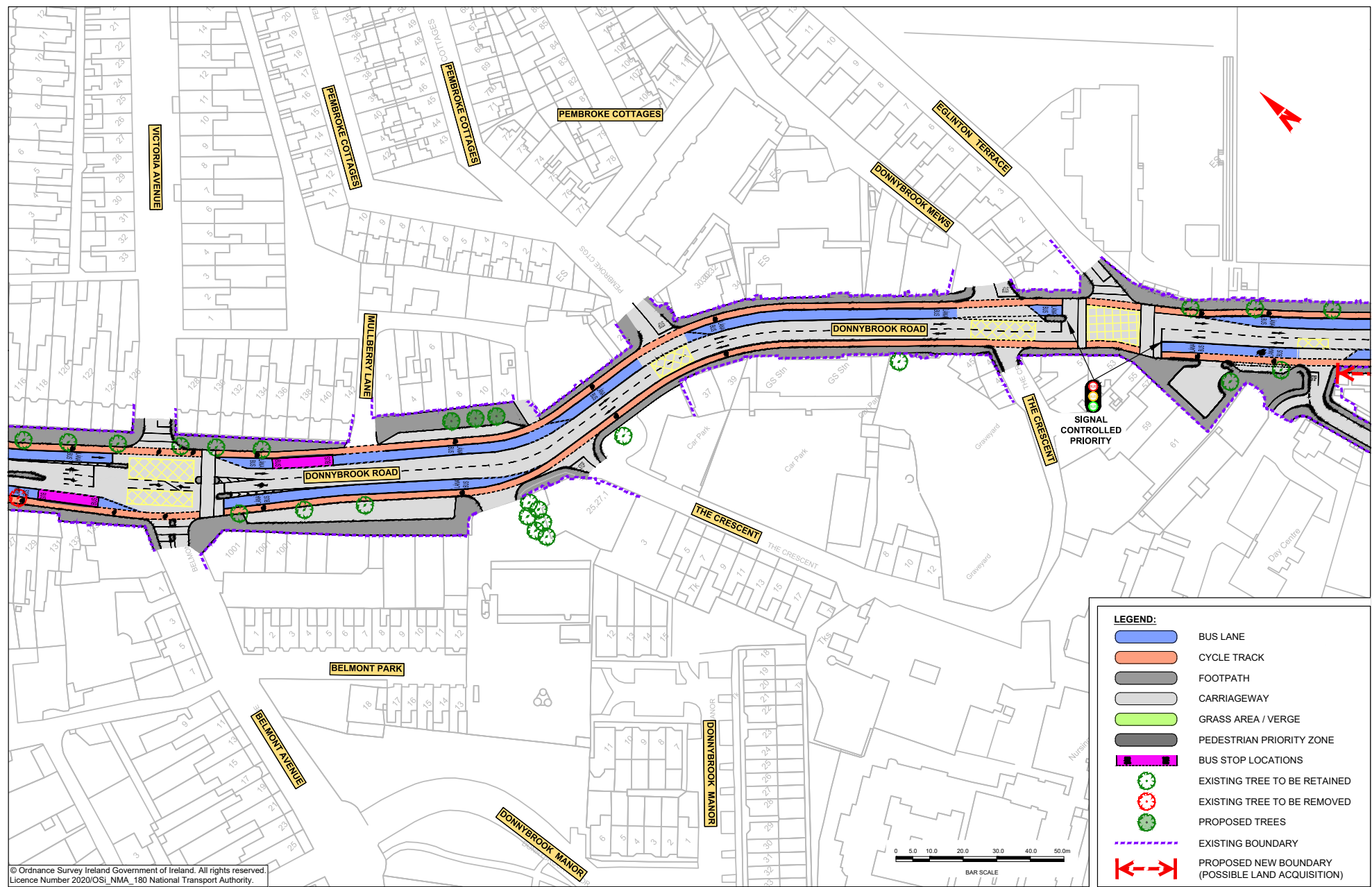


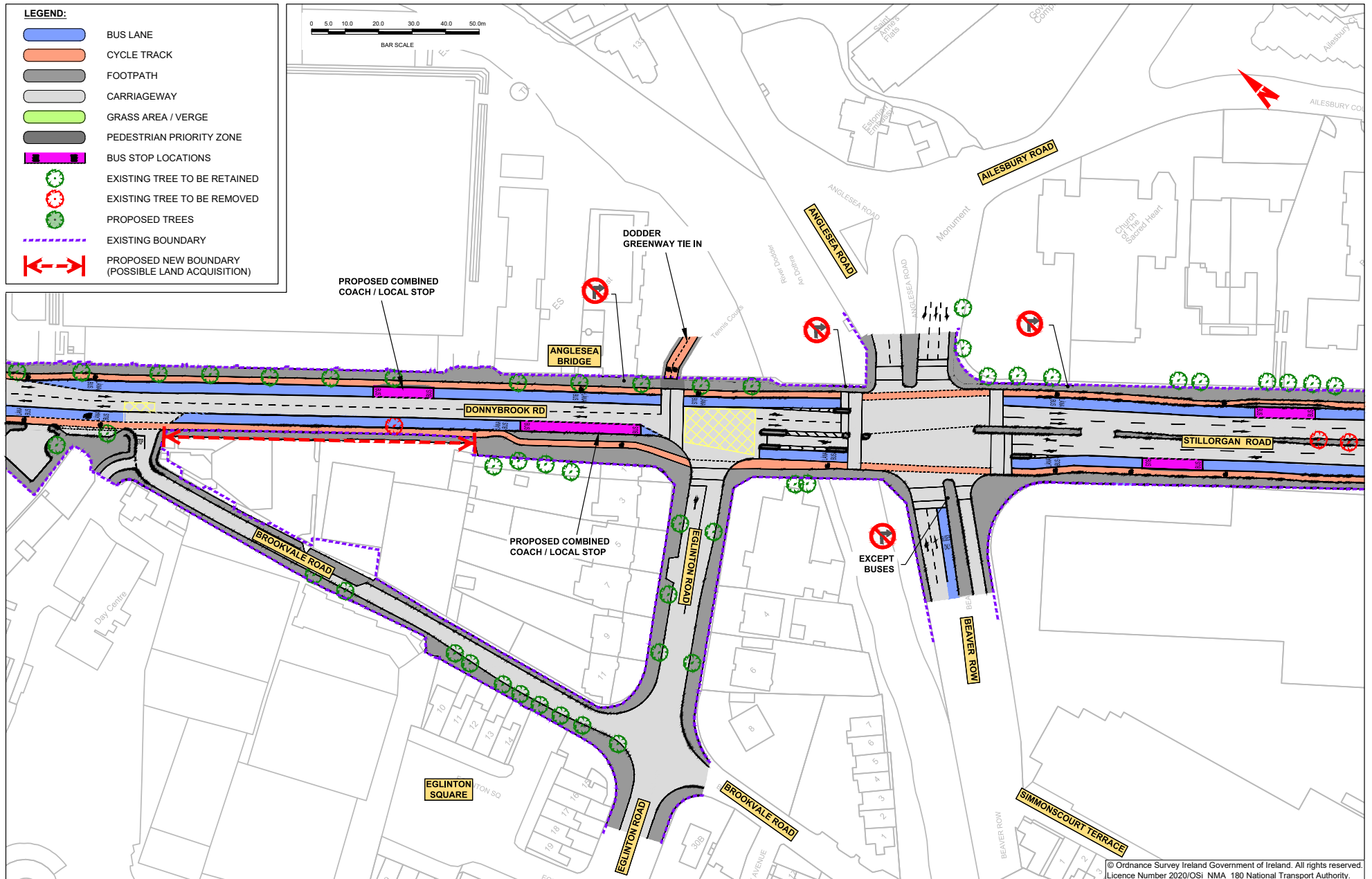


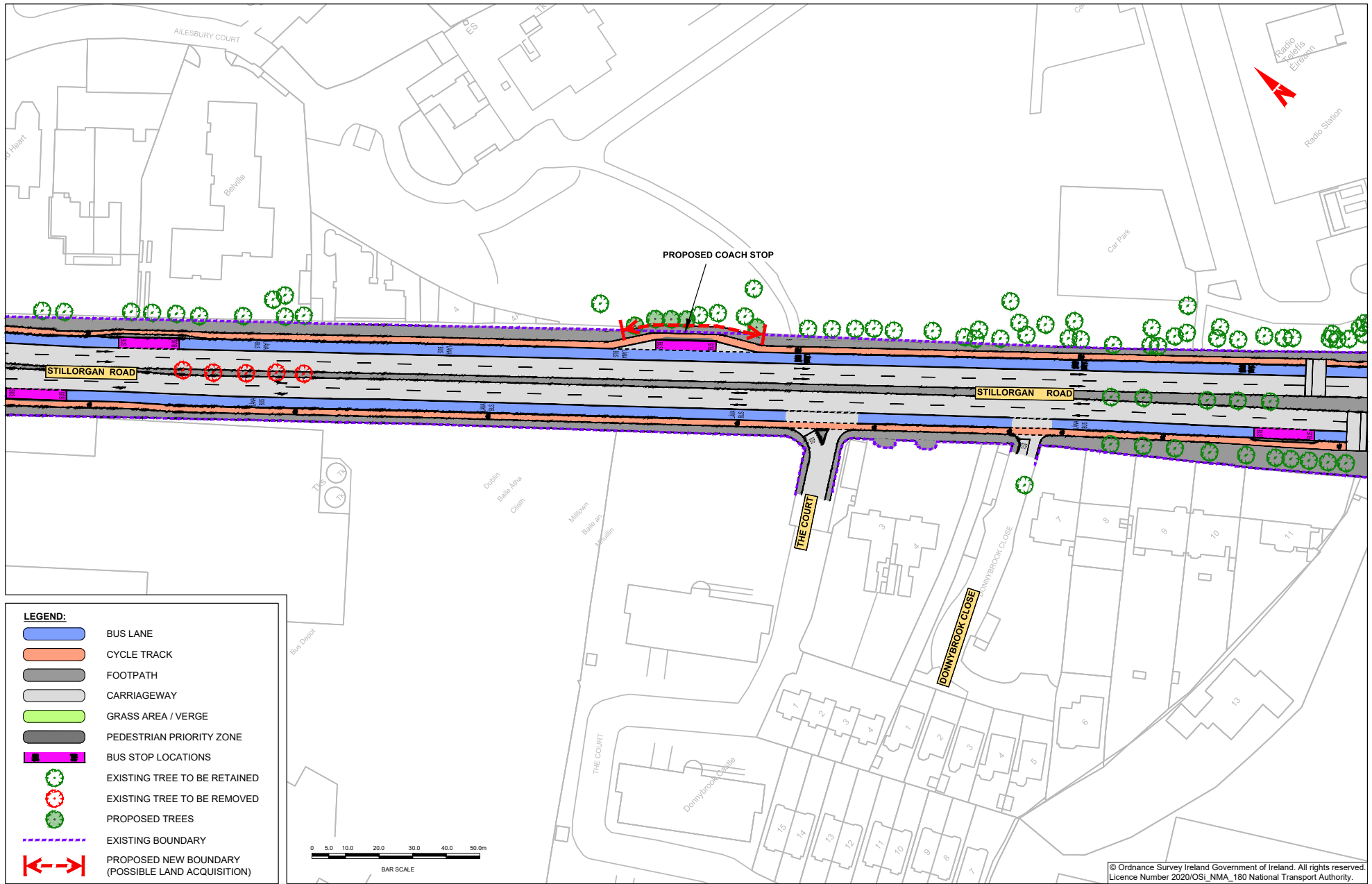


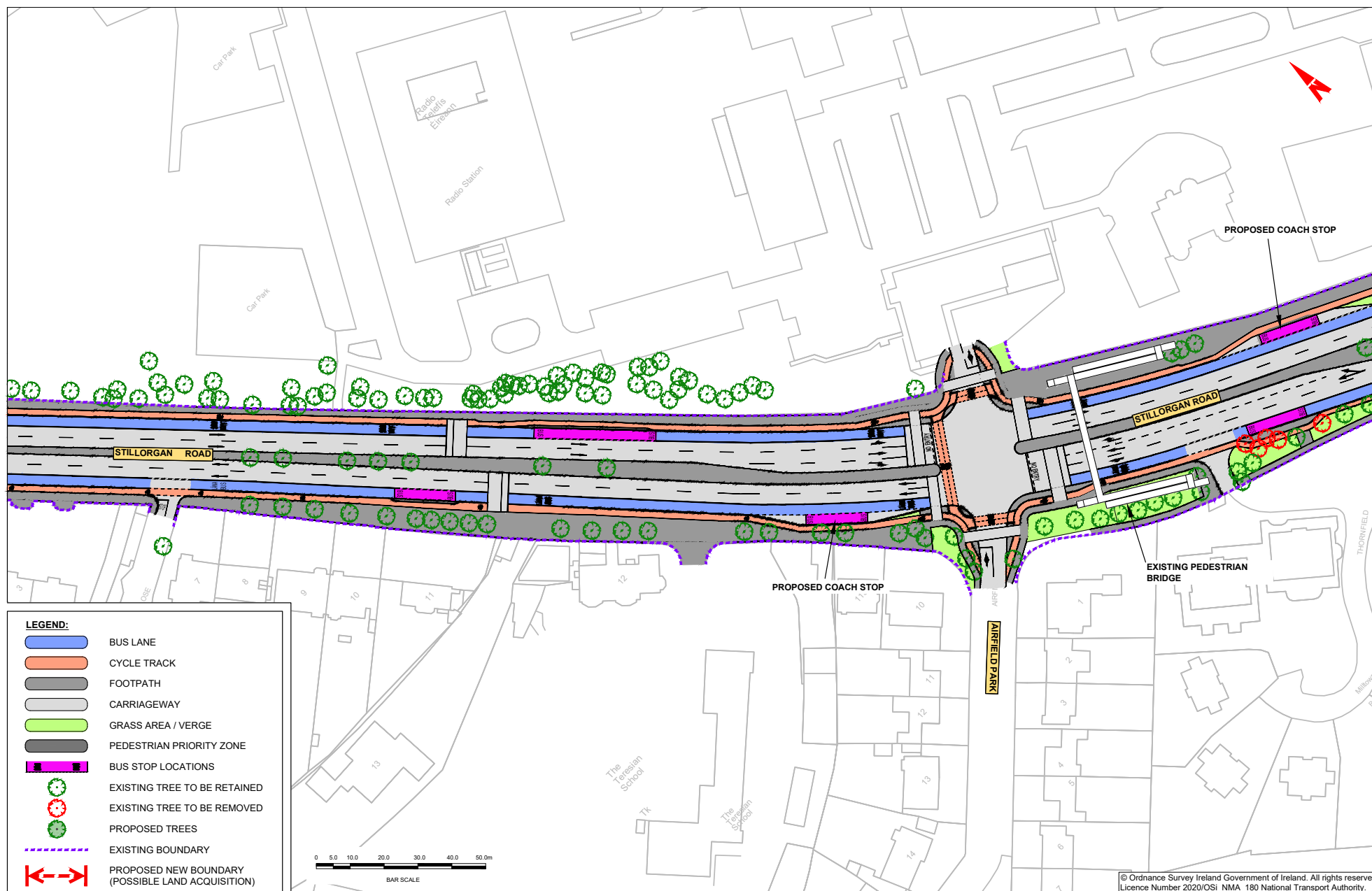


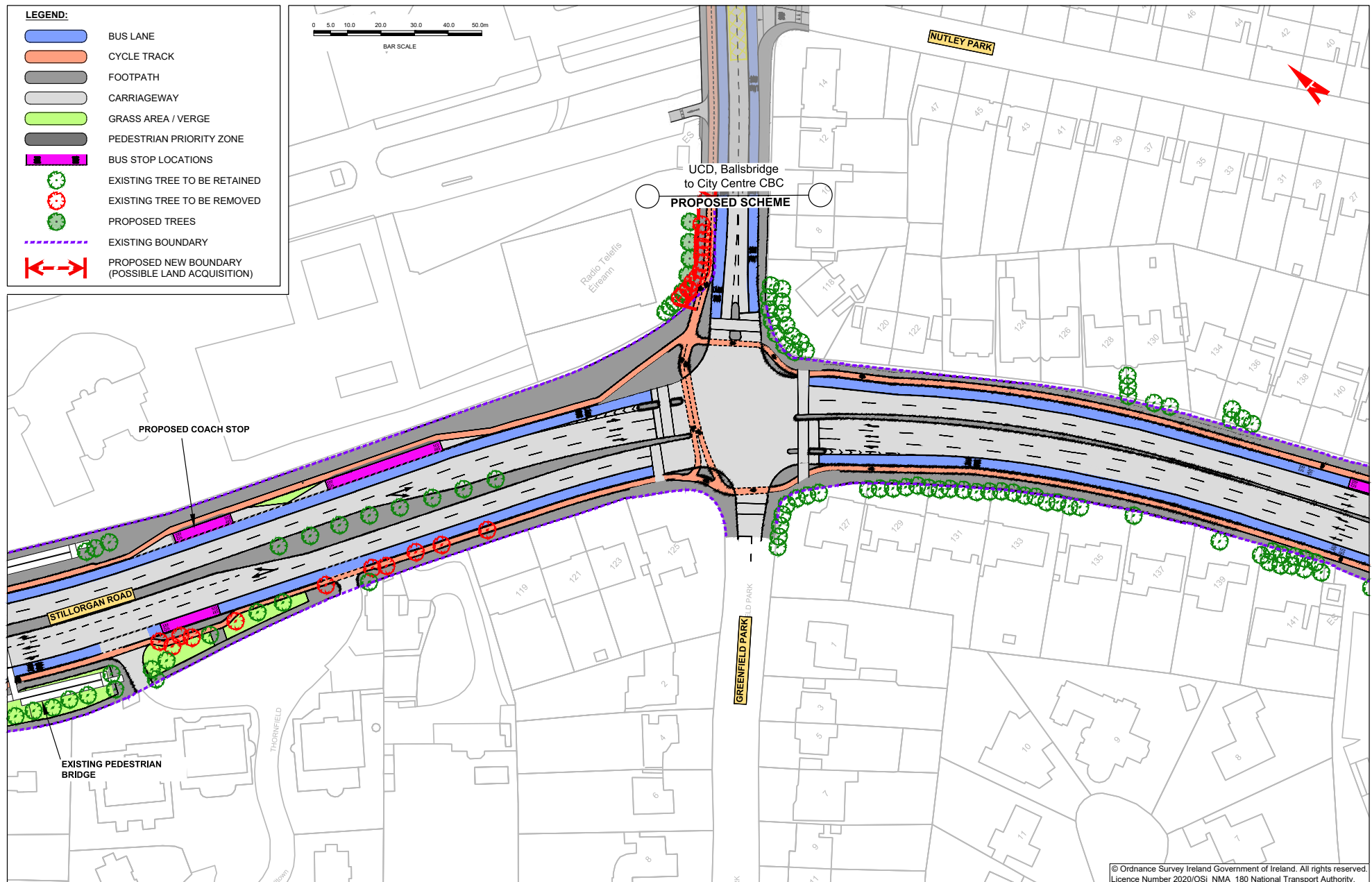


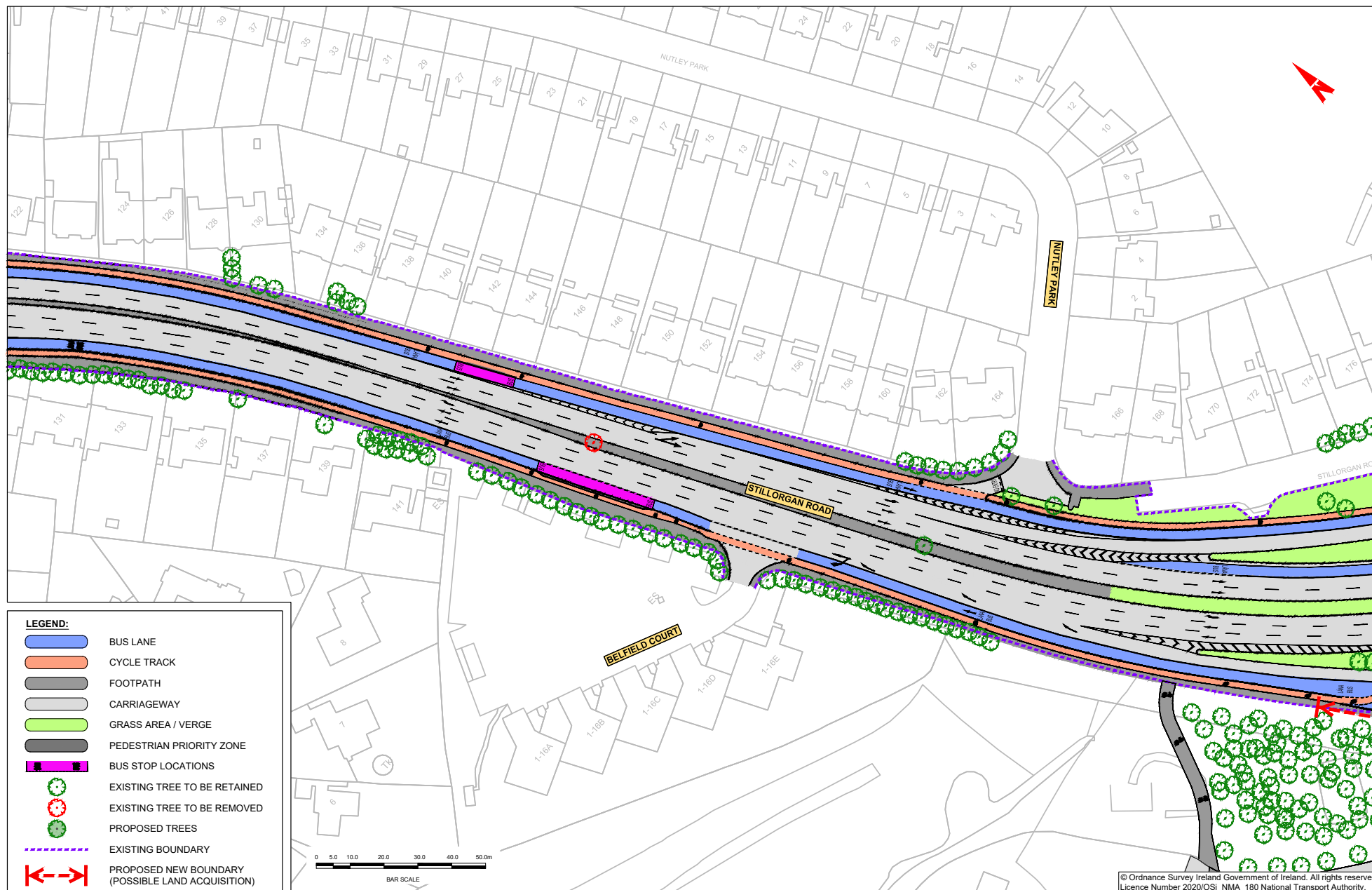


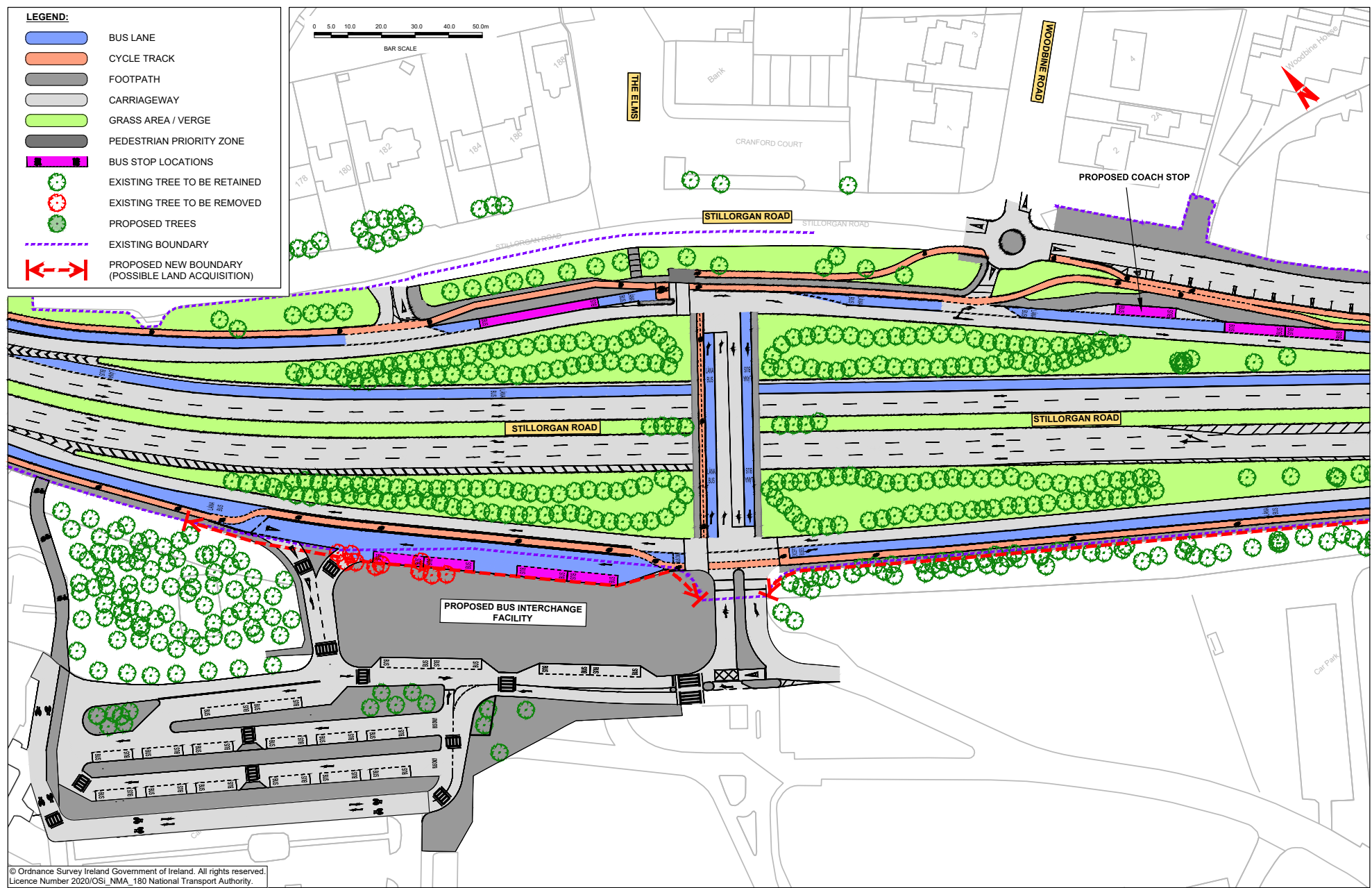


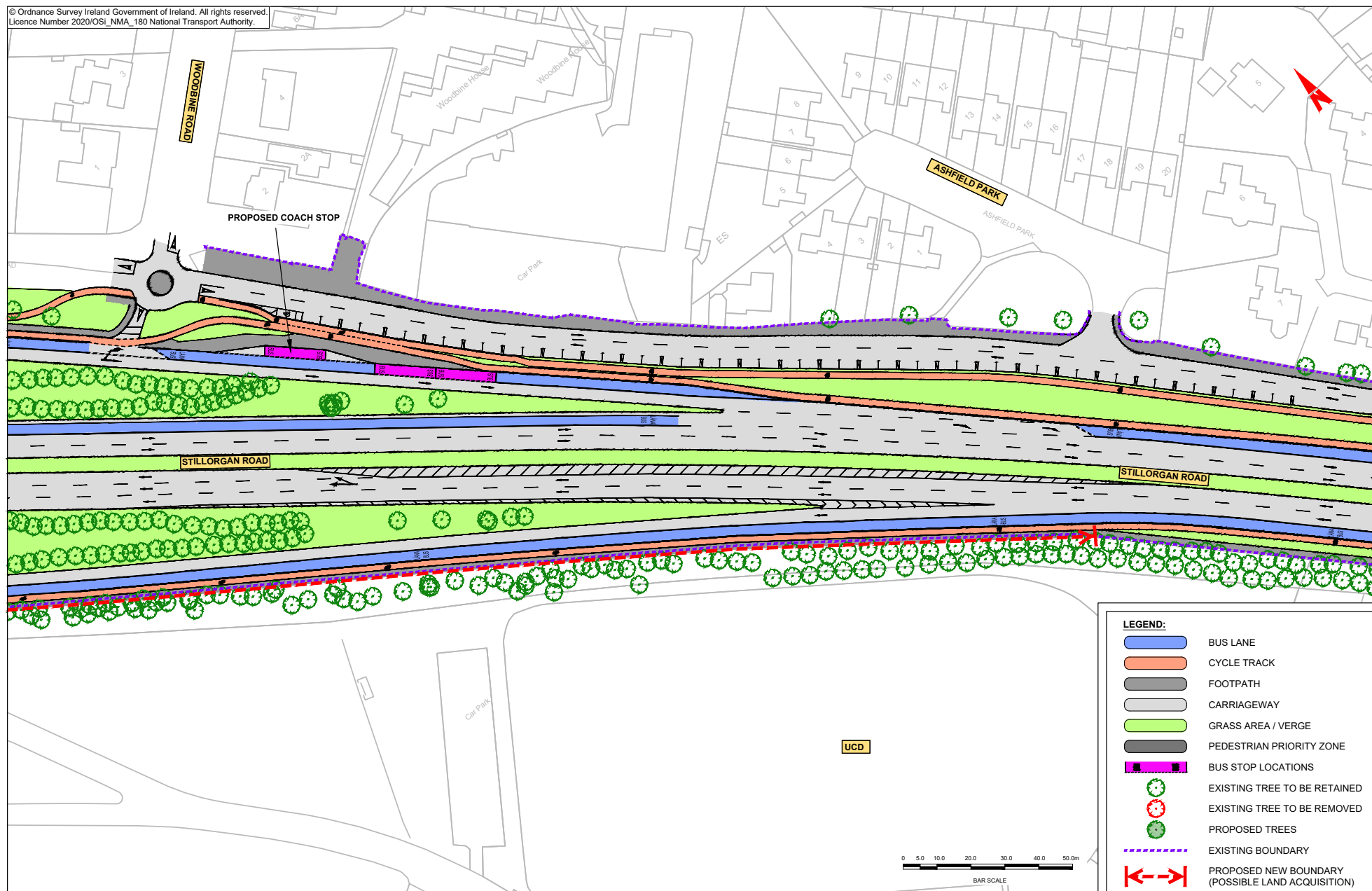


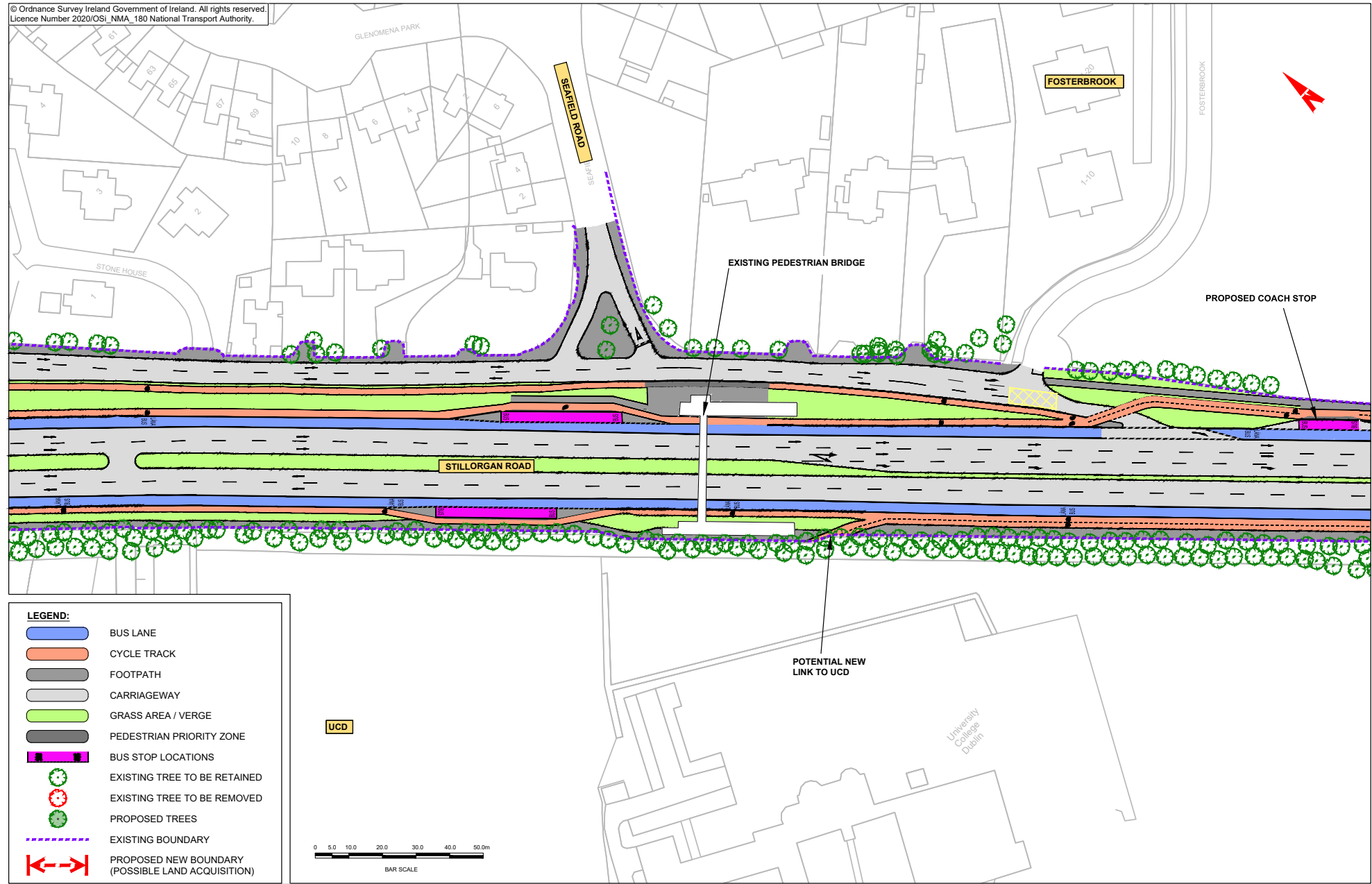


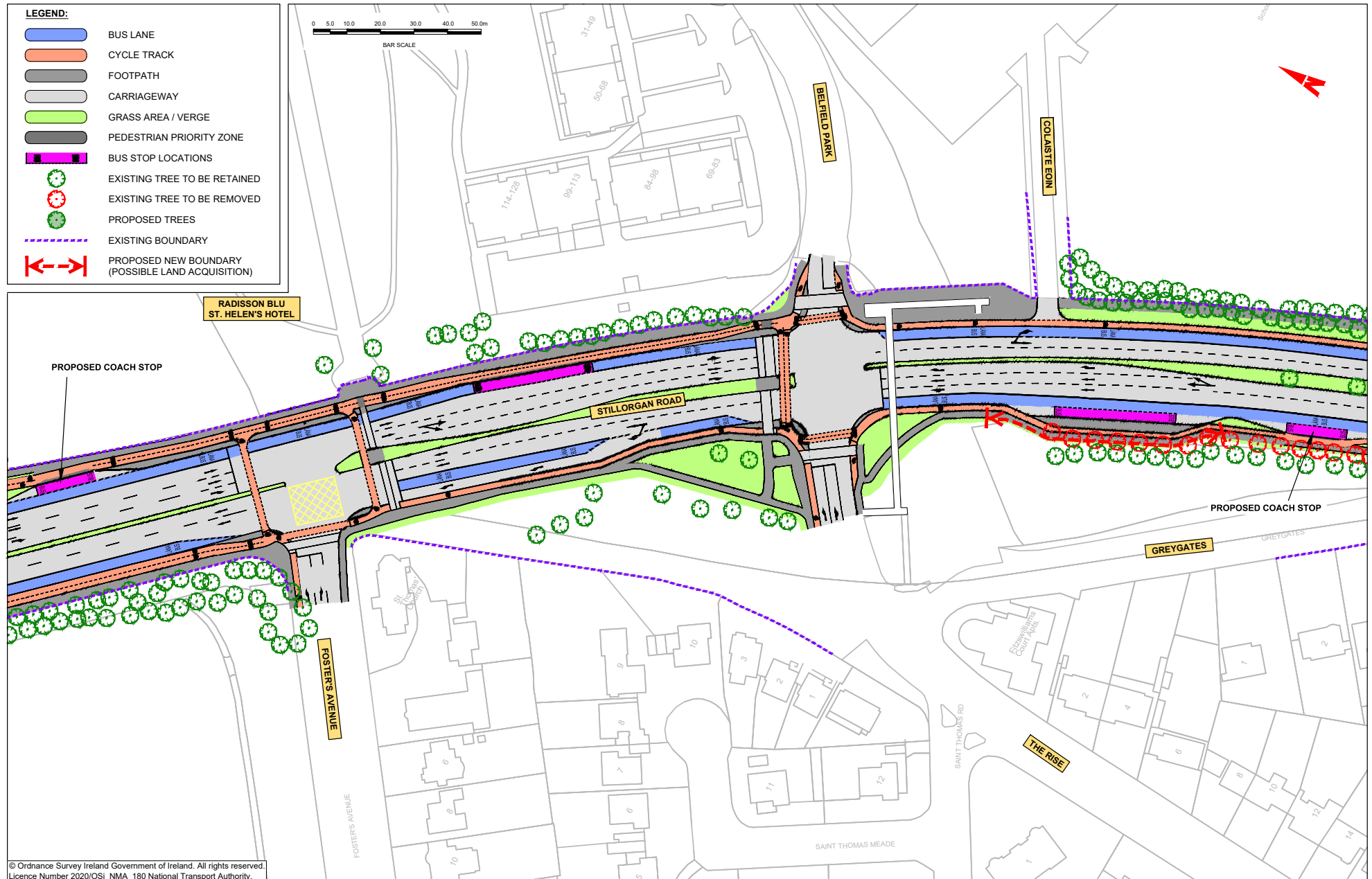


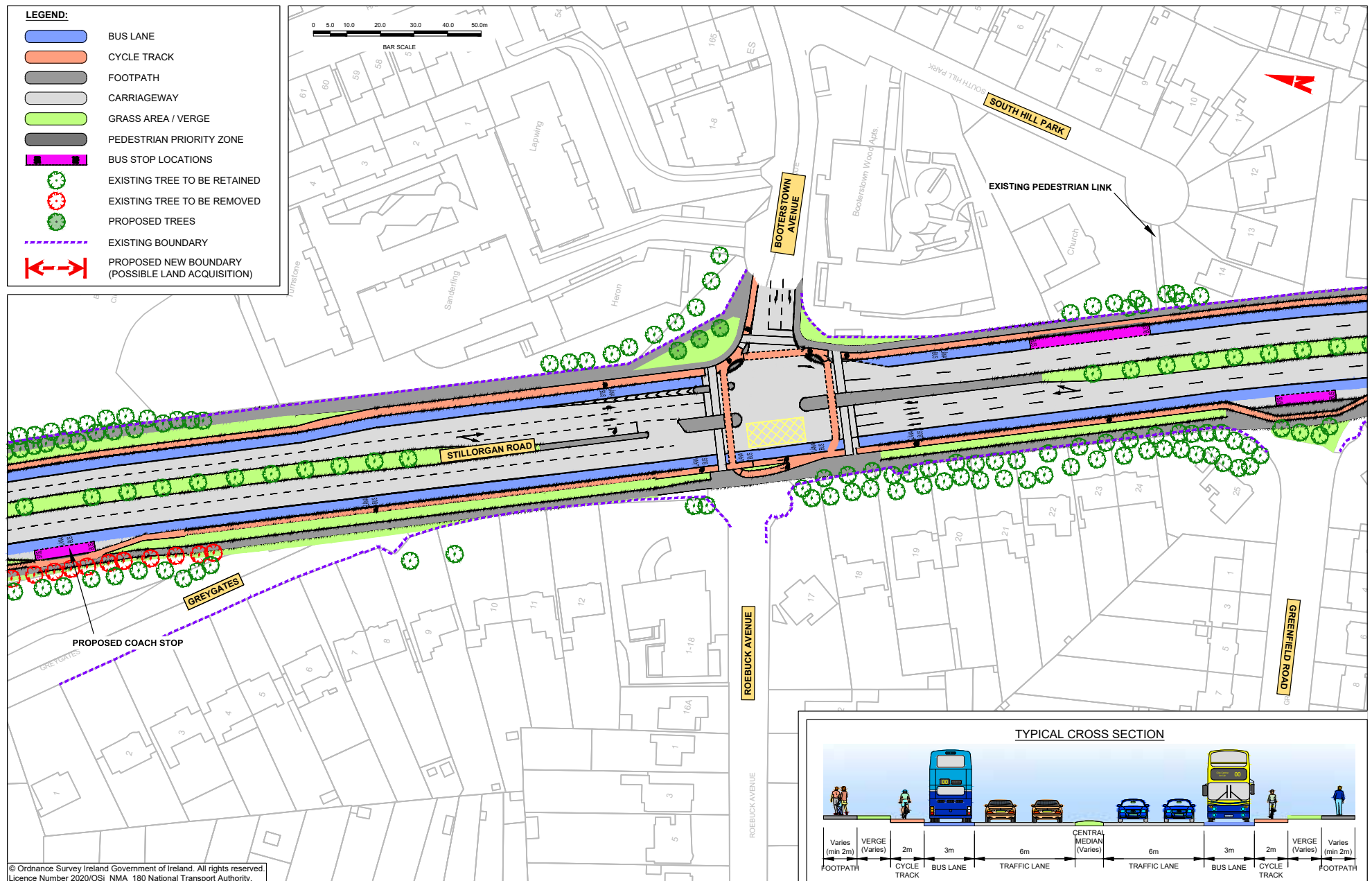


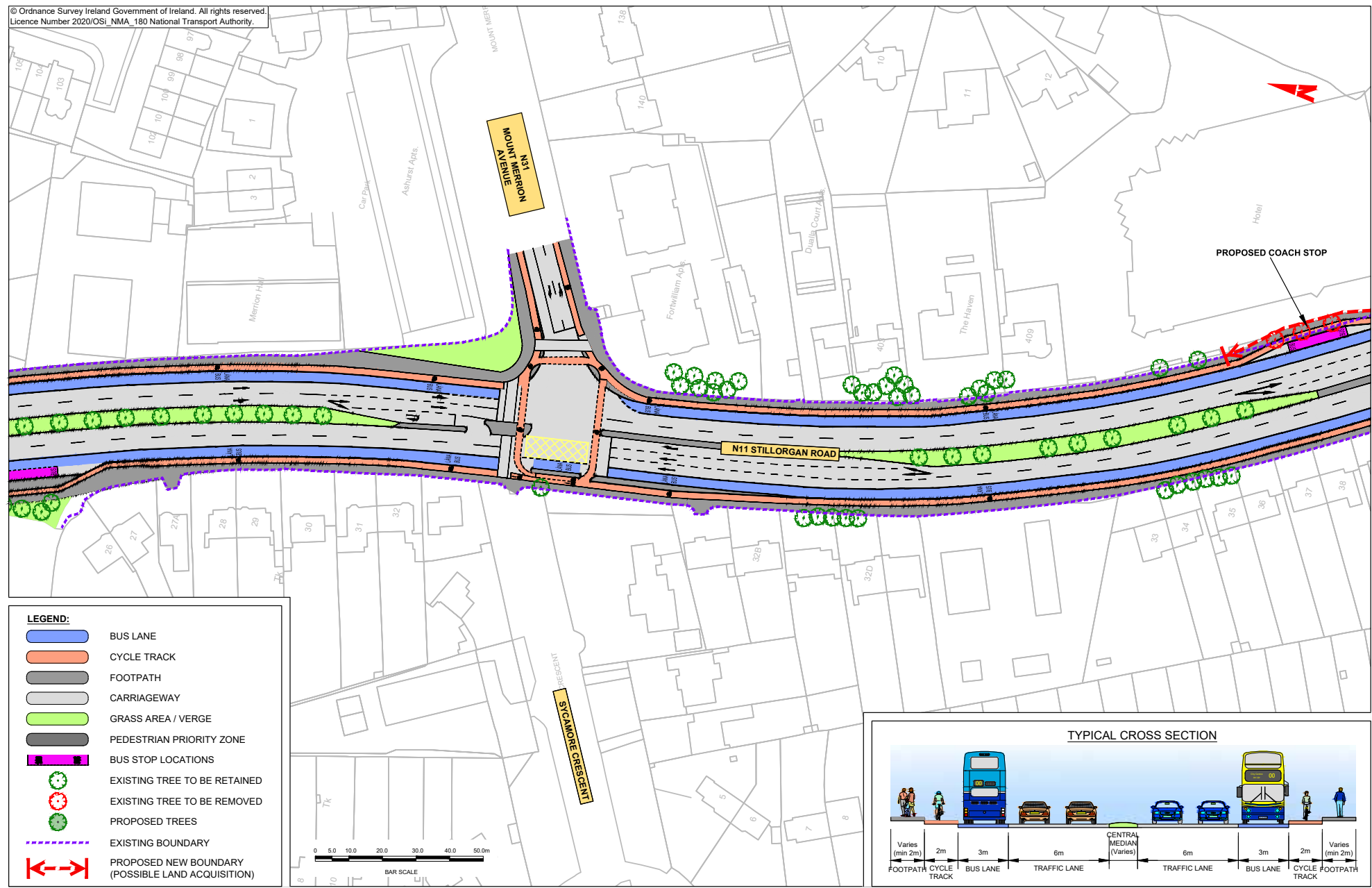




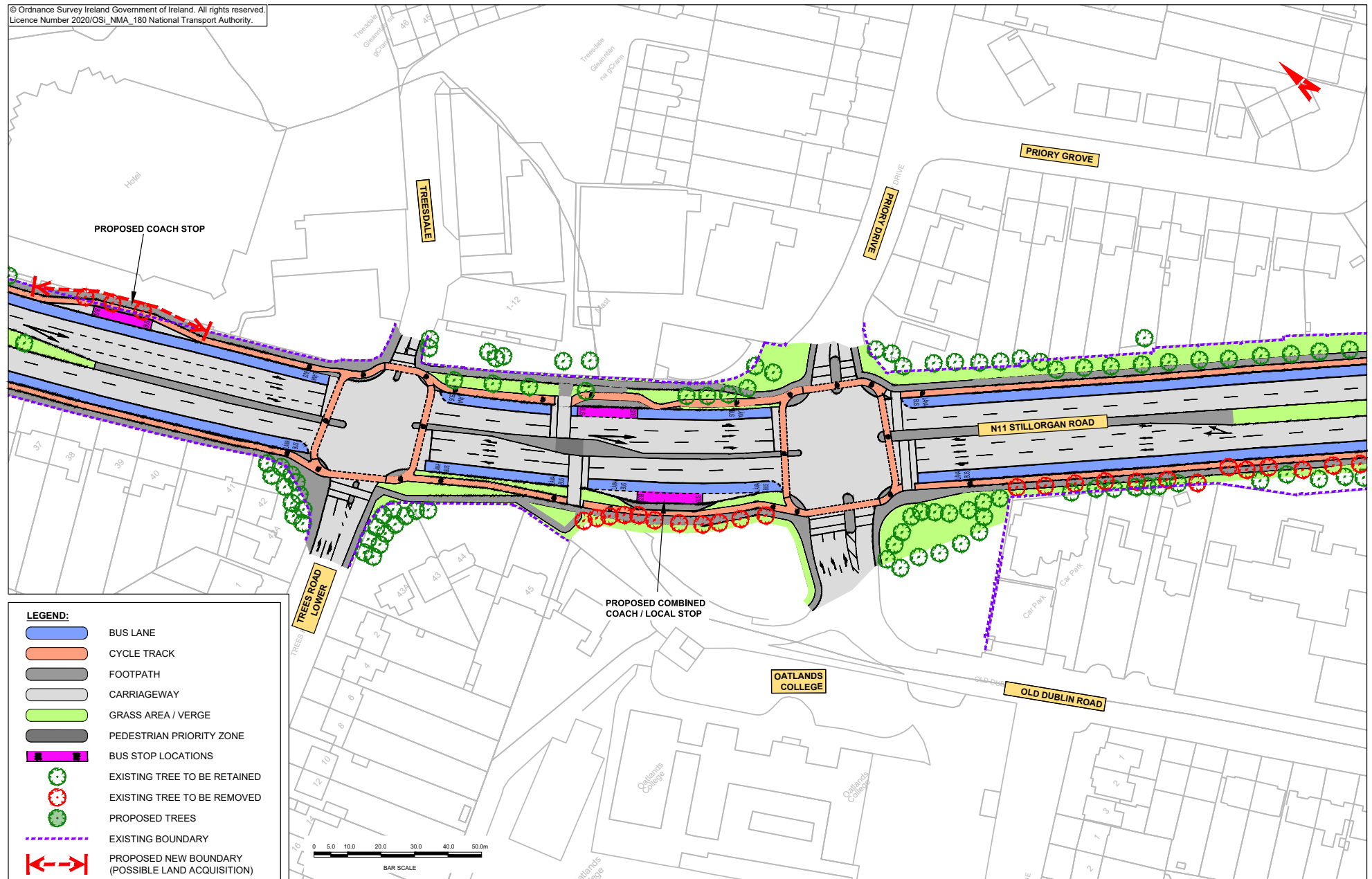


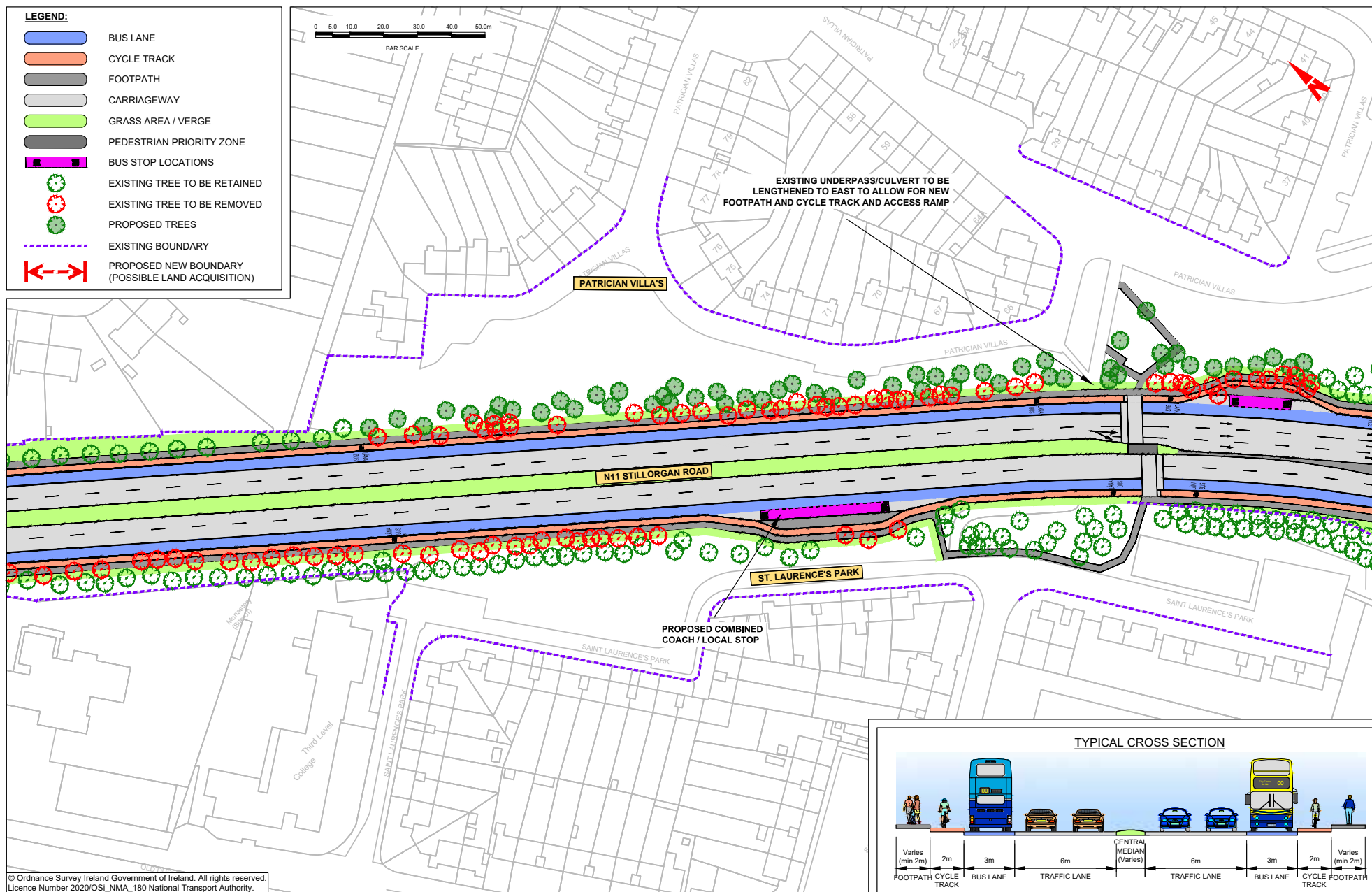


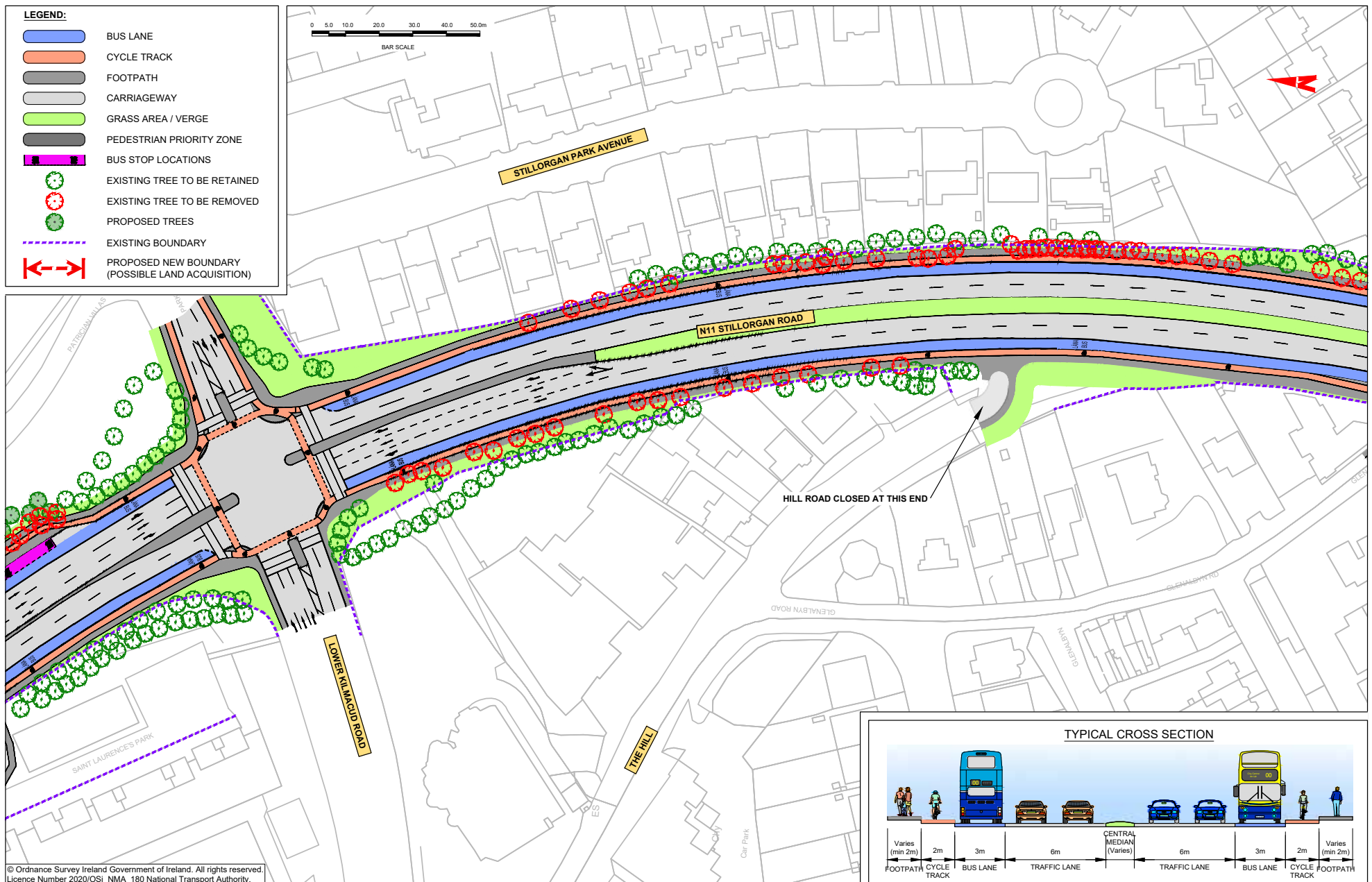


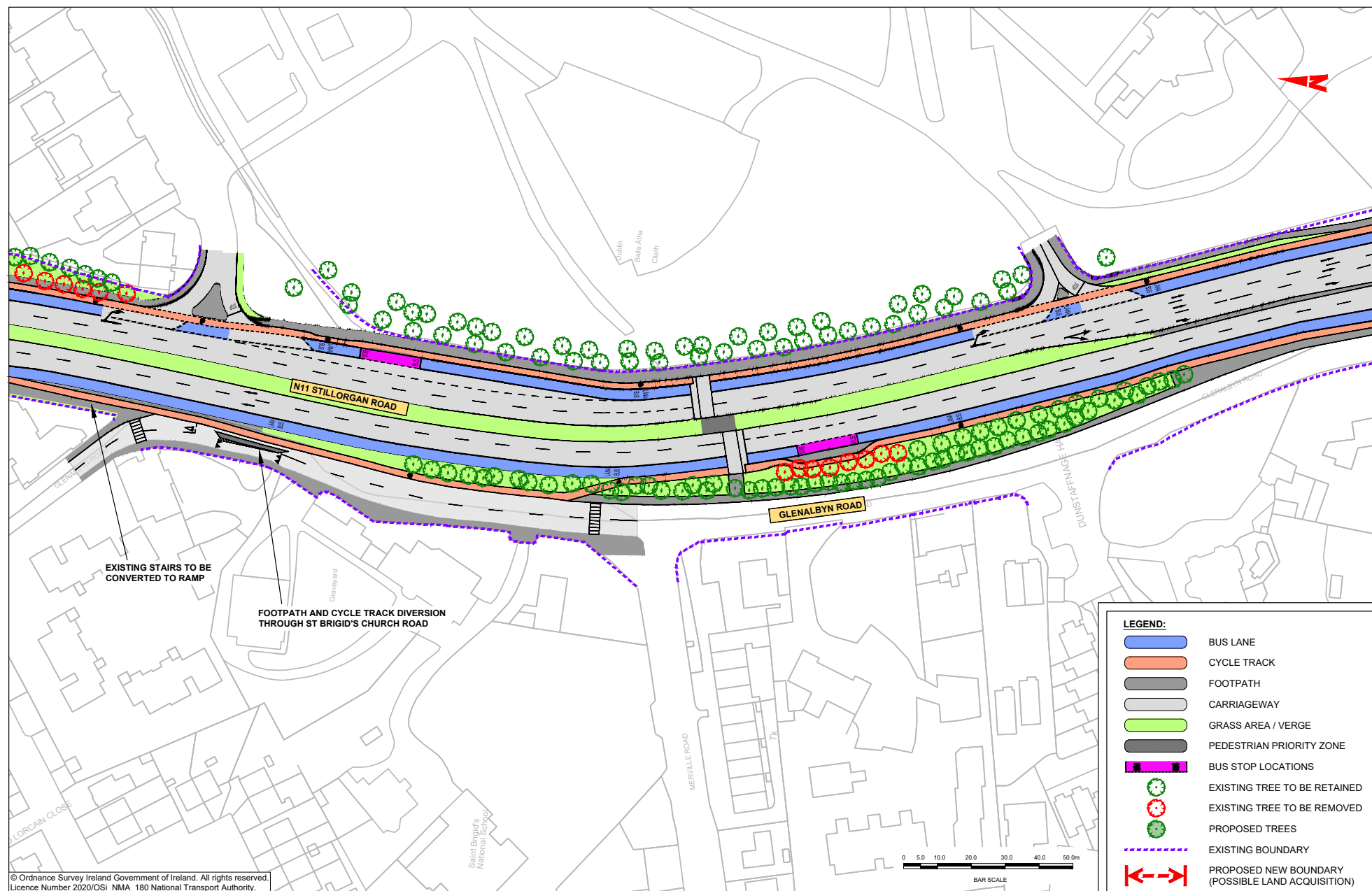


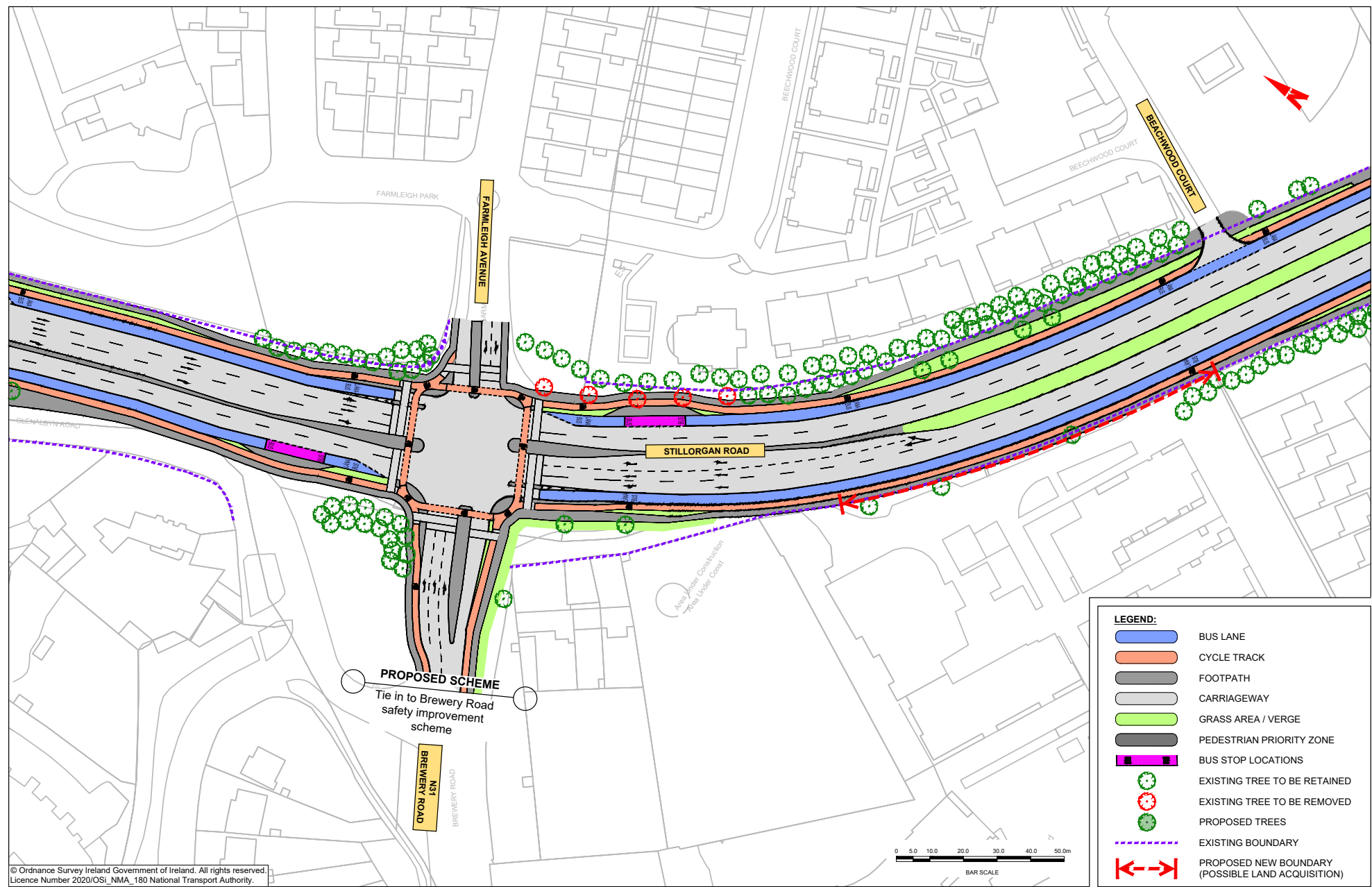
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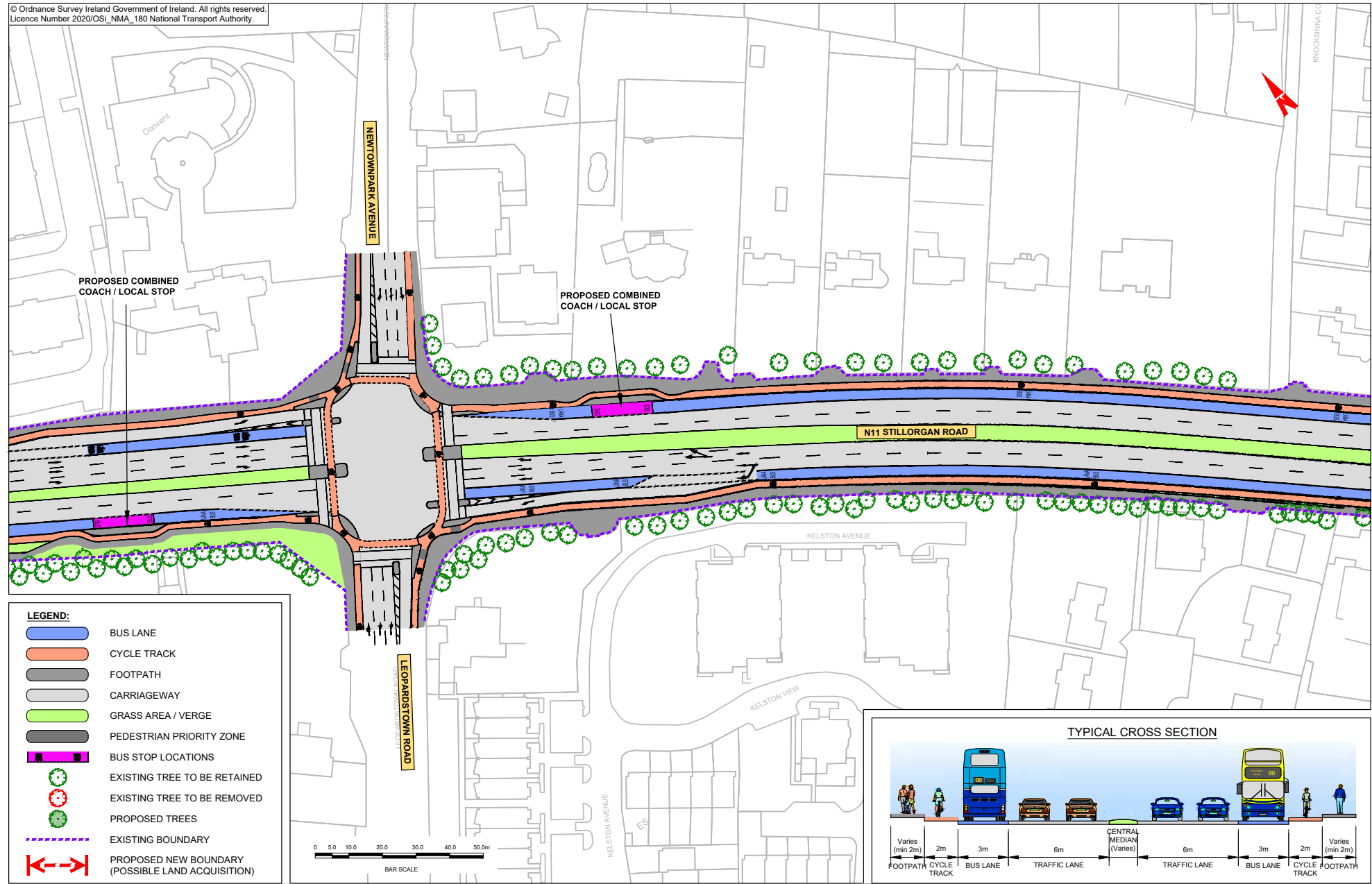




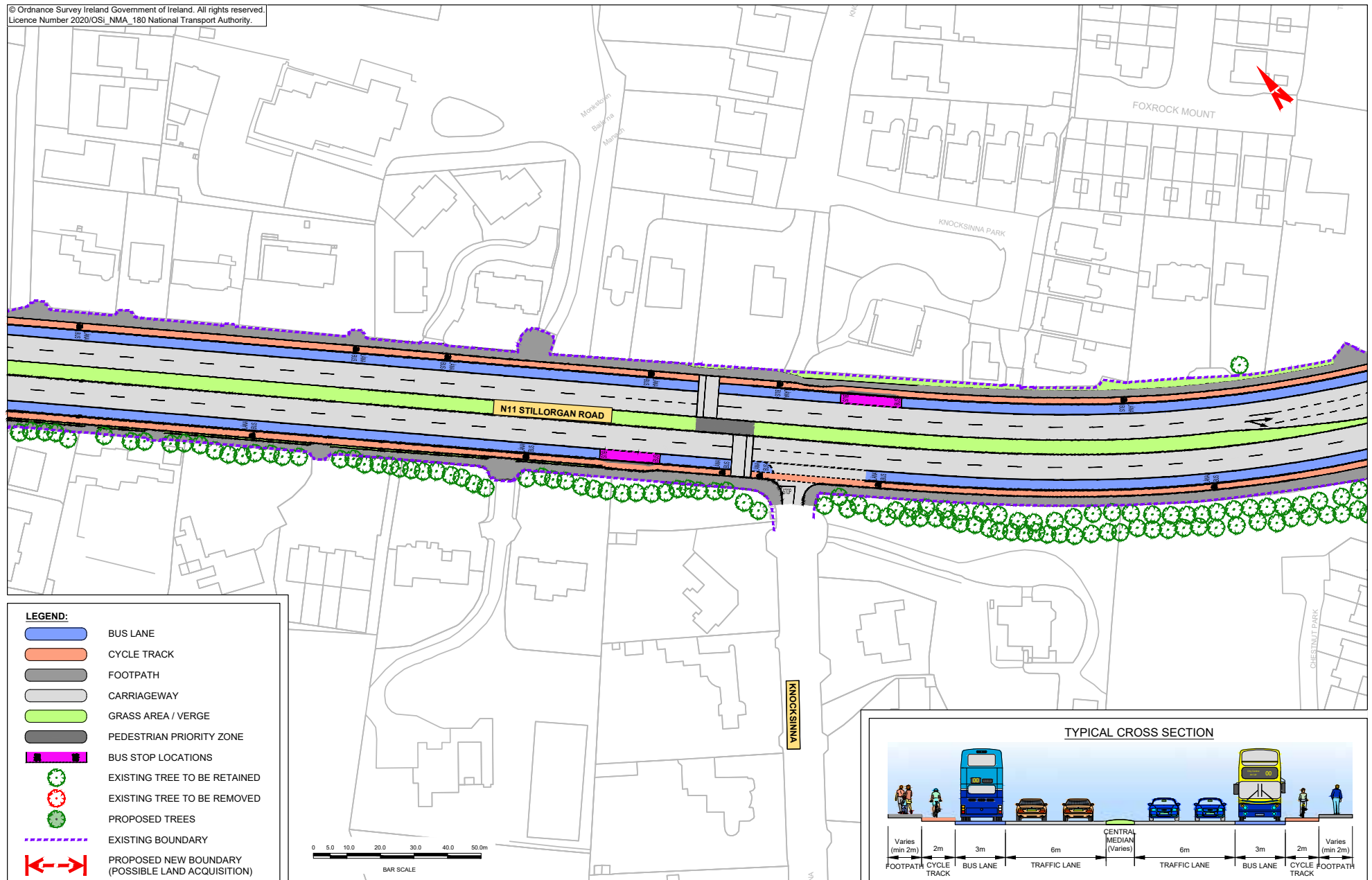


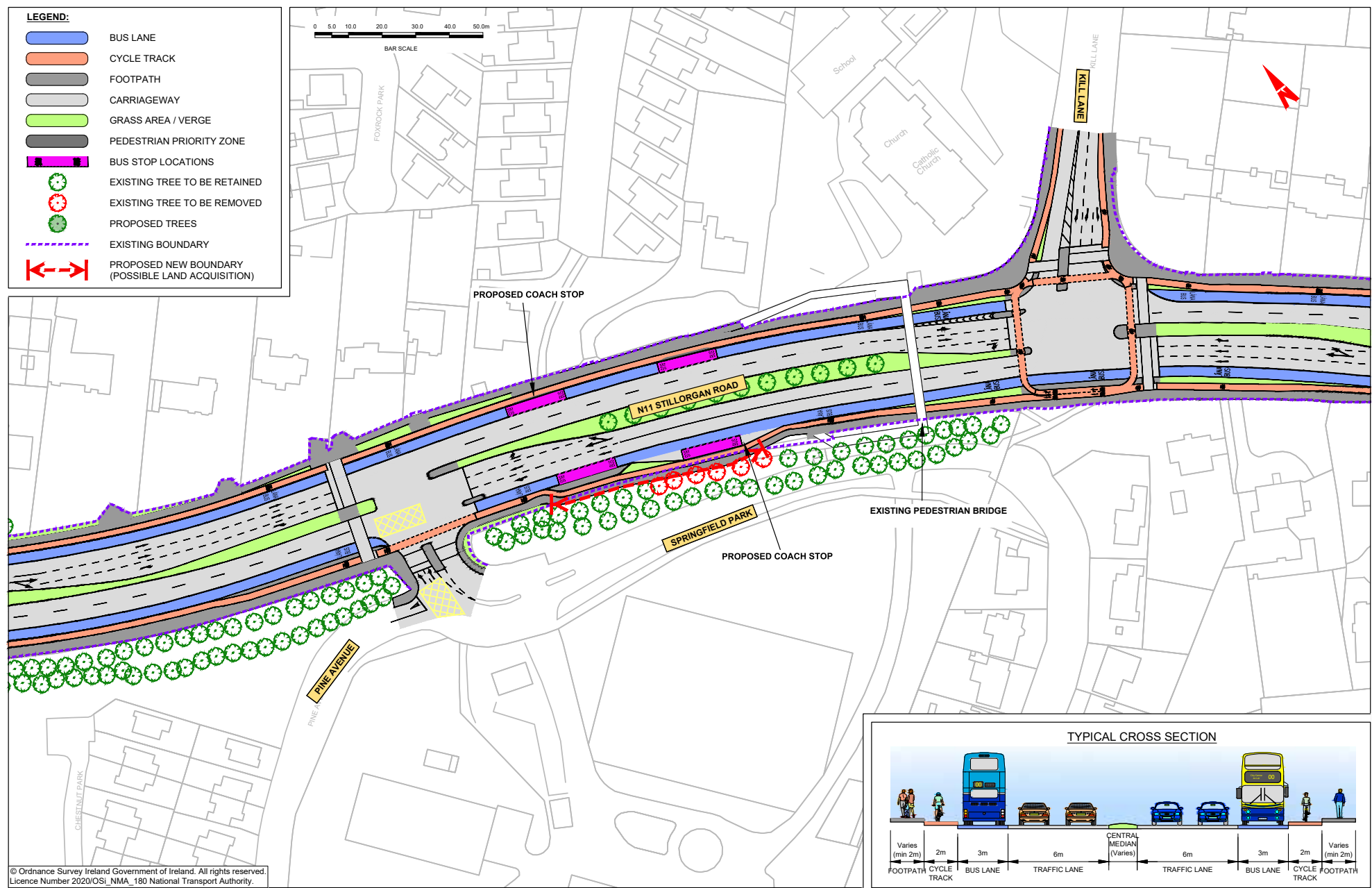


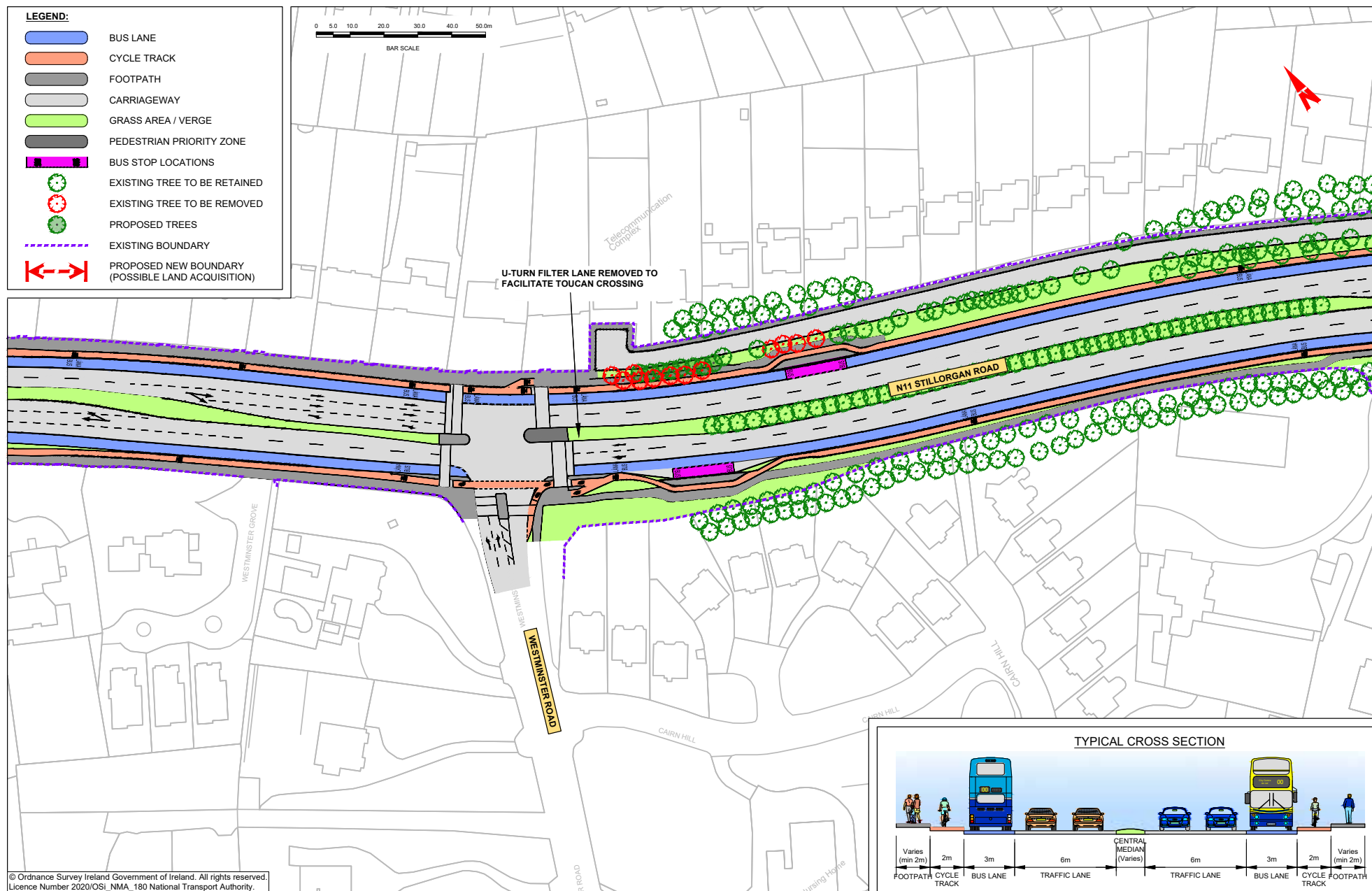




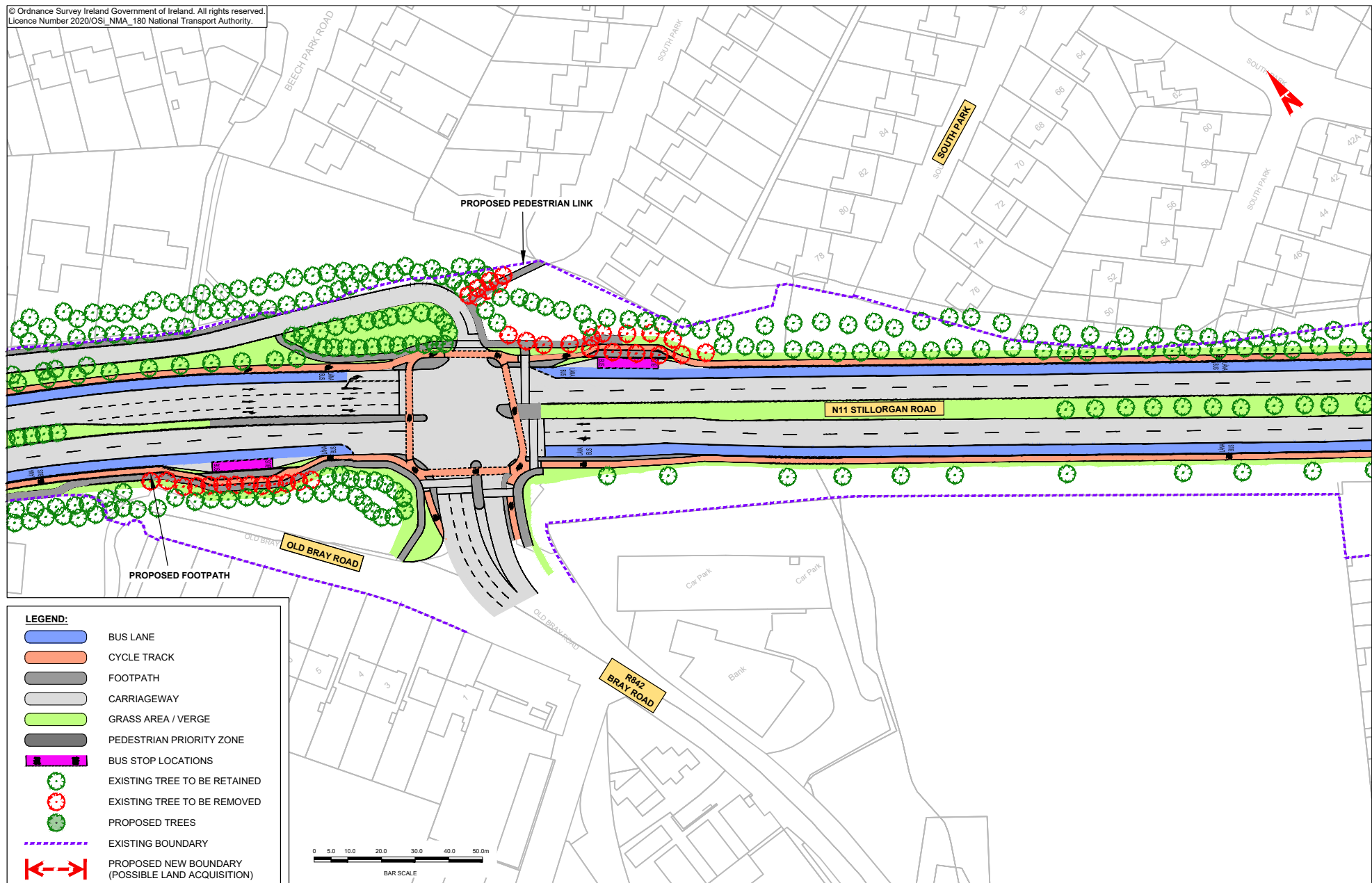
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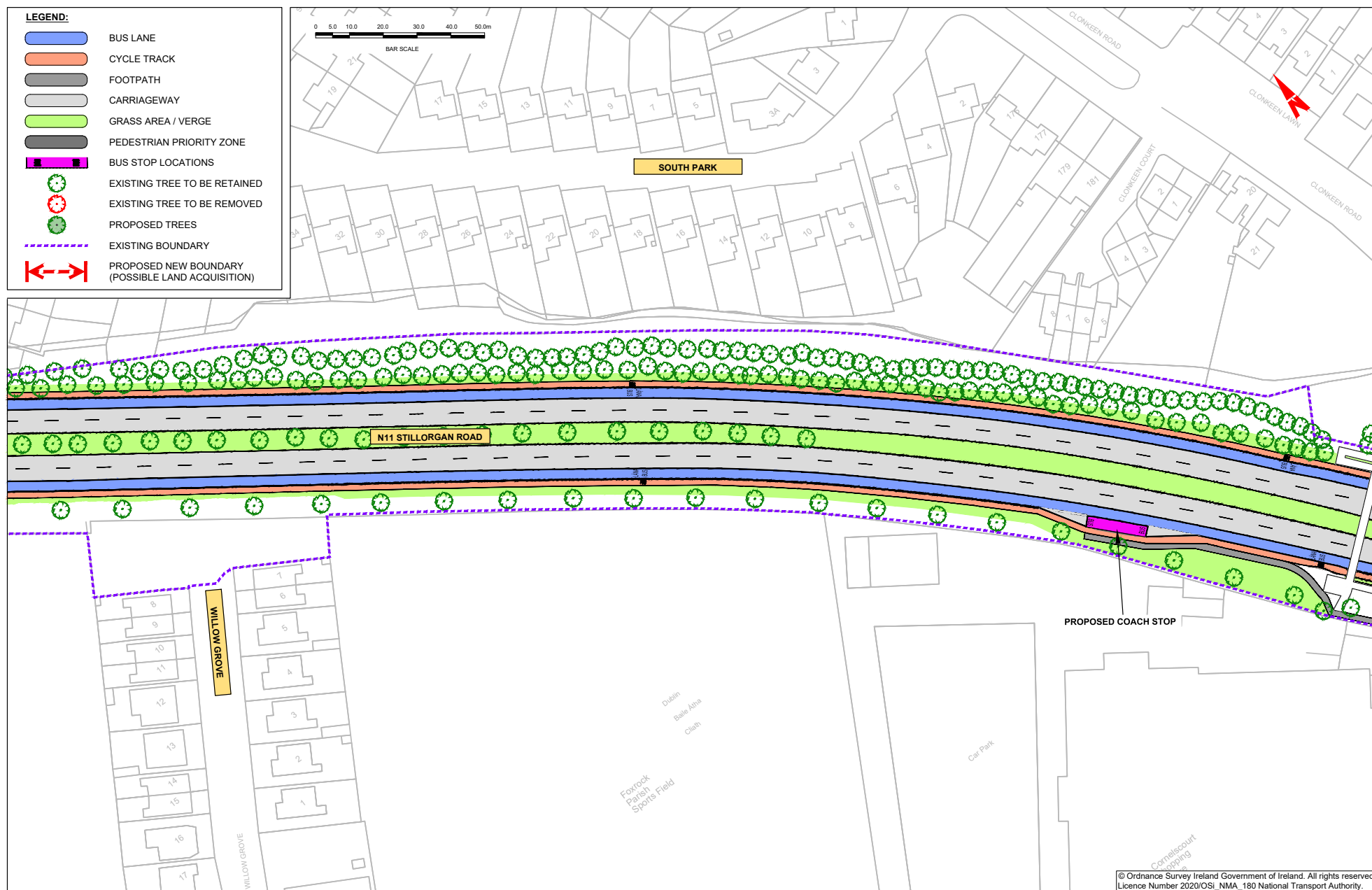


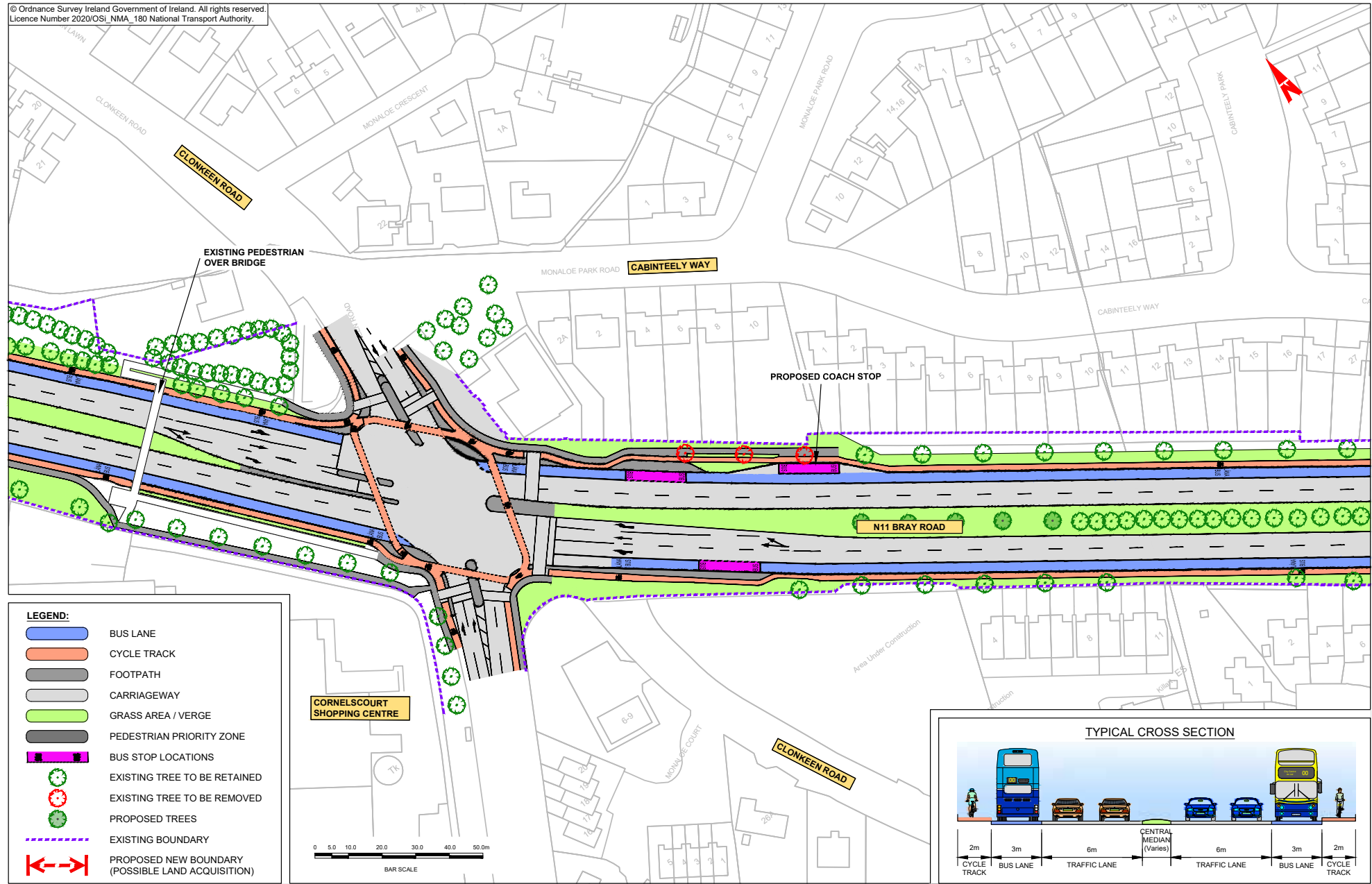




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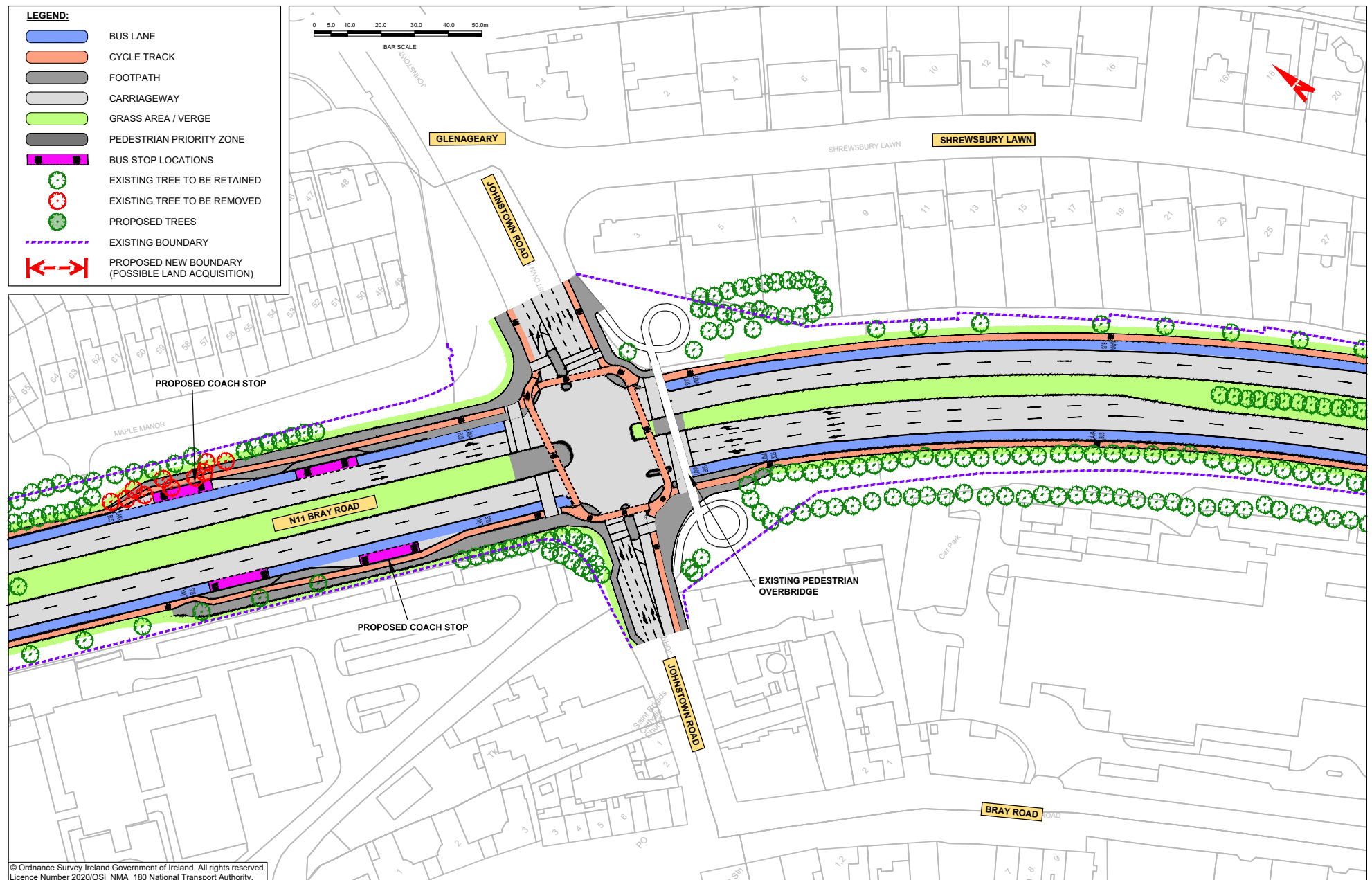


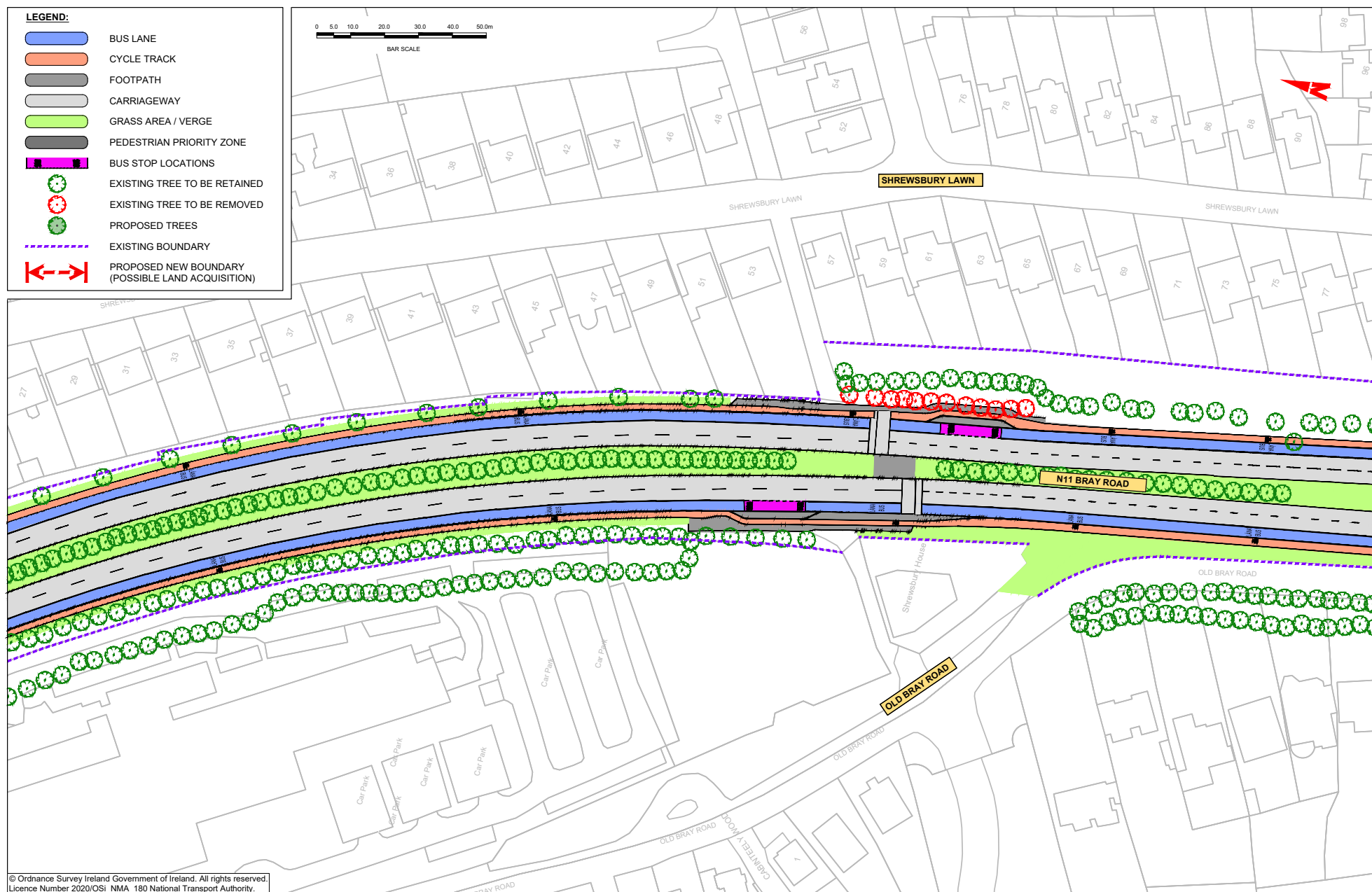




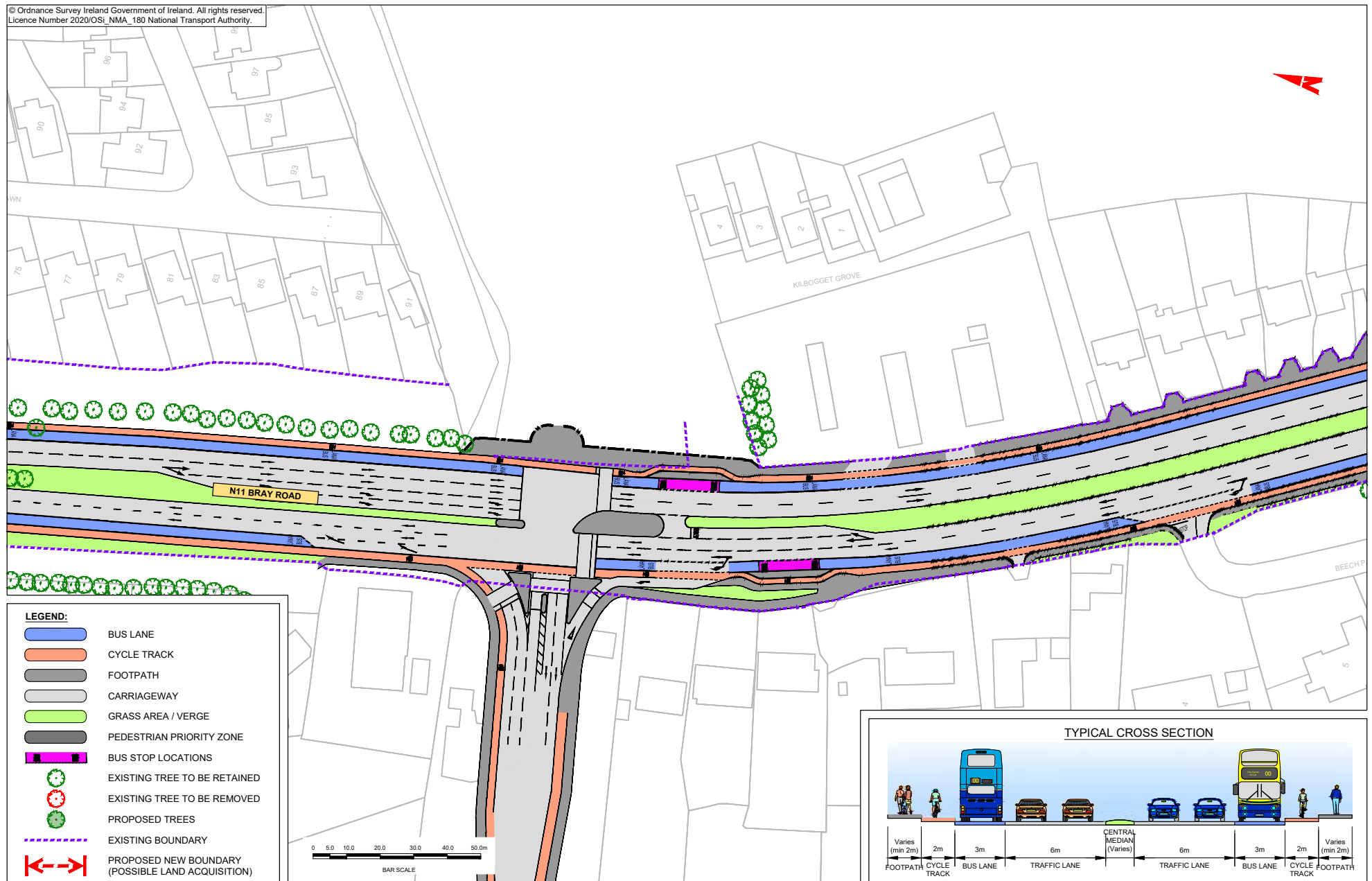
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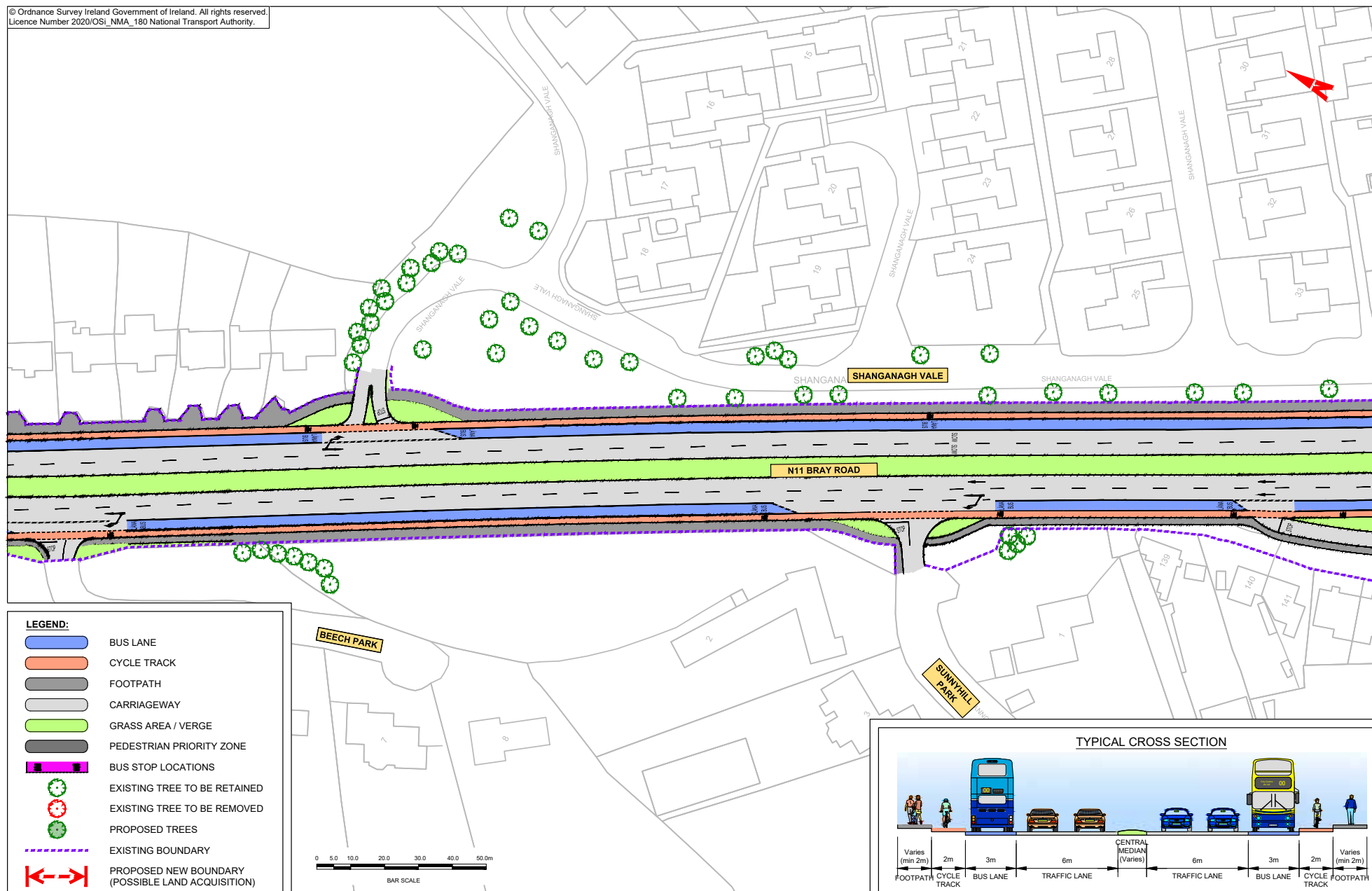


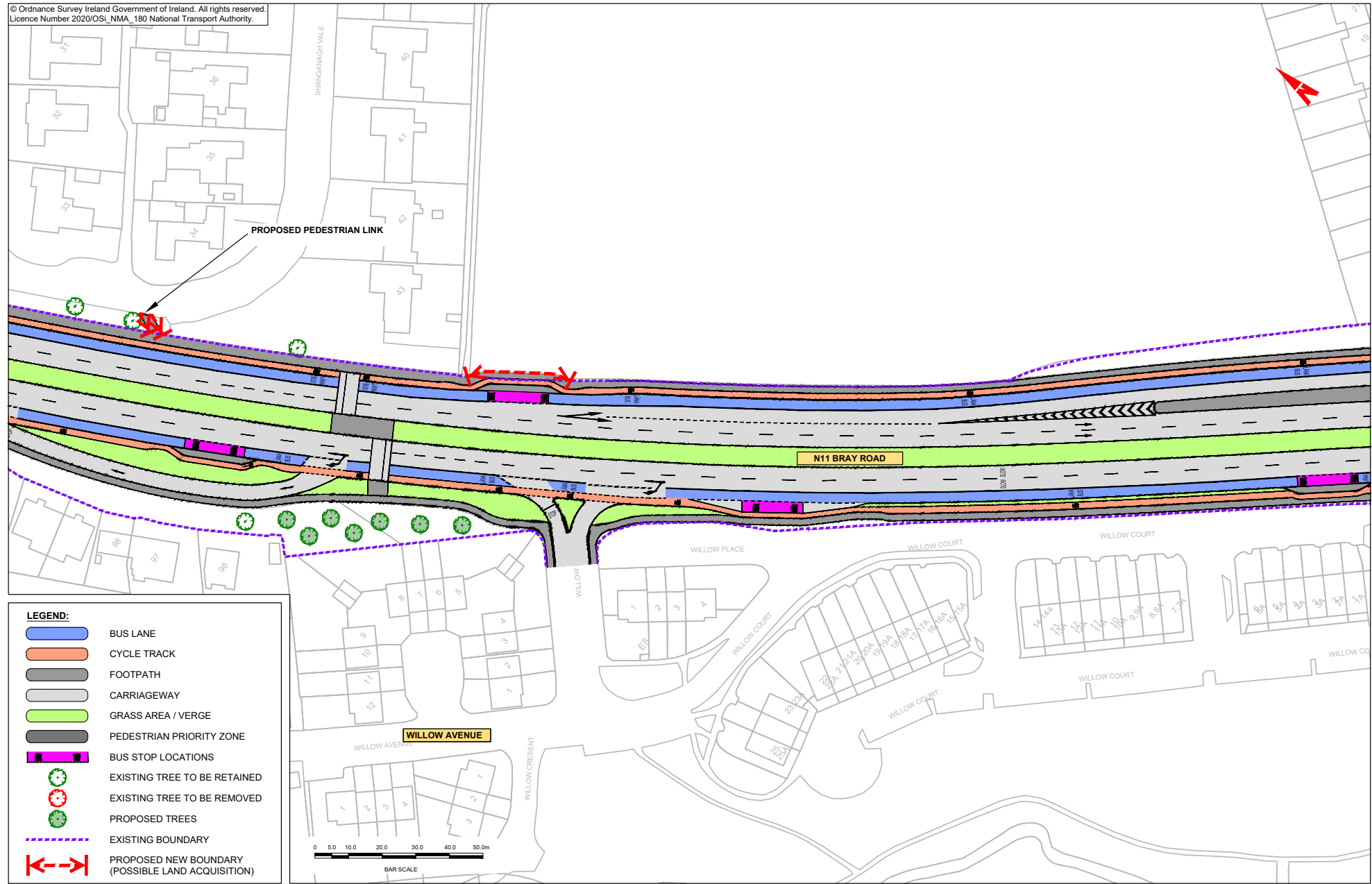


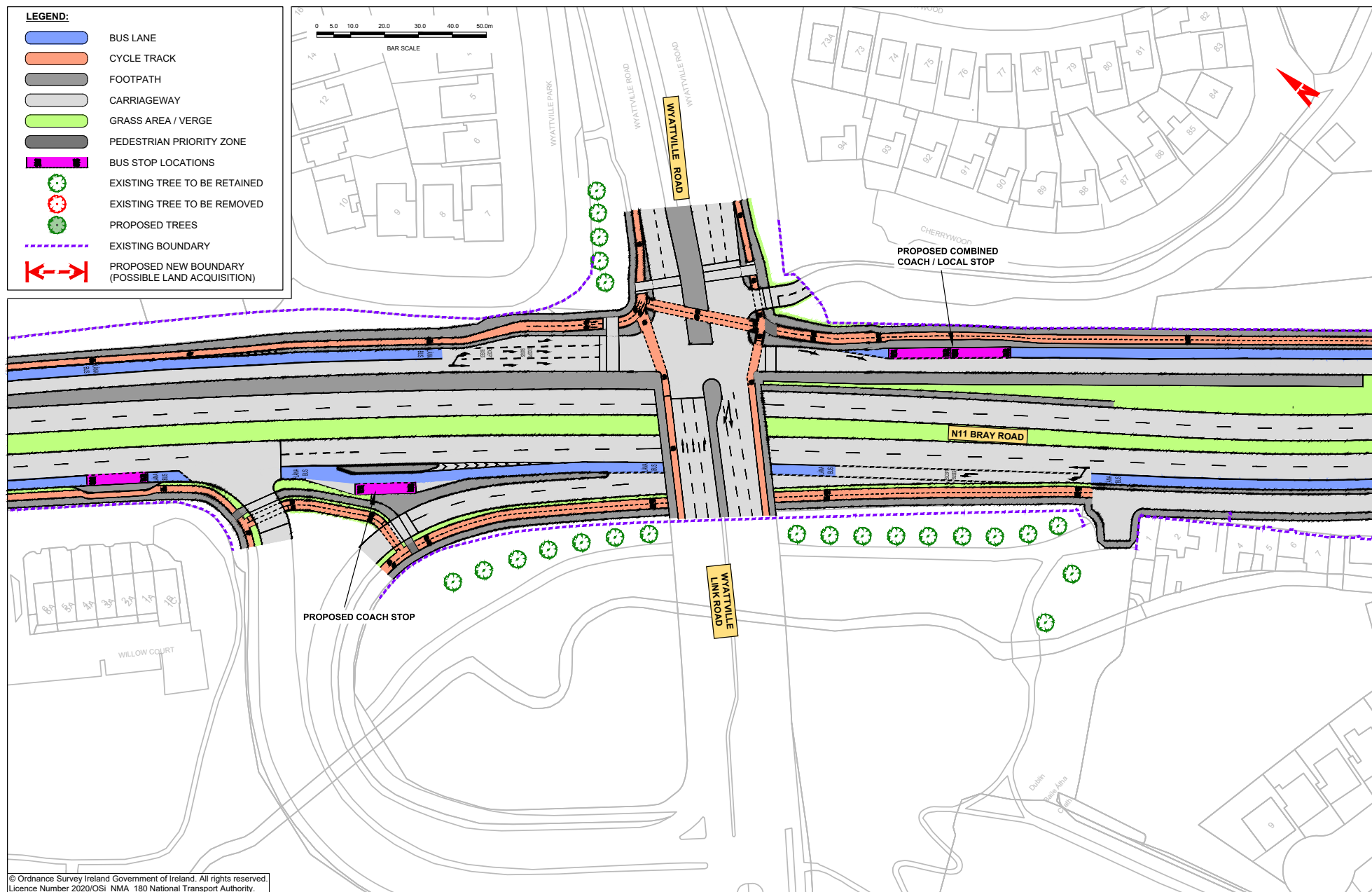
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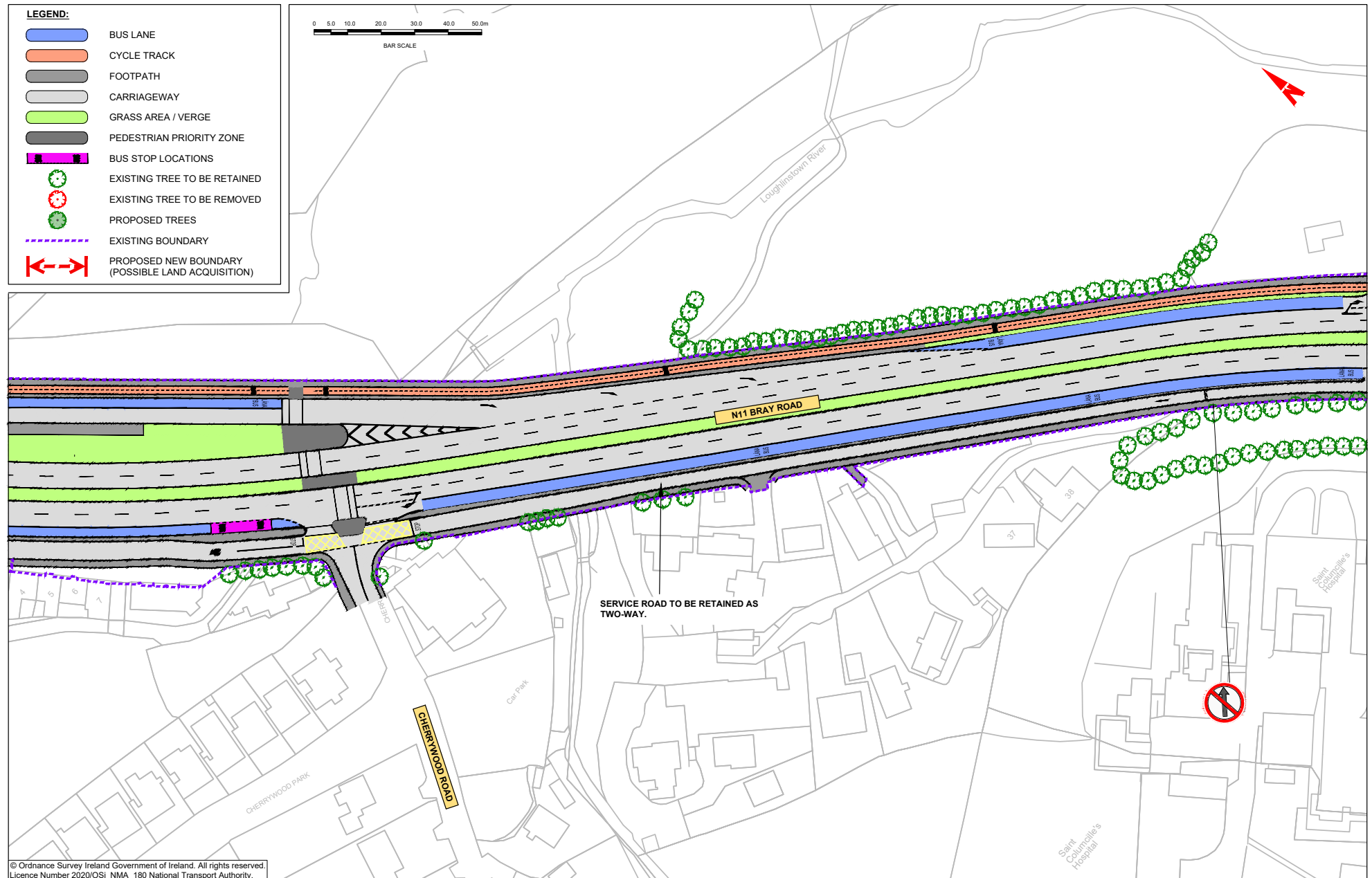


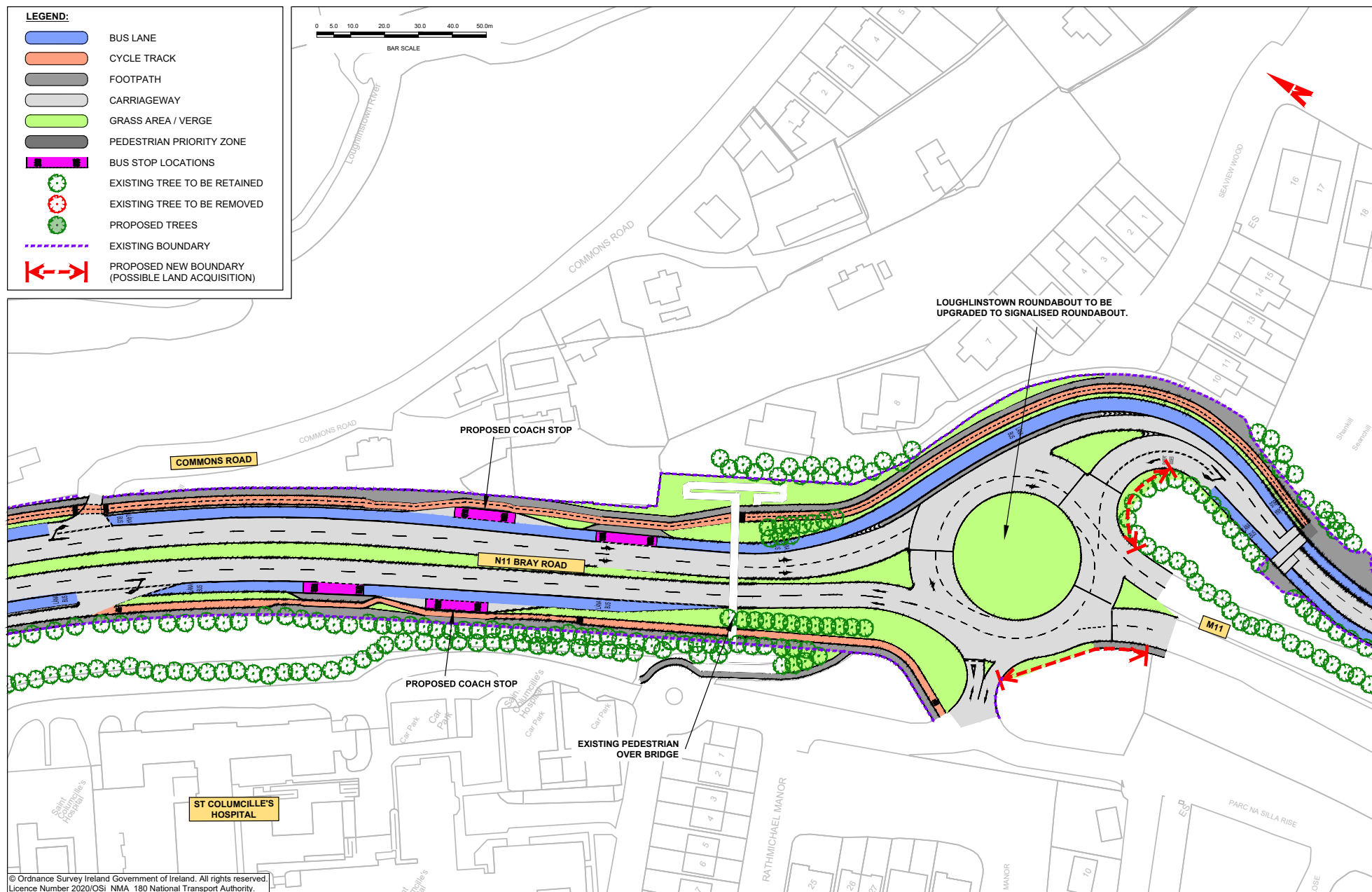
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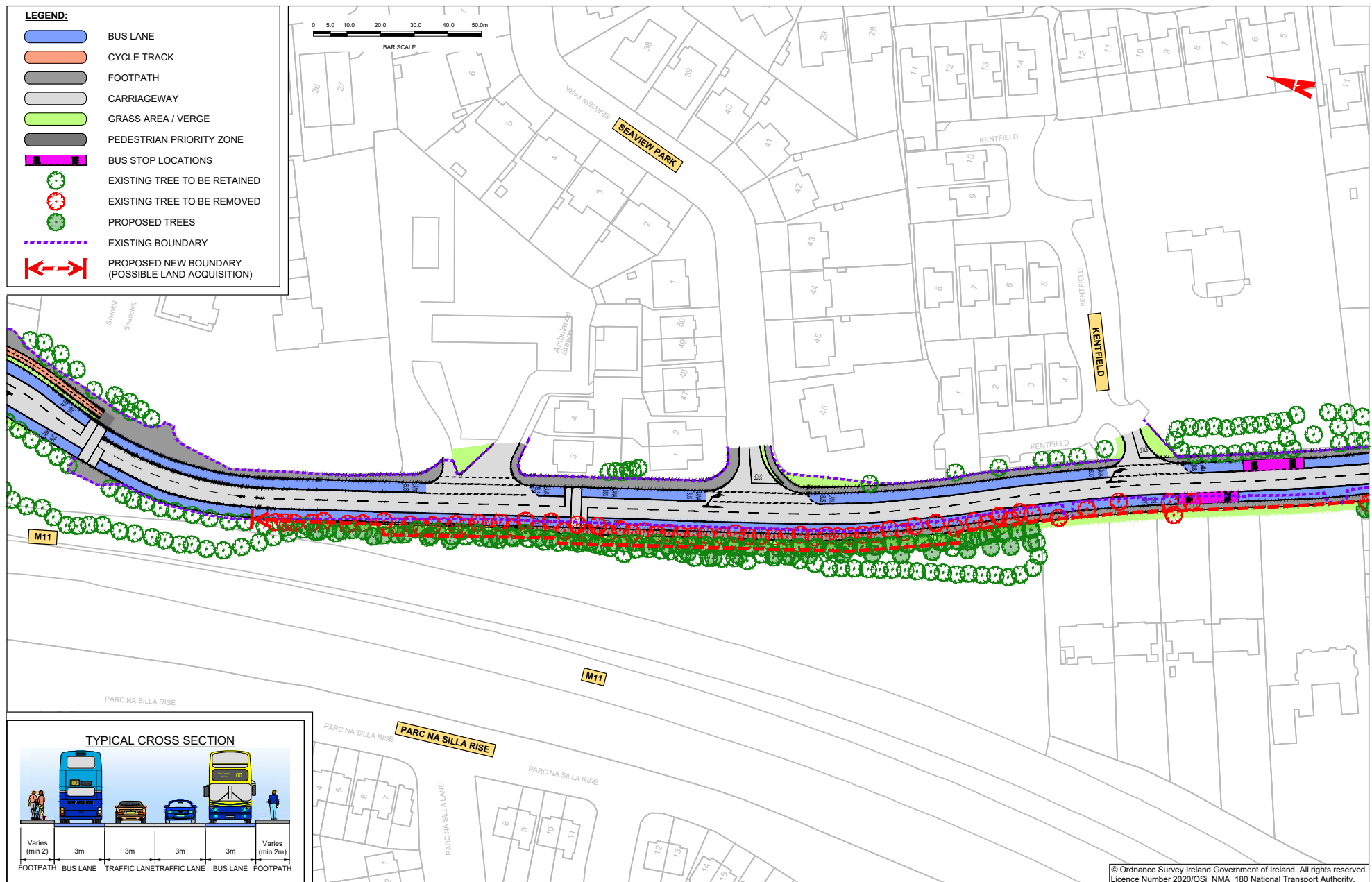


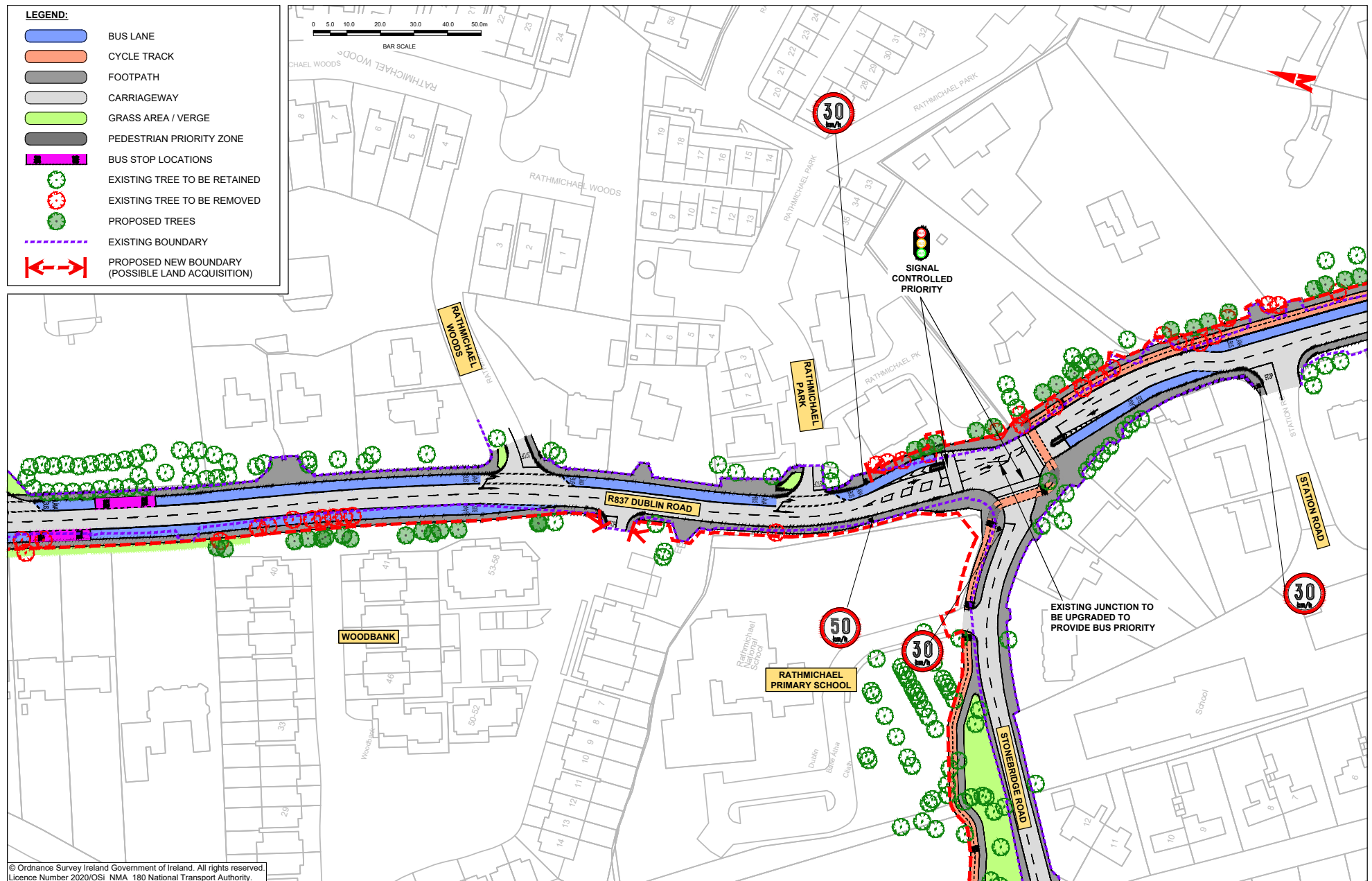




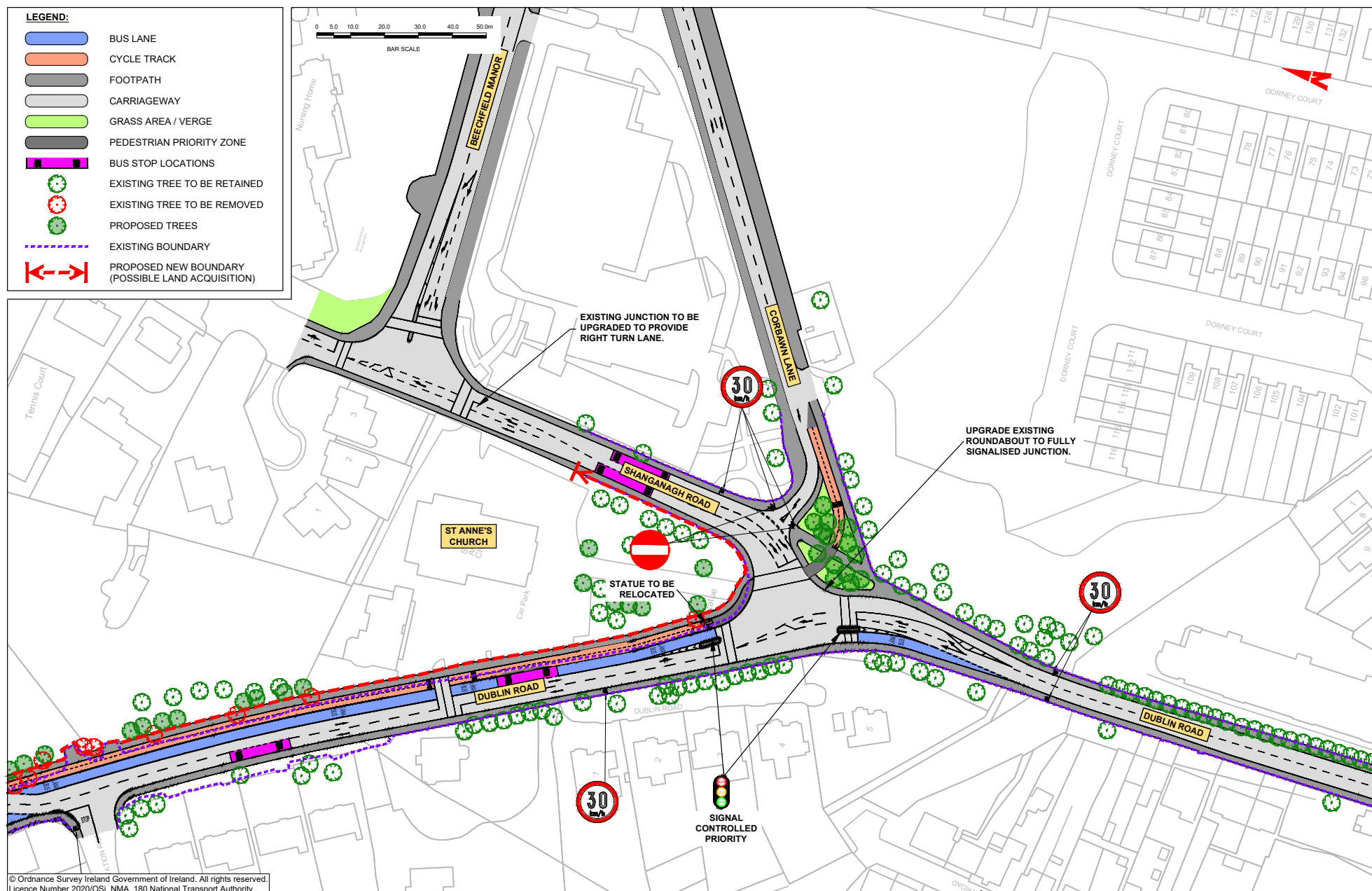


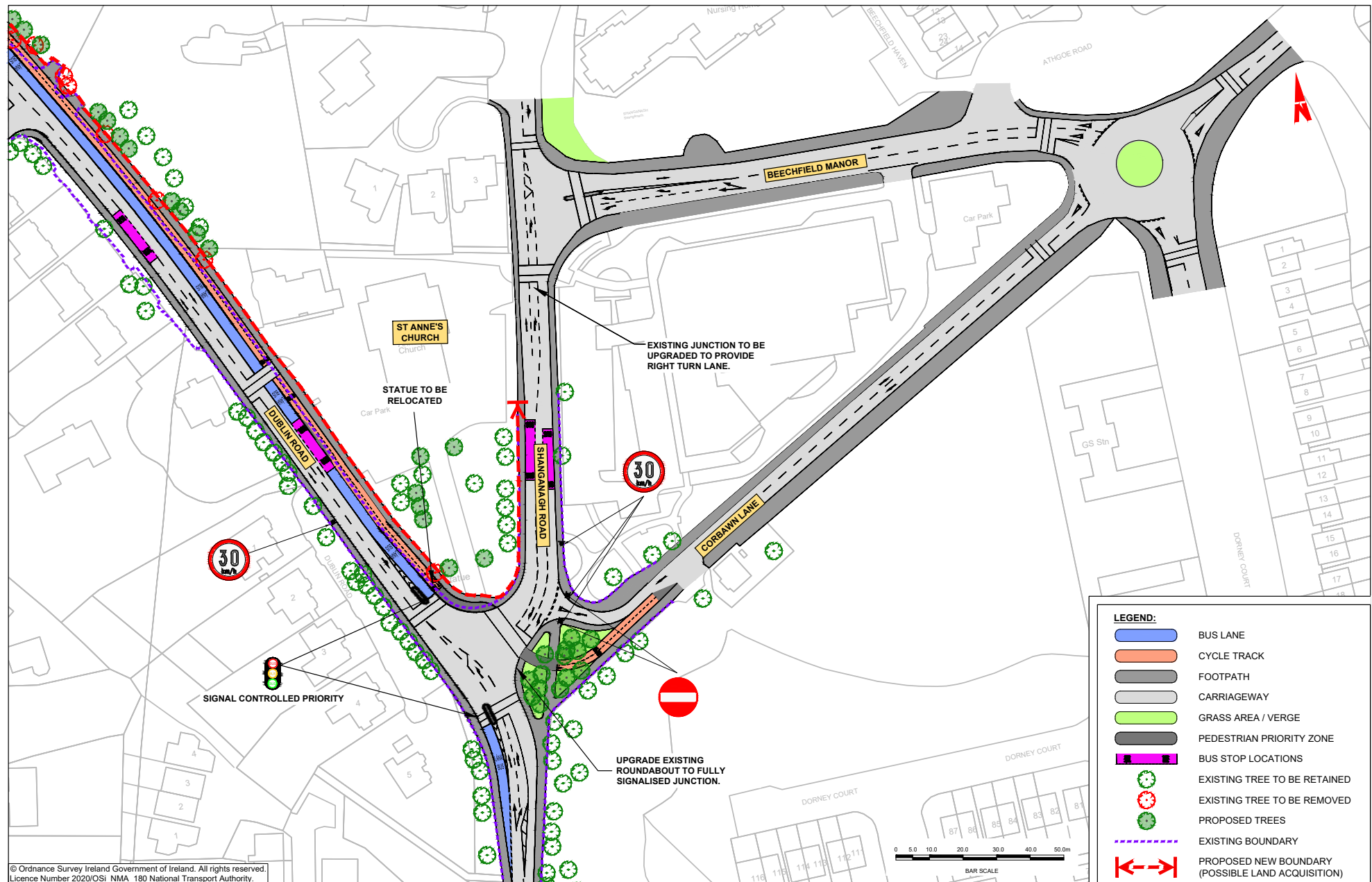




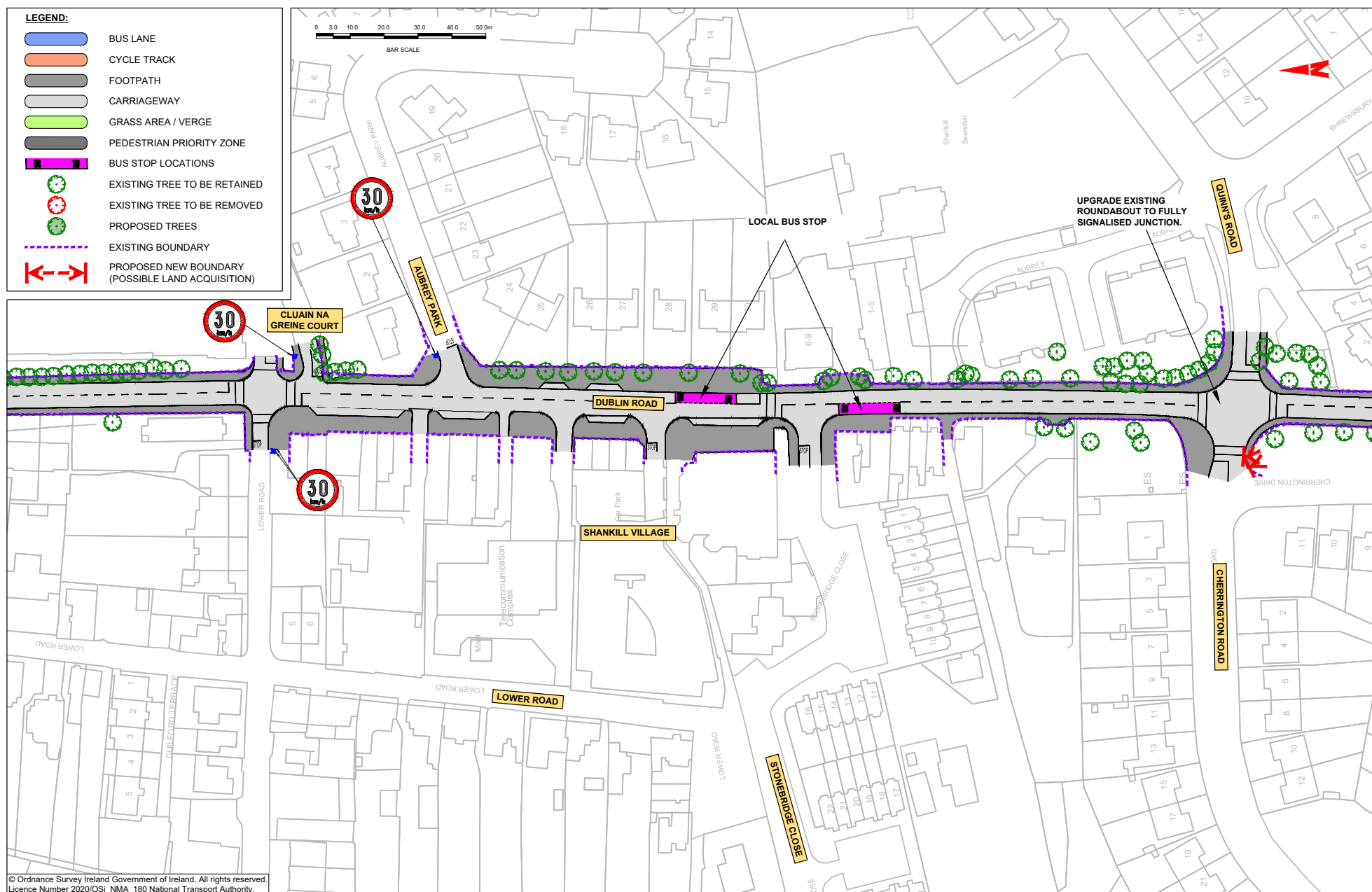




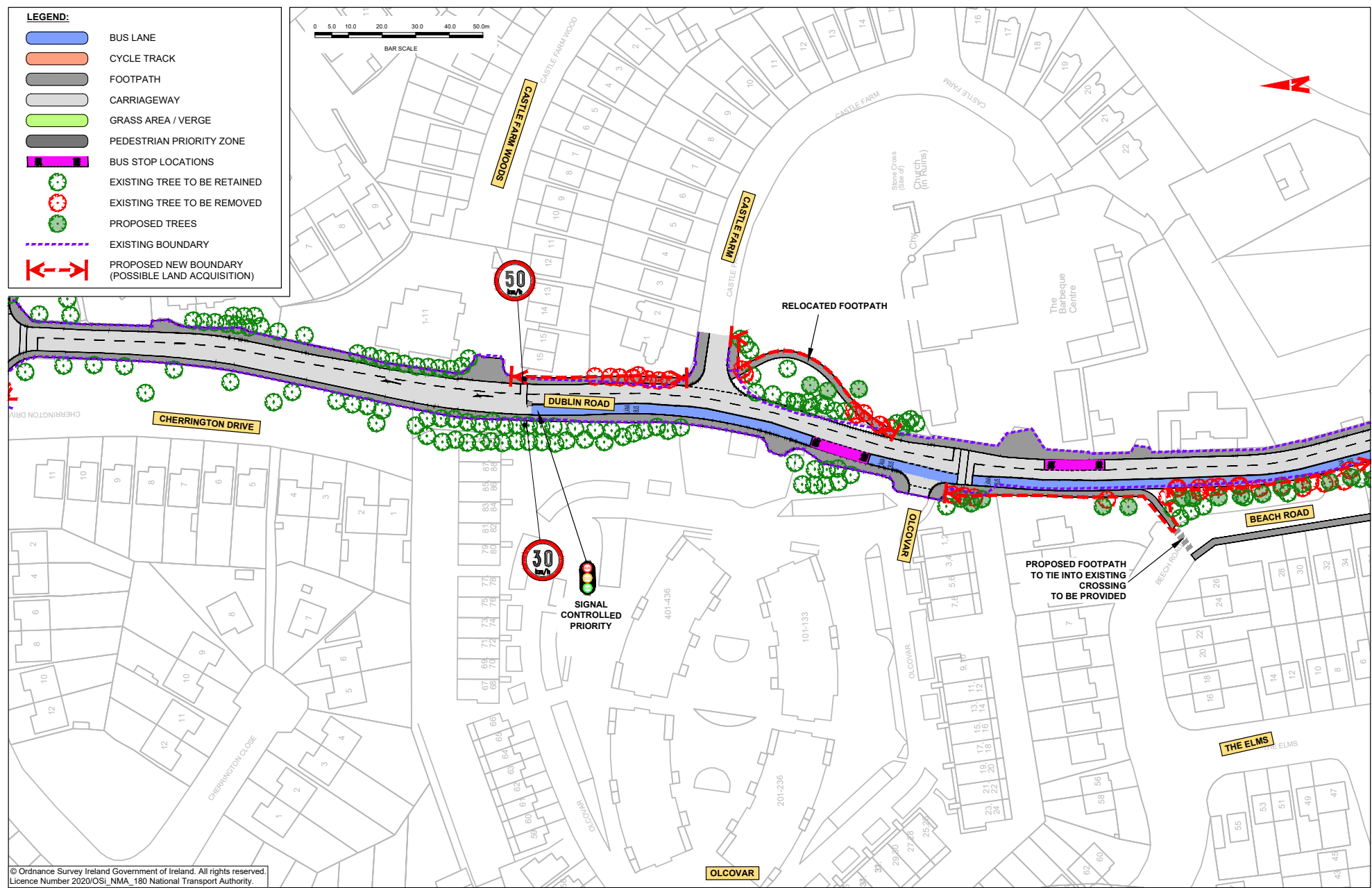


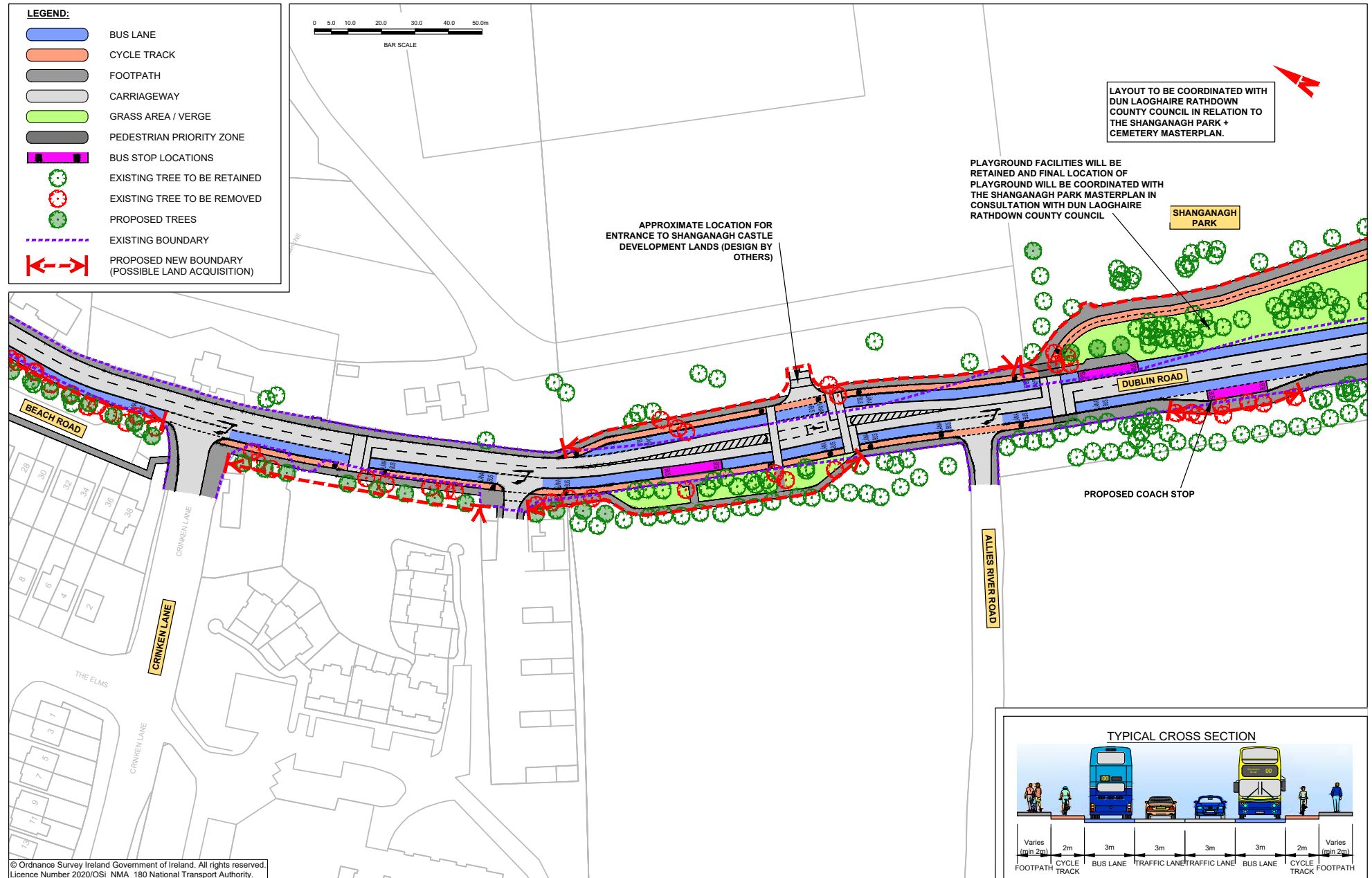


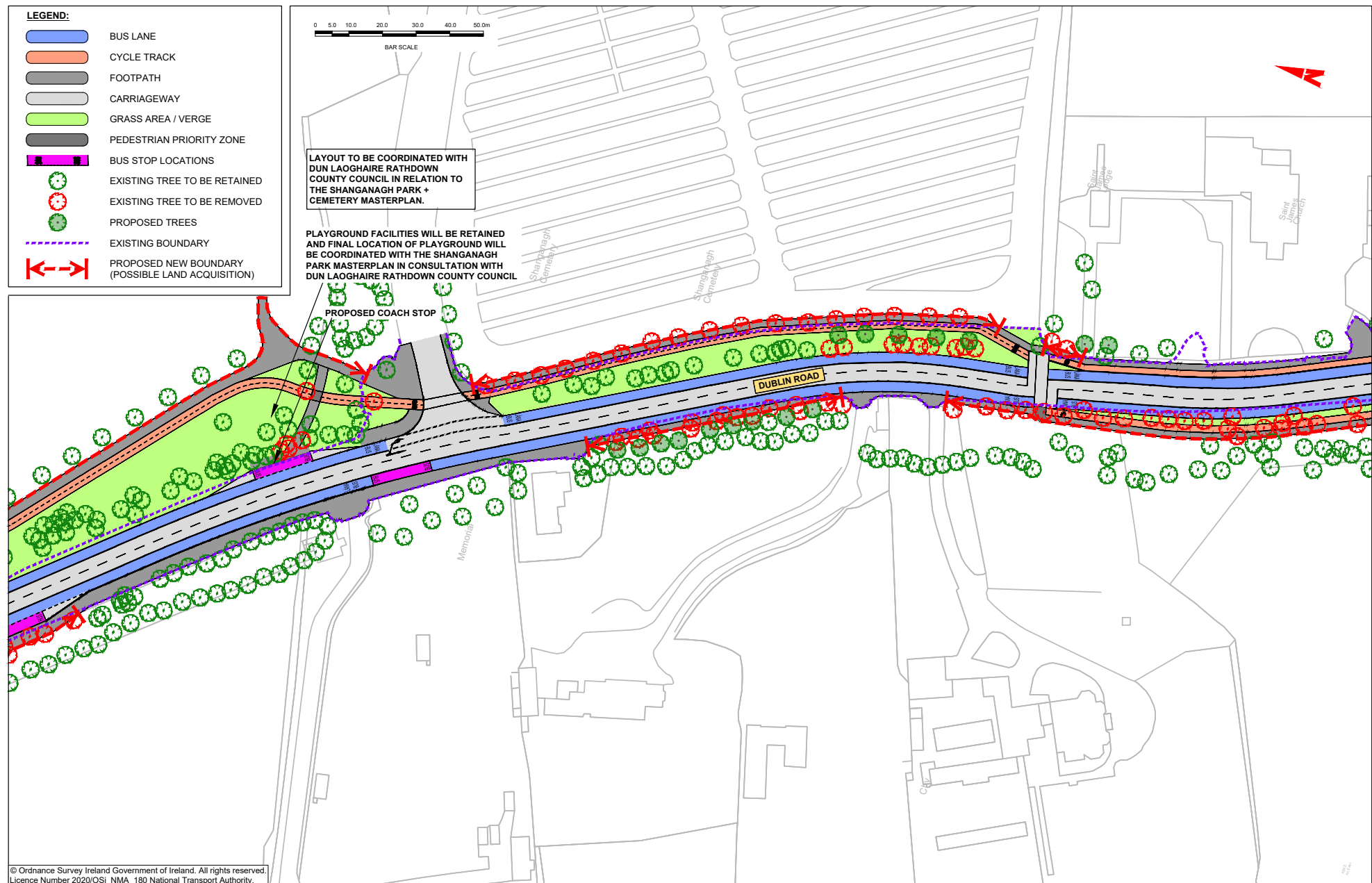




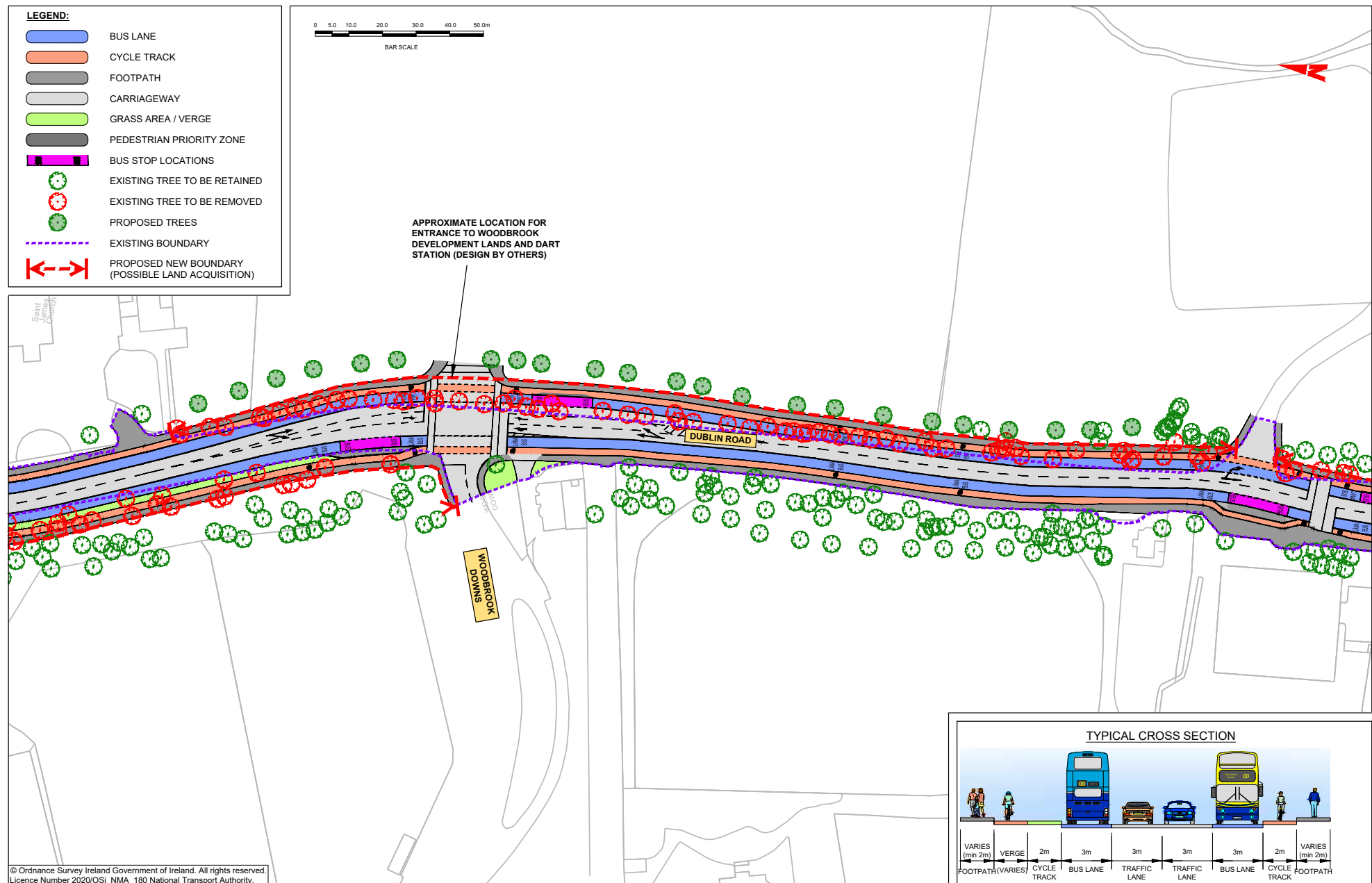


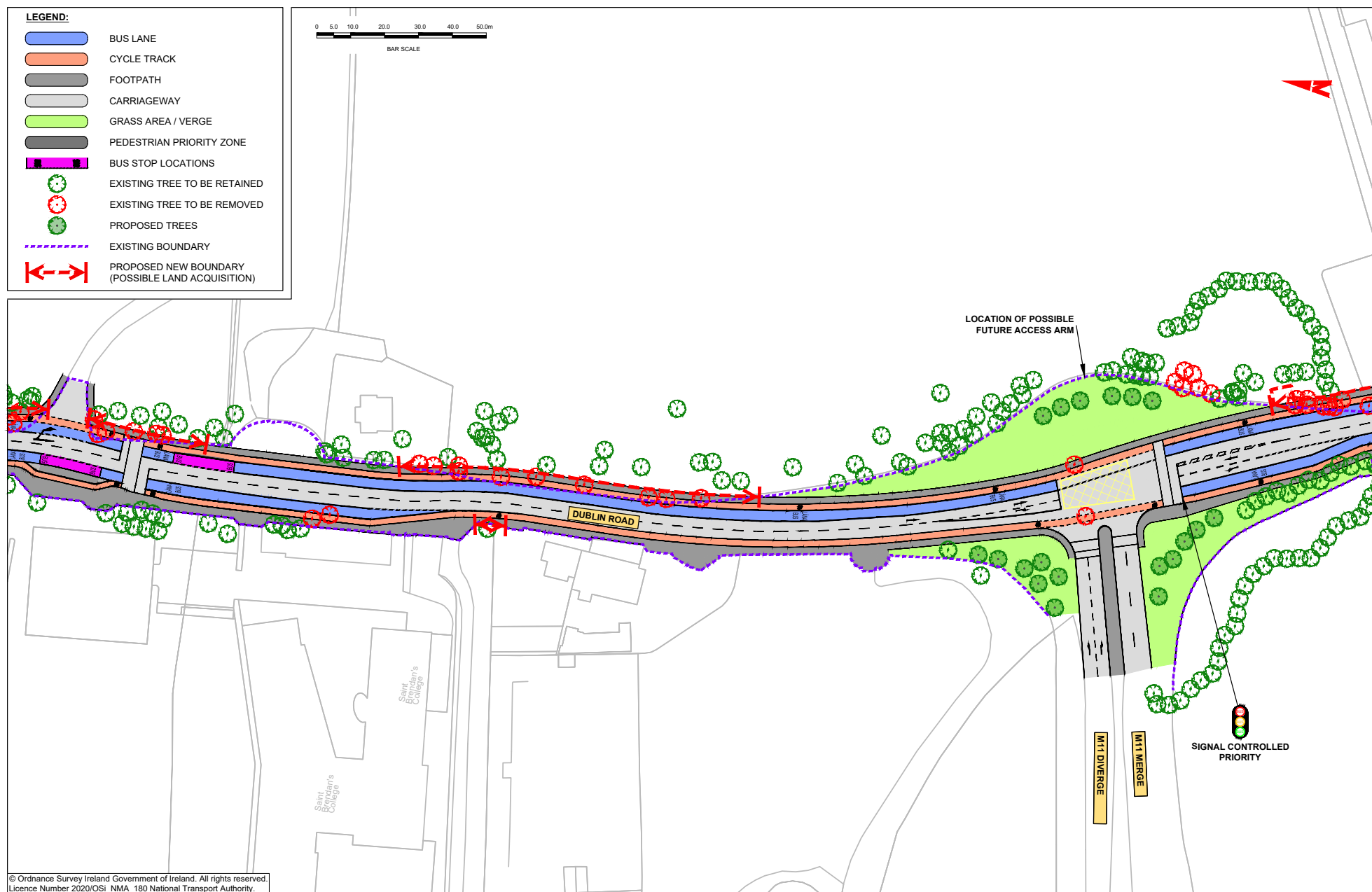


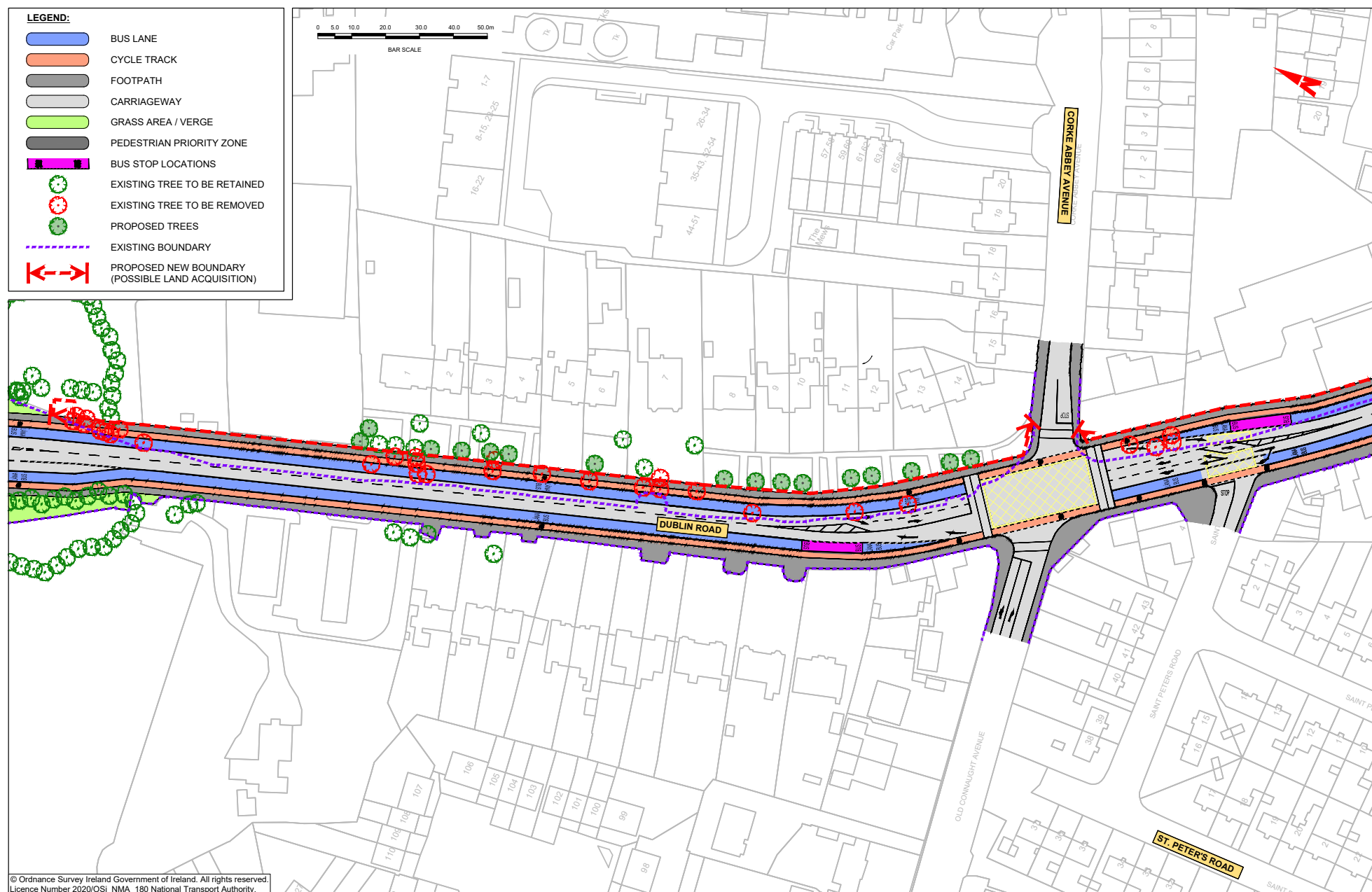


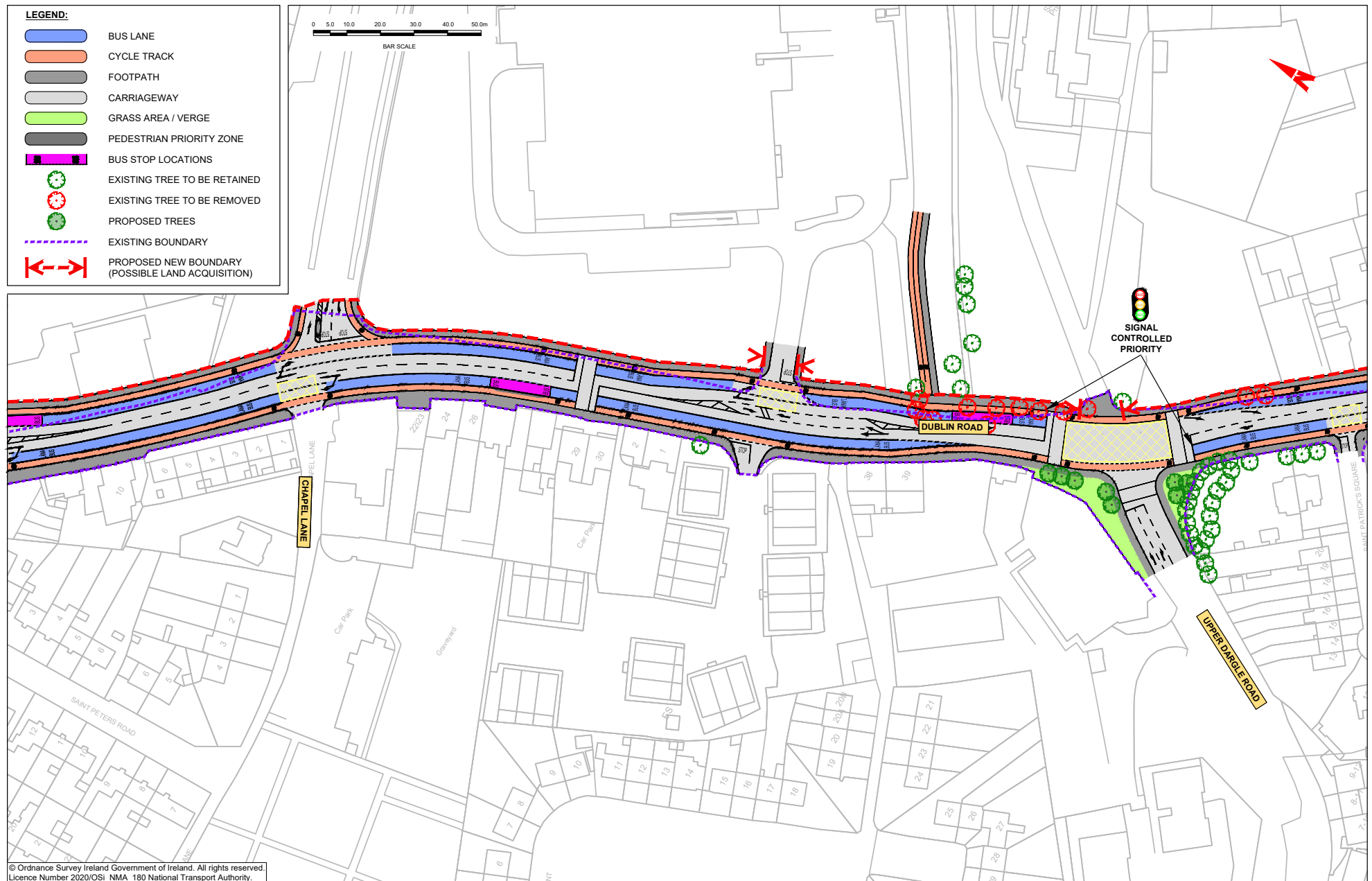


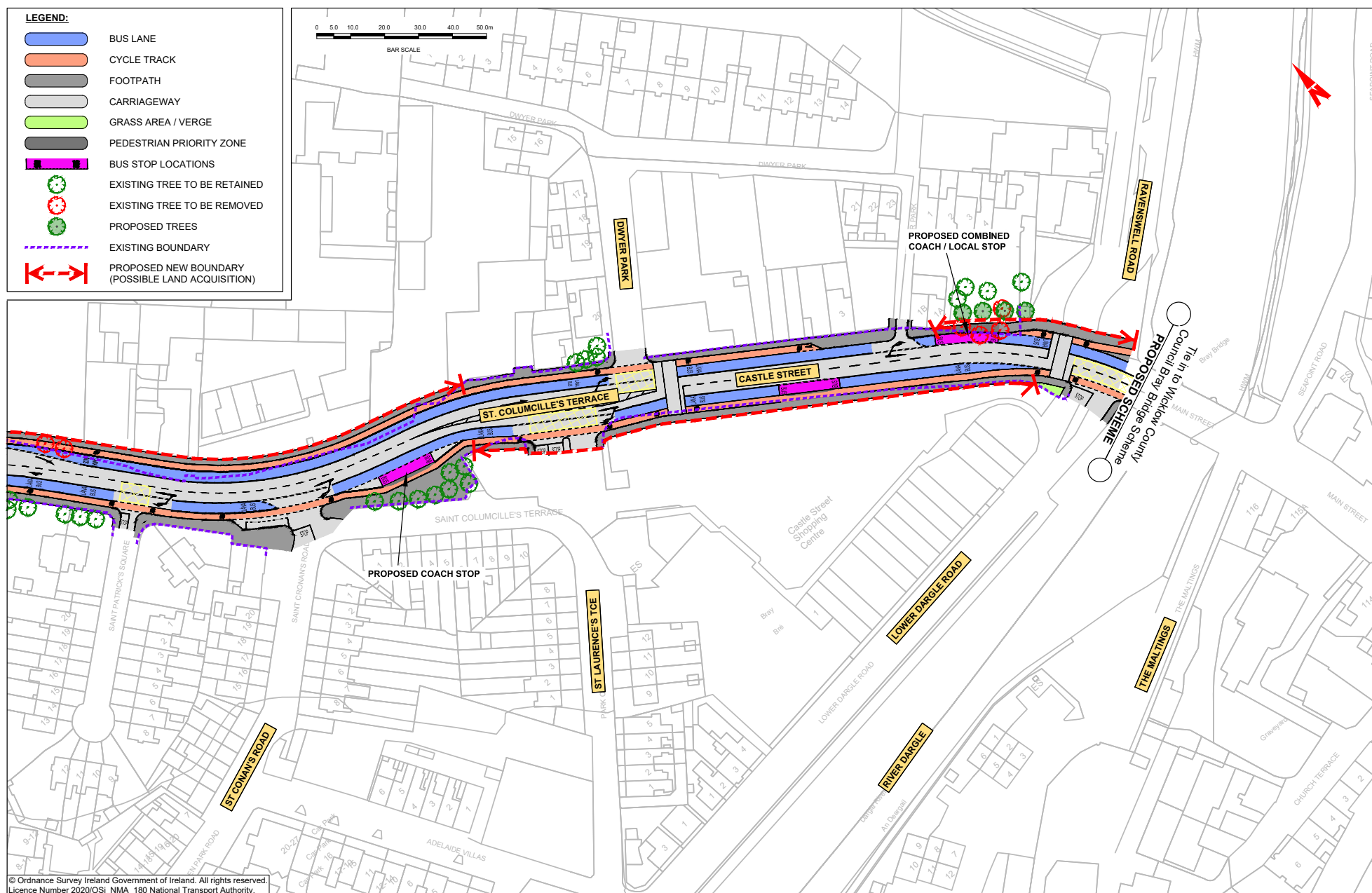
















Údarás Náisiúnta Iompair
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Harcourt Lane,
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Dublin 2.

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