Appendix 6-4: Traffic Survey Report

AECOM

Appendix 6-4: Dublin Airport Surface Access

2025 Surface Access Surveys Report

July 2026

Delivering a better world

Prepared for:

daa

Prepared by:

AECOM Ireland Limited
4th Floor
One Burlington Plaza
Burlington Road
Dublin 4
D04 RH96
Ireland

T: +353 1 696 6220
aecom.com

© 2026 AECOM Ireland Limited.

Table of Contents

1. Introduction 1
1.1 Introduction 1
1.2 Scope of Surveys 1
1.3 Structure of Document 1
2. Traffic Count Surveys 2
2.1 Automatic Traffic Counts (ATCs) 2
Airport Campus 2
2.2 Junction Turning Counts (JTCs) 5
3. ANPR Surveys 8
3.1 Overview 8
3.2 Automatic Traffic Counts (ATCs) 10
4. Kerb Area Surveys 11
4.1 ANPR Surveys of kerb areas 11
4.2 Boarding and Alighting Surveys 13
5. Active Travel Surveys 15
5.1 Campus pedestrian flows 15
5.2 Active Travel Cordon Counts 16

Figures

Figure 2.1 – Airport Internal ATC locations 3
Figure 2.2 – External ATC locations 5
Figure 2.3 – Junction Turning Counts Locations 6
Figure 3.1 – ANPR survey locations, and relevant cordons 8
Figure 4.1 – Locations of Kerbs and GTC ANPR surveys T1, GTC 11
Figure 4.2 - Locations of Kerbs and GTC ANPR surveys T2 12
Figure 4.3 – Locations of bus boarding and alighting surveys 14
Figure 5.1 – Locations of on campus pedestrian counts 15
Figure 5.2 - Locations of on campus cordon active travel counts 17

Tables

Table 2.1 - Airport ATC count location descriptions 3
Table 2.2 – External ATC count location descriptions 5
Table 2.3 – Junction Turning Counts location descriptions 6
Table 3.1 –Location descriptions for ANPR survey 9
Table 4.1 – Location descriptions for ANPR Kerb Surveys 13
Table 4.2 – Location descriptions for bus boarding and alighting surveys 14
Table 5.1 – Location descriptions for on campus pedestrian counts 16
Table 5.2 - Location descriptions for on campus cordon active travel counts 17

1. Introduction

1.1 Introduction

This document outlines the traffic surveys undertaken in Autumn 2025 to provide a 2025 baseline of existing observed conditions with regard to surface access at Dublin Airport.

1.2 Scope of Surveys

The Following surveys were undertaken:

- ATCs
- JTCs
- ANPR + Control ATC
- Kerbside Surveys
- Kerbside ANPR
- Boarding & Alighting Surveys
- Pedestrian Surveys
- Active Travel Cordon Counts

1.3 Structure of Document

Following this brief introduction, the remainder of this survey report is as follows:

- **Section 2** outlines the Automatic Traffic Counts and Junction Turning Counts
- **Section 3** outlines the ANPR survey
- **Section 4** identifies Kerbs dwell time survey locations and bus boarding and alighting survey locations
- **Section 5** outlines active travel counts.

2. Traffic Count Surveys

2.1 Automatic Traffic Counts (ATCs)

All ATCs were undertaken over a 7-day period, with data recorded for the full 24-hour period each day, reported in 15-minute intervals. The following vehicle classifications were recorded:

- Pedal Cycle;
- Motorcycle;
- Car;
- Taxi
- LGV;
- OGV1;
- OGV2; and
- Bus.

Counts at most ATC sites were undertaken between Saturday 11th October 2025 and Friday 17th October 2025. Counts at ATC 14 and 27 were undertaken between Thursday 13th Nov 2025 and Wednesday 19th November 2025. The count at ATC 25 was undertaken between Friday 31st October 2025 and Thursday 6th November 2025.

Airport Campus

The diagram overleaf (Figure 2.1**)** shows the traffic count locations in red. **Table 2.1** provides a location description of these sites.

Figure 2.1 – Airport Internal ATC locations

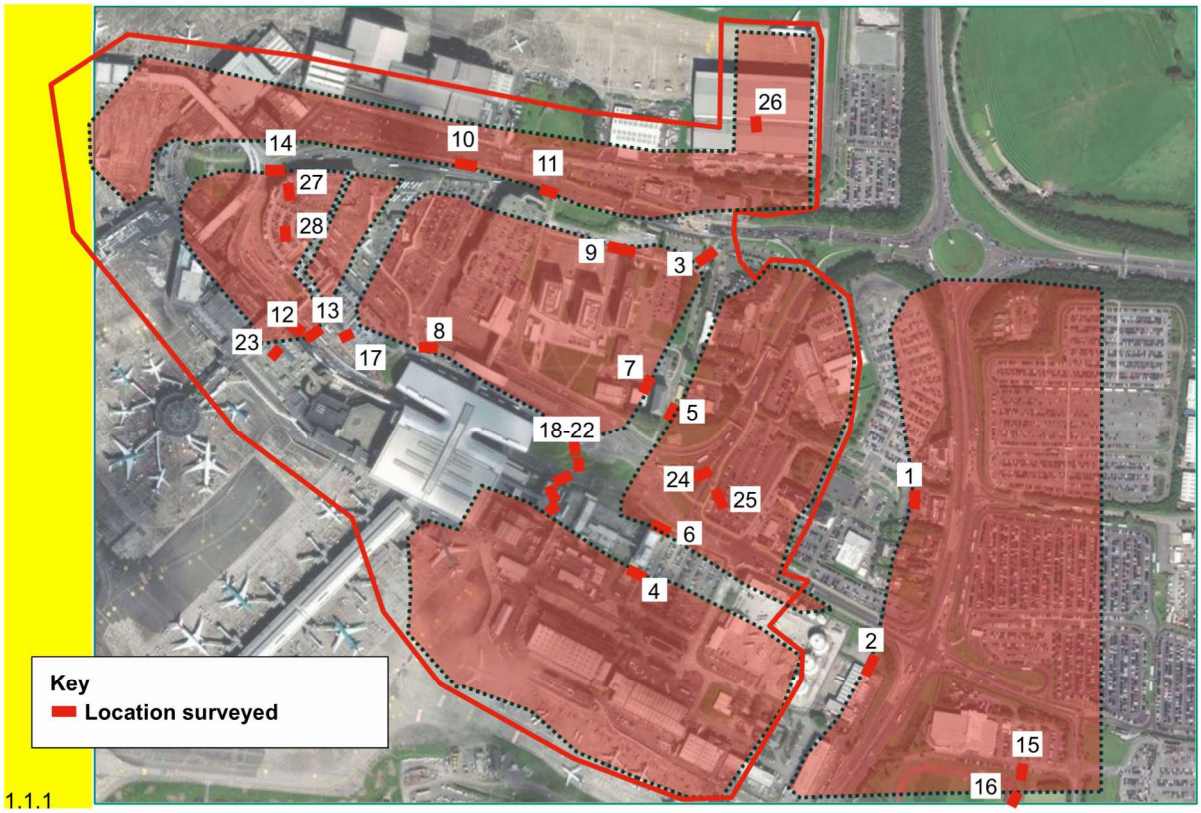


Table 2.1 - Airport ATC count location descriptions

Ref	Road	Location	Direction
ATC_01	Eastlands Rd (N)	Between R132 & Green Car Park Access	Two-Way
ATC_02	Eastlands Rd (S)	Between R132 & Entry to Express Red Car Park	Two-Way
ATC_03	Internal Recirculation Link	Recirculation link Corballis Rd N (between Airport Entry & Exit)	One-Way
ATC_04	Corballis Park	South of Corballis Rd S	Two-Way
ATC_05	Internal Road	West of access to Radison (& west of car park access)	Eastbound
ATC_06	Corballis Way	North of Corballis Rd S	Two-Way
ATC_07	DAC Access	West of Corballis N	Westbound
ATC_08	DAC Access	North of T2 Kerbs (before T2 MSCP entry)	Northbound
ATC_09	Corballis Avene	North of Maldron Hotel Exit	Northbound
ATC_10	Castlemoate Road	Access north of Corballis Rd N	Two-Way
ATC_11	Fuel Station	Access into petrol station area	Northbound
ATC_12	GTC In (T1)	North of T1 Multi-Storey Car Park Block A Entry	Northbound
ATC_13	GTC In (T2)	West of T2 Departures, North of T1 Arrivals Road	Westbound
ATC_14	GTC out	North of Coach Park	Northbound
ATC_15	Car Rentals In	South of Car rentals	Eastbound
ATC_16	Car Rentals Out	North of Car Rentals	Westbound
ATC_17	T2 Departures Kerb (Exit)	West of T2 Departures Kerb	Westbound
ATC_18_22	ATCs	Splits at entry to T2 & T1	Westbound

Ref	Road	Location	Direction
ATC_23	T1 Arrivals	Entry to T1 Arrivals Kerb (area not barrier controlled)	Westbound
ATC_24	The Kesh In	Access into Taxi waiting area	Inbound
ATC_25	The Kesh Out	Exit from Taxi waiting area	Outbound
ATC_26	Hanger 6 Car Park	Car park access	Two-Way
ATC_27	Coach Park	Access In / Out of Coach Park	Two-Way
ATC_28	Church Car Park	Car park access	Two-Way

External

The diagram below shows locations of the external automatic traffic counts.

Figure 2.2 – External ATC locations

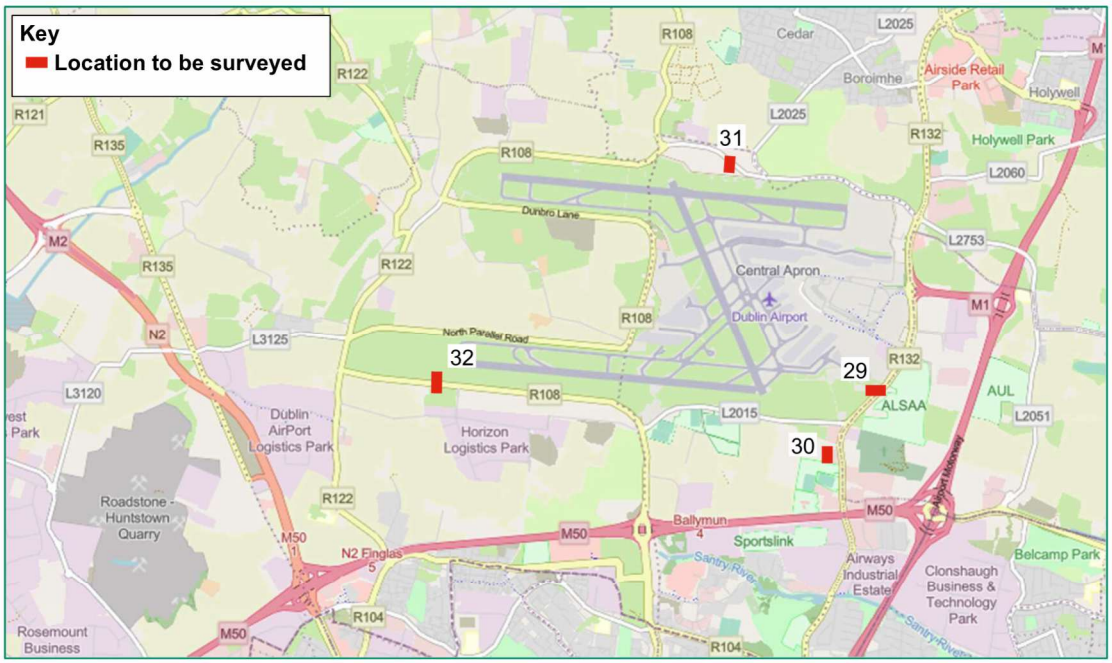


Table 2.2 – External ATC count location descriptions

Ref	Road	Location	Direction
ATC_29	R132	Between Old Airport Rd and Corballis Rd S	Two-Way
ATC_30	Park2Travel	Access to/from Park2Travel airport car parking	Two-Way
ATC_31	Naul Road	West of Forrest Road	Two-Way
ATC_32	R108 South Parallel	West of Holiday Blue Car Park	Two-Way

2.2 Junction Turning Counts (JTCs)

All JTCs were undertaken on a neutral weekday (Wednesday 15th October 2025) but it was necessary to repeat the count at Site 3 on Tuesday 21st October 2025. At all sites data was recorded during the AM Peak (04:00 – 10:00) and PM Peak (16:00 – 19:00). Data was provided in 15-minute intervals.

The following vehicle classifications were recorded:

- Pedal Cycle
- Motorcycle
- Car
- Taxi
- LGV
- OGV1
- OGV2
- Bus
- Mini Bus

The locations of junction turning counts, and location descriptions are provided in **Figure 2.3** and **Table 2.3**.

Figure 2.3 – Junction Turning Counts Locations

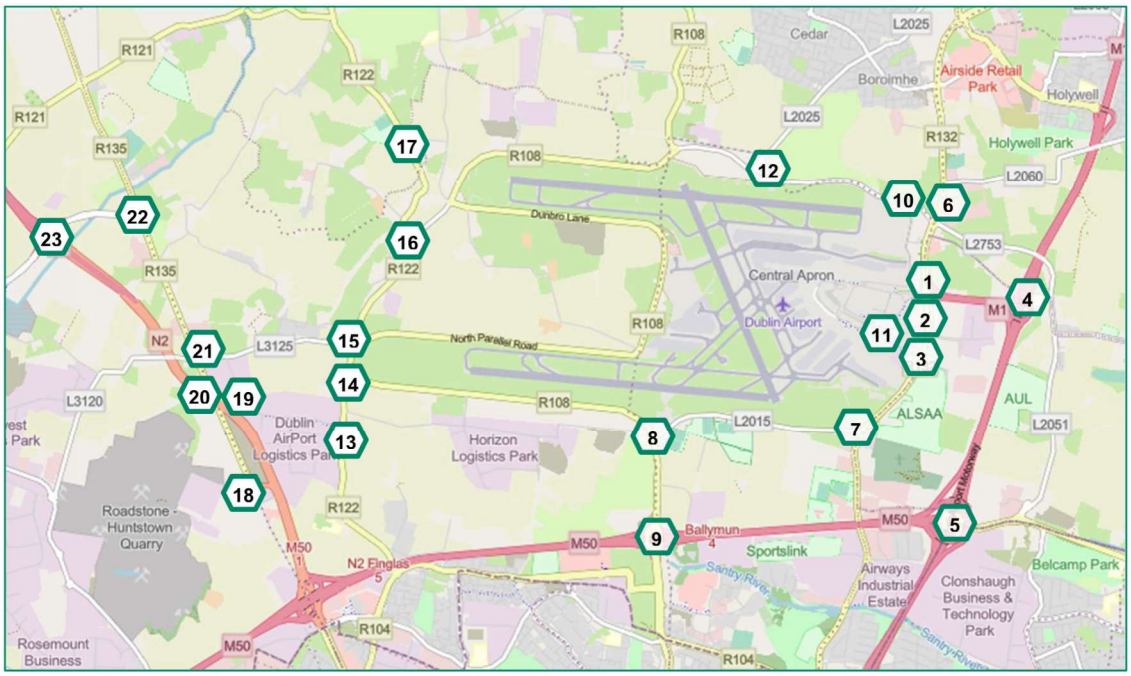


Table 2.3 – Junction Turning Counts location descriptions

Ref	Junction	Included Queues
JTC_01	Airport Roundabout (R132/M1Link/Corballis Rd N)	✓
JTC_02	R132 / Airport Business Park (Express Green Long Stay)	✓
JTC_03	Corballis Rd S / R132	✓
JTC_04	M1 J2 Airport Interchange (M1 / M1 Airport Link)	✓
JTC_05	M1 (J1) / M50 (J3) Interchange (Inc R139)	
JTC_06	Cloghran Roundabout (R132 / Naul Rd / Stockhole Lane)	
JTC_07	R132 / Old Airport Road	
JTC_08	R108 / Old Airport Road	
JTC_09	M50 J4 Ballymun Interchange (R108 / M50)	
JTC_10	Naul Rd / Castlemoate Road	
JTC_11	Corballis Rd S / Corballis Park / Corballis Way	
JTC_12	Naul Road (L3132) / Forrest Road (L2025)	
JTC_13	R122 junction with St Margarets Road (Dublin Airport Logistics Park)	
JTC_14	R108 junction with R122	
JTC_15	Roundabout L3125 Kilshane Road, R108 and R122	
JTC_16	R122 junction with L3132 (St Margarets)	
JTC_17	R122 junction with L3030 Toberburr Link Road	
JTC_18	M2 Off Slip at Coldwinters signal junction with R135	
JTC_19	M2 on-slip south junction with Elm Road	
JTC_20	R135 junction with Elm Rd/M2 on-slip	

Ref	Junction	Included Queues
JTC_21	R135 junction with L3120 and L 125 Kilshane Rd (At Kilshane Cross)	
JTC_22	Cherryhound Tyrrelstown Link Road and R135 (at Broughan)	
JTC_23	M2 Junction 2 Junction	

3. ANPR Surveys

3.1 Overview

Figure 3.1 shows the locations of ANPR counts used to form a cordon, external to the airport, and to capture key zones within the airport.

ANPR surveys undertaken collected two way movements and provided Origin / Destination movements through the cordon.

Sites numbered 1 to 18 represent the cordon entry/exit points.

Sites A to G are the key Airport origins/destinations, including:

- Airport Campus;
- Eastlands;
- Holiday Blue; and
- Park2Travel.

Additional sites H-K were included to understand the intermediate routing of vehicles between the airport and the cordon extents.

All ANPR surveys were initially undertaken on Wednesday 15th October 2025, the same neutral weekdays as the JTCs, with data recorded for a full 24-hour period. Seven sites were repeated on Wednesday 5th November 2025.

Figure 3.1 and **Table 3.1** provide details of the locations and cordons for the ANPR survey.

Figure 3.1 – ANPR survey locations, and relevant cordons

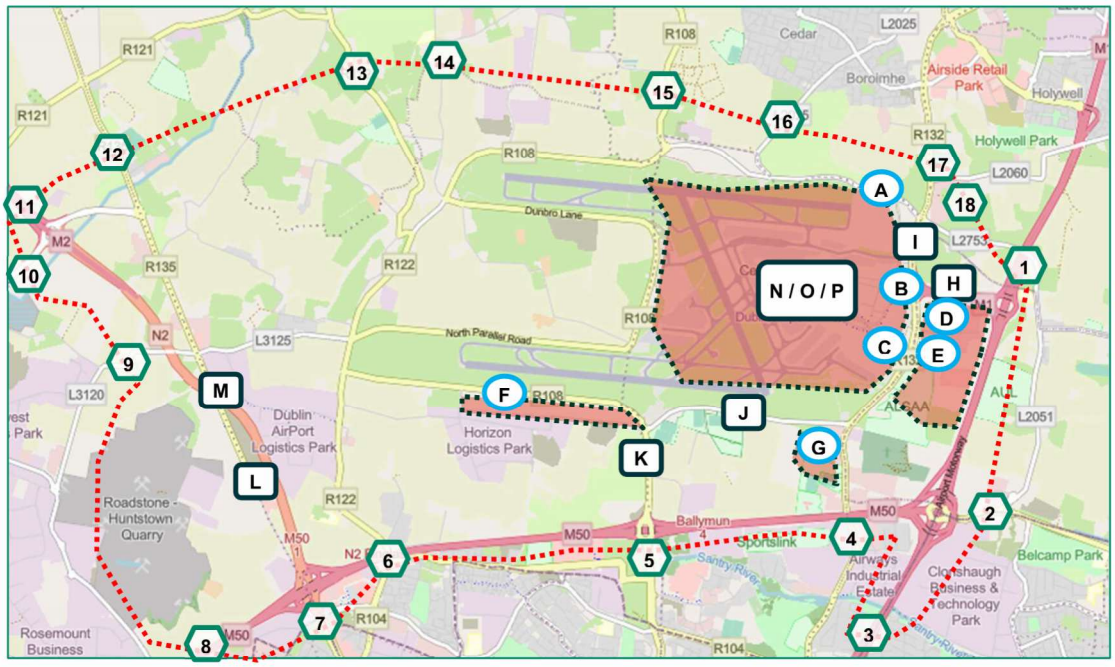


Table 3.1 –Location descriptions for ANPR survey

Ref	Road	Location	Type
ANPR_01	M1	Mainline Between J2 & J3	External
ANPR_02	R139	Between M1/M50 Interchange and R139/Clonshaugh Road Roundabout	External
ANPR_03	M50	Mainline between J2 & J3	External
ANPR_04	R132	South of M50	External
ANPR_05	R108	South of M50	External
ANPR_06	R122	North of R104 (at M50)	External
ANPR_07	R135	South of M50 J5	External
ANPR_08	M50	Mainline (between J5 and J6)	External
ANPR_09	L3120	Kilshane Rd (west of M2)	External
ANPR_10	Local Rd	West of M2 J2	External
ANPR_11	M2	Mainline (between J2 and J3)	External
ANPR_12	R135	North of Cherryhound	External
ANPR_13	R122	Between R121 and L3030 Toberburr Link Road	External
ANPR_14	Toberburr Rd	North of Kilreek Ln	External
ANPR_15	R108	North of Kilreek Ln	External
ANPR_16	Local Road	Forrest Road (north of Naul Rd, south of Cooks Rd)	External
ANPR_17	R132	North of Cloghran Roundabout	External
ANPR_18	Local Road	Stockhole Lane	External
ANPR_A	Airport Access	Castlemoate Rd	Airport Zone
ANPR_B	Airport Access	Corballis Rd N (W of Airport Roundabout)	Airport Zone
ANPR_C	Airport Access	Corballis Rd S (Between R132 & Corballis Way)	Airport Zone
ANPR_D	Eastlands	Between R132 & access to Green car park	Airport Zone
ANPR_E	Eastlands	Between R132 & access to Express Red car park	Airport Zone
ANPR_F	Long Stay Car Park	Access to/from Holiday Blue Long Stay Car Park	Airport Zone
ANPR_G	Quick Parks	Access to/from Park2Travel off-site car park	Airport Zone
ANPR_H	M1 Link	M1 Airport Link	Intermediate Routing
ANPR_I	R132	R132 between Airport & Cloghran Roundabouts	Intermediate Routing
ANPR_J	Old Airport Rd	Between R108 and R132	Intermediate Routing
ANPR_K	R108	Between Ballymun Interchange and Old Airport Road	Intermediate Routing
ANPR_L	M2	Off-Slip at Coldwinters	Intermediate Routing
ANPR_M	M2	On-Slip at Coldwinters	Intermediate Routing
ANPR_N	T2 MSCP	Passenger Short Stay - Car park entry / exit	Airport Zone
ANPR_O	Purple Car park	Staff Car Park - Car park entry / exit	Airport Zone
ANPR_P	Green Car Park	DAC Staff Car Park - Car park entry / exit	Airport Zone

Output data provided by the survey company included the matching of vehicles between sites, also including ANPR records from separately defined kerb area surveys discussed in **Section 4**.

3.2 Automatic Traffic Counts (ATCs)

To ensure the ANPR data was correctly captured, control ATCs were undertaken. These surveys were in place for the full week which included the ANPR survey day. Data for control ATCs was provided in the same format as the ATC data outlined previously.

4. Kerb Area Surveys

4.1 ANPR Surveys of kerb areas

Video Survey Counts were undertaken along the Terminal 1 and Terminal 2 kerbside areas, and in the GTC and Coach Park.

The surveys were undertaken on the same neutral weekday as the JTC and ANPR surveys (Wednesday 15th October 2025), with data recorded during the AM Peak (04:00 – 10:00) and PM Peak (15:00 – 19:00). The following information was recorded:

- Vehicle classification;
- Dwell time;
- Occupancy; and
- Vehicle distribution.

ANPR surveys captures access into each Kerb area to understand vehicle journey times and dwell times within each zone within the kerbs. In addition:

- Sites were matched between In & Out;
- Vehicles were split by type (including bus, taxi, private car, bus);
- ANPR camera data was matched with wider ANPR survey (see **Section 3**) to inform understanding of wider routings of vehicles accessing the kerbs areas.

Survey locations are shown in **Figure 4.1**, **Figure 4.2**, and locations are described in **Table 4.1**.

Figure 4.1 – Locations of Kerbs and GTC ANPR surveys T1, GTC

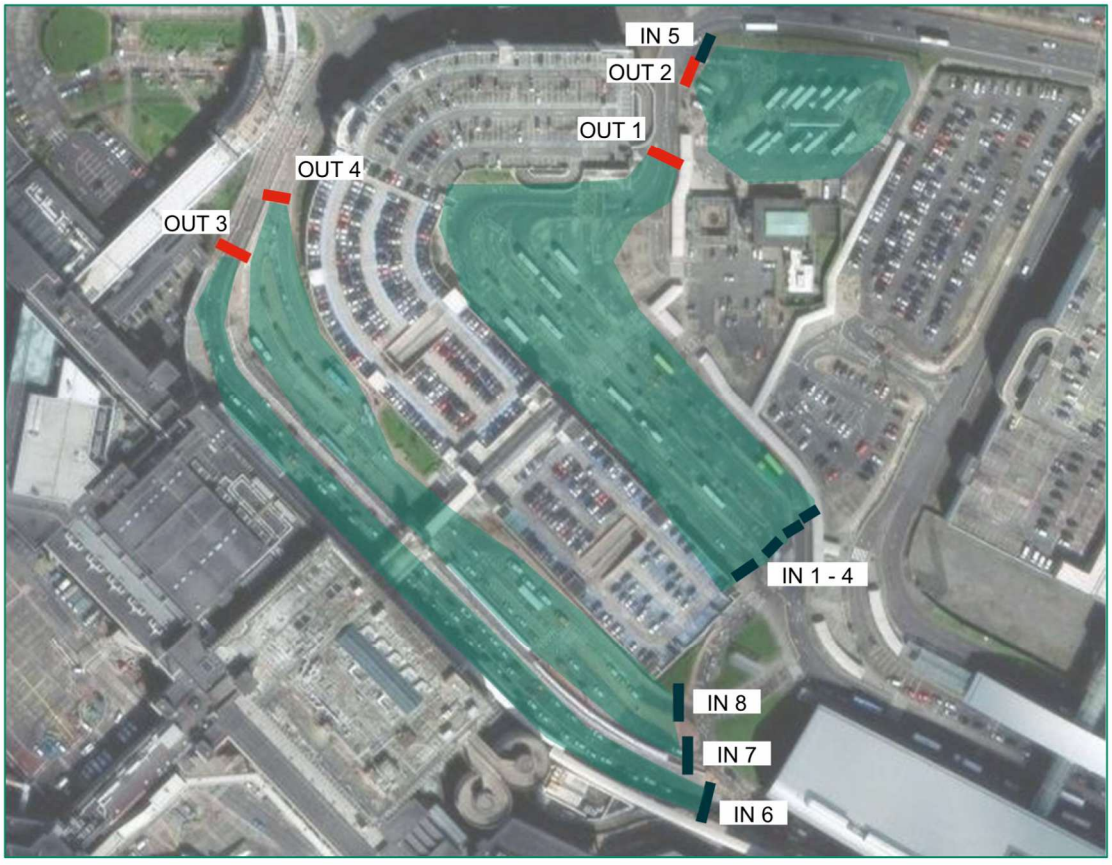


Figure 4.2 - Locations of Kerbs and GTC ANPR surveys T2

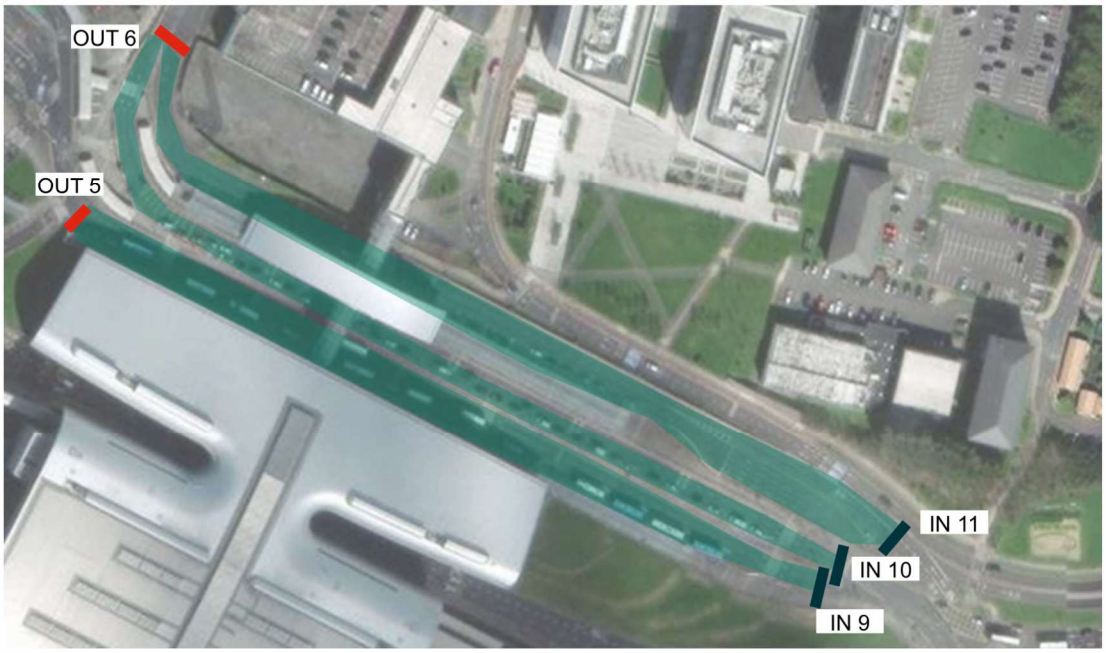


Table 4.1 – Location descriptions for ANPR Kerb Surveys

Ref	Location	In Location	Out Location
KERB_01	GTC Lane 1 (adjacent to T1 MSCP)	IN_01	OUT_01 GTC Exit Lane
KERB_02	GTC Lane 2	IN_02	
KERB_03	GTC Lane 3	IN_03	
KERB_04	GTC Lane 4 (Adjacent to T2 Surface)	IN_04	
KERB_05	Coach Park	IN_05	OUT_02
KERB_06	T1 Departure Kerb	IN_06	OUT_03
KERB_07	T1 Arrivals Kerb – Taxi	IN_07	OUT_04
KERB_08	T1 Arrivals Kerb – Car Rentals & Express Bus	IN_08	
KERB_09	T2 Departures (Bus / Authorised)	IN_09	OUT_05
KERB_10	T2 Departures – General	IN_10	OUT_06
KERB_11	T2 Arrivals Taxi & Bus	IN_11	

4.2 Boarding and Alighting Surveys

Surveys captured all bus boardings and alightings at the airport, at the following locations:

- GTC Kerbs, separately for each lane of stands (including car park shuttle services);
- Coach Park (including all buses using the facility);
- T1 bus area (arrivals kerbs)
- T1 car rentals shuttles (capturing the shuttles using T1 Arrivals Kerb);
- T2 Departures bus kerbs (capturing bus alighting);
- T2 Arrivals Kerb (capturing bus boarding); and
- Intermediate bus stops on Corballis Road North (west of Corballis Ave), and Bus stop to the west of Cloghran House (2 stops).

Surveys captured all airport busing, including:

- Local and Regional Bus Services;
- Express bus services;
- Coach services;
- Hotel Shuttle services;
- Car Park shuttle bus services; and
- Car Rentals buses (incl. minibus).

For each bus accessing these areas, the surveys captured:

- Bus stop location, Bus service number, operator, type of vehicle;
- Number of passengers alighting;
- Number of passenger boarding; and
- Bus arrival and departure time (to understand vehicle dwell time).

Survey locations are illustrated in **Figure 4.3** and described in **Table 4.2**.

Figure 4.3 – Locations of bus boarding and alighting surveys

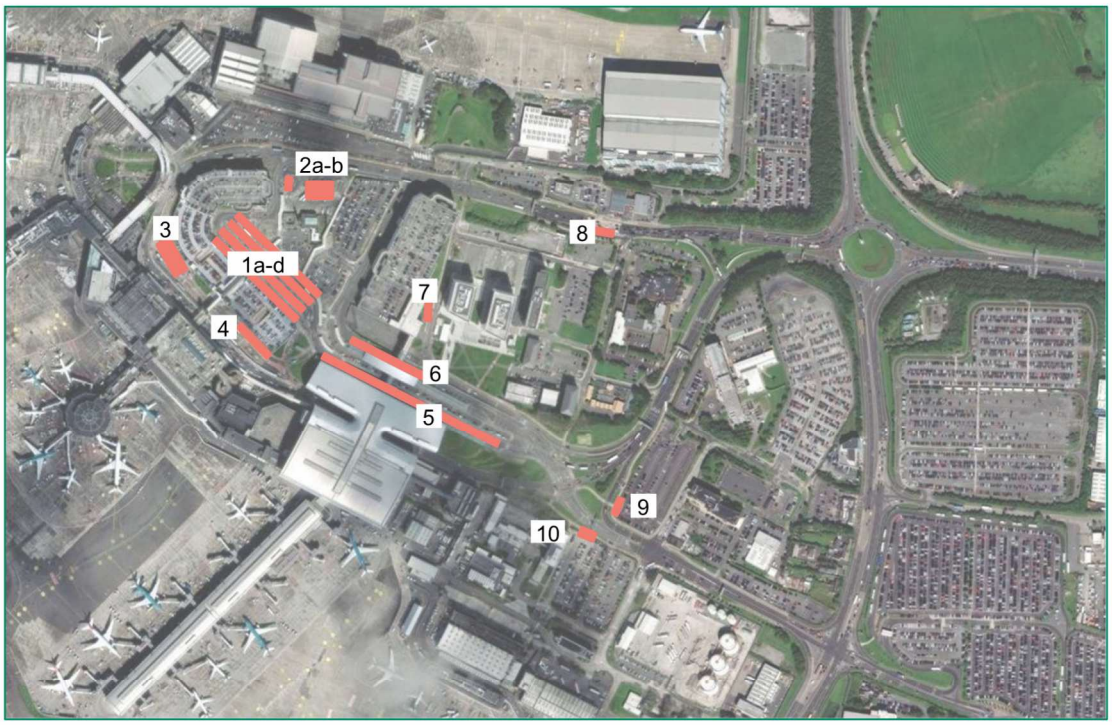


Table 4.2 – Location descriptions for bus boarding and alighting surveys

Ref	Location
BUS_01a	GTC Lane 1 (adjacent to T1 MSCP)
BUS_01b	GTC Lane 2
BUS_01c	GTC Lane 3
BUS_01d	GTC Lane 4 (adjacent to T2 Surface)
BUS_02a	Coach Park – Central Bus Stop Area
BUS_02b	Coach Park – Eastern Bus Parking Area
BUS_03	T1 Arrivals – Bus Area (two lanes)
BUS_04	T1 Arrivals – Car Rentals
BUS_05	T2 Departures Bus Area
BUS_06	T2 Arrivals Bus Area
BUS_07	T2 Car Rentals Bus Stop
BUS_08	Intermediate bus stop (north of DAC)
BUS_09	Intermediate bus stop north of Corballis Rd S
BUS_10	Intermediate bus stop (westbound) on Corballis Rd S

5. Active Travel Surveys

5.1 Campus pedestrian flows

Pedestrian surveys were undertaken at key crossing points, with total pedestrians crossing by direction recorded at each site.

The pedestrian surveys were undertaken on Wednesday 15th October 2025. Data was captured for 15-minute intervals between 04:00 and 19:00.

Figure 5.1 shows the locations of the pedestrian counts and Table 5.1 provides a description of the sites.

Figure 5.1 – Locations of on campus pedestrian counts

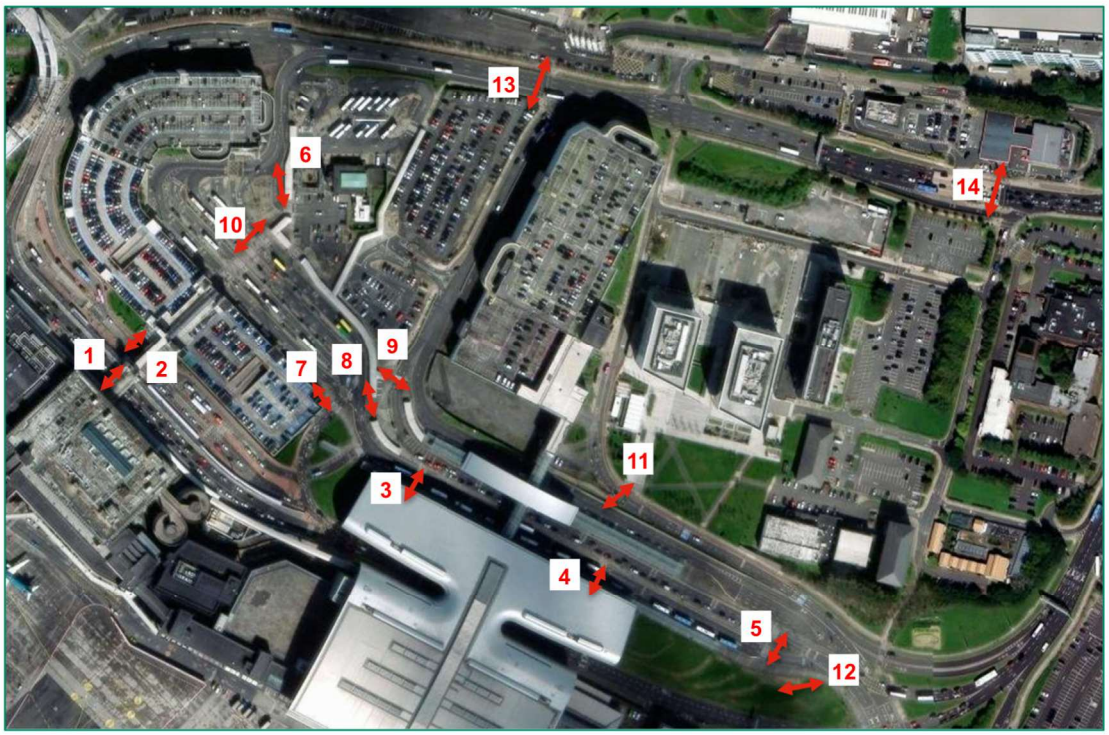


Table 5.1 – Location descriptions for on campus pedestrian counts

Ref	Location
PED_01	T1 Departures Kerbs Ped Crossing
PED_02	T1 Arrivals (Ground Floor kerb) pedestrian crossing
PED_03	T2 Departures Kerb Crossing (West)
PED_04	T2 Departures Crossing (Middle)
PED_05	T2 Departures Crossing (East)
PED_06	Walkway – Coach Park
PED_07	GTC Walk Route T1MSCP
PED_08	GTC Walk Route T2 Dep
PED_09	GTC Walk Route T2 Arr
PED_10	GTC crossing (lane closest to Church)
PED_11	DAC Crossing
PED_12	Walking route east of T2
PED_13	Corballis Rd N crossing 1 (north of T2 surface)
PED_14	Corballis Rd N crossing 2 (at petrol station)

5.2 Active Travel Cordon Counts

Active travel cordon counts were undertaken to capture the number of cyclists accessing the campus. These surveys counted cyclists accessing the campus by road, footways, and dedicated cycle track.

These counts were undertaken on Wednesday 15th October 2025 between 04:00 and 19:00 and captured movements in 15-minute intervals.

Counts were disaggregated into cyclists who were walking and cyclists who were cycling when captured. The counts were also disaggregated by direction.

Figure 5.2 and **Table 5.2** provide the locations for the active travel cordon count surveys.

Figure 5.2 - Locations of on campus cordon active travel counts

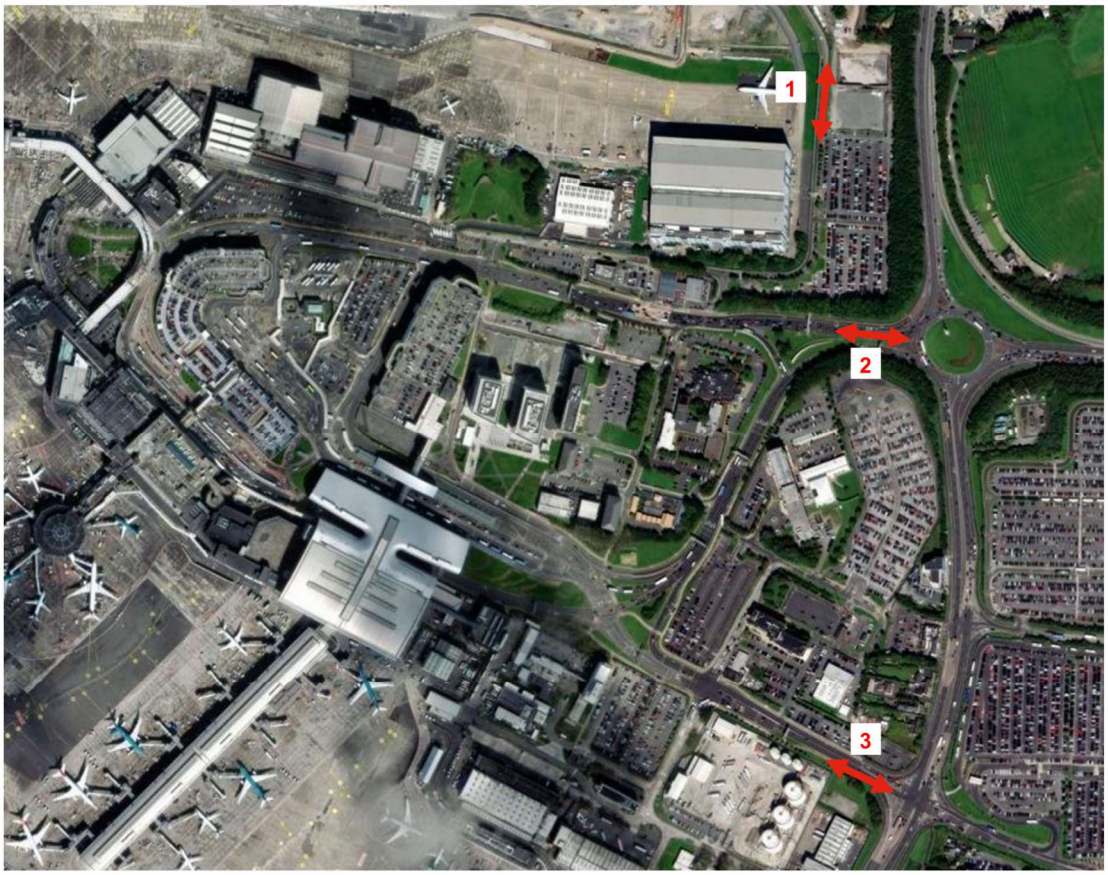


Table 5.2 - Location descriptions for on campus cordon active travel counts

Ref	Location
ACT_01	Castlemoate Road (North of Hanger 6 Car Park)
ACT_02	Corballis Road North (west of Airport Roundabout & R132)
ACT_03	Corballis Road South (west of R132)

aecom.com