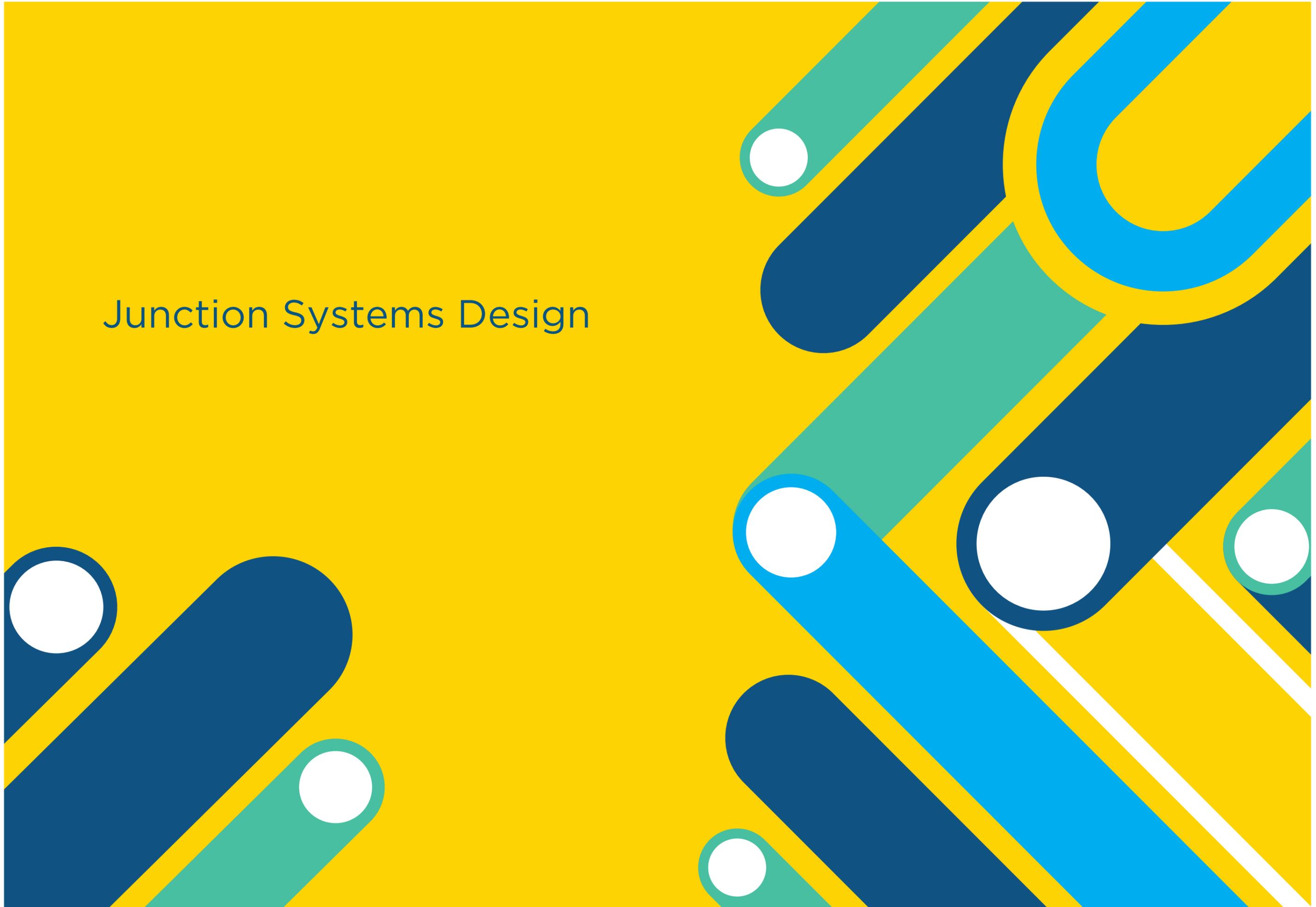


# Junction Systems Design





# BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

## LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME

### JUNCTION SYSTEMS DESIGN

#### DRAWING SERIES NUMBER(S)

BCIDA-ACM-TSM\_IX-0006\_XX\_00-DR-TR-0001

BCIDA-ACM-TSM\_KP-0006\_XX\_00-DR-TR-0001

- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0001
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0002
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0003
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0004
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0005
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0006
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0007
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0008
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0009
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0010
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0011
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0012
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0013
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0014
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0015
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0016
- BCIDA-ACM-TSM\_SJ-0006\_XX\_00-DR-TR-0017

#### DRAWING SERIES DESCRIPTION

LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. COVER SHEET

LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. KEY PLAN

- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R136 BALLYOWEN ROAD / R835 LUCAN ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R136 BALLYOWEN ROAD / N4 JUNCTION 3
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R136 BALLYOWEN ROAD / HERMITAGE ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. N4 JUNCTION 2
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 PALMERSTOWN BYPASS / KENNELSFORT ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. OLD LUCAN ROAD / KENNELSFORT ROAD LOWER
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 PALMERSTOWN BYPASS / THE OVAL
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 CHAPELIZOD BYPASS / R112 KYLEMORE ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 CHAPELIZOD BYPASS / R148 CON COLBERT ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 CON COLBERT ROAD / R839 MEMORIAL ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. CON COLBERT ROAD / R111 SOUTH CIRCULAR ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 ST. JOHN'S ROAD WEST / R111 SOUTH CIRCULAR ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 ST. JOHN'S ROAD WEST / HSQ
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 ST. JOHN'S ROAD WEST / MILITARY ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. ST. JOHN'S ROAD WEST / HEUSTON STATION
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. ST. JOHN'S ROAD WEST / VICTORIA QUAY
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R112 LUCAN ROAD

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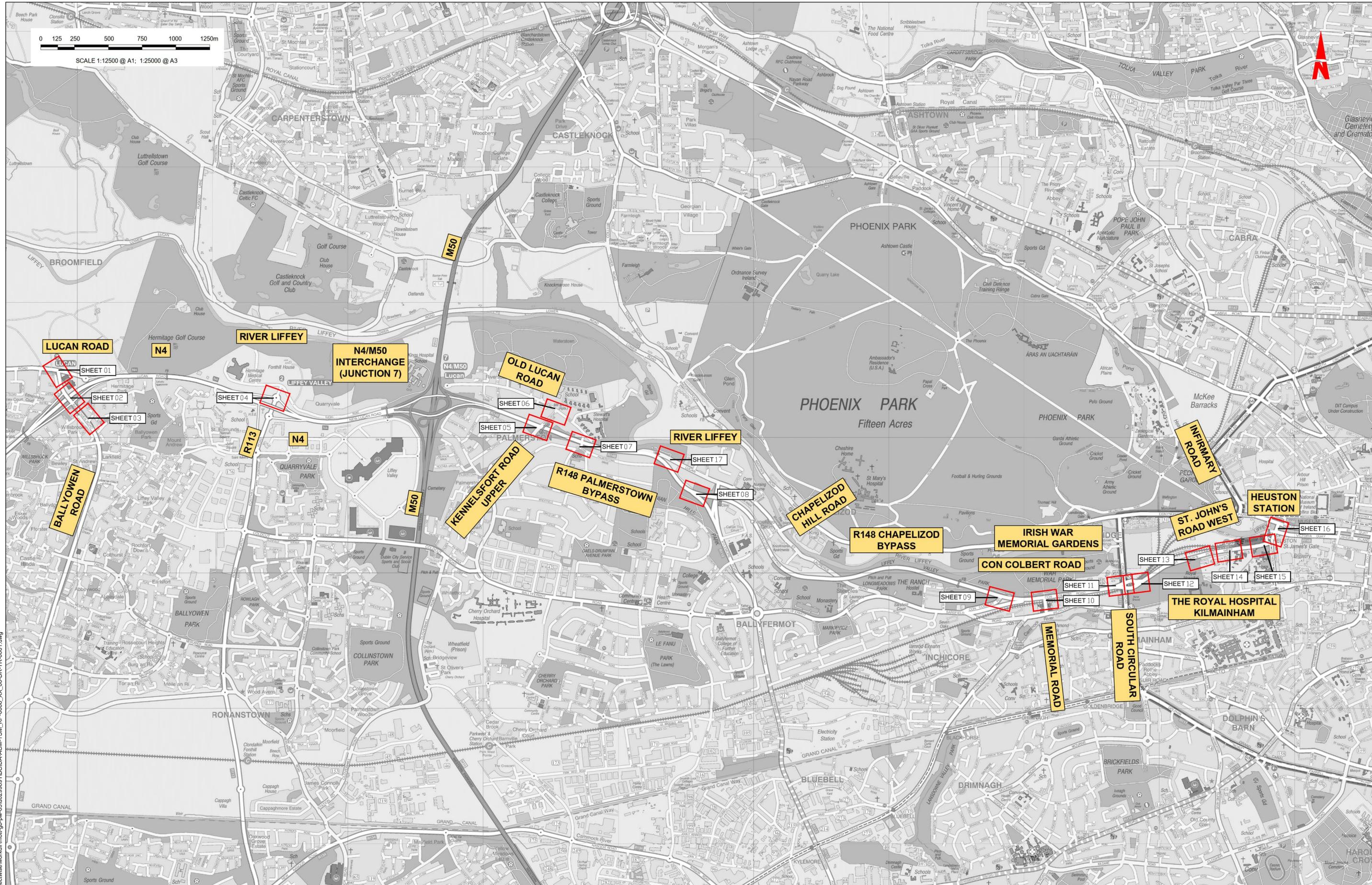
Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Date	Scale	Drawn	Checked	Approved
03/10/22	N/A	@ A1	E.CHOJ	A.T.DALE
Project Code	Originator Code	QMS Code		
BCIDA	ACM			

<b>Programme Title</b> BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
<b>Drawing Title</b> LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN COVER SHEET			
Drawing File Name	Sheet Number	Status	Rev
BCIDA-ACM-TSM_IX-0006_XX_00-DR-TR-0001	01 of 01	A	M01

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0 125 250 500 750 1000 1250m  
SCALE 1:12500 @ A1; 1:25000 @ A3



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Rev	Date	Dm	Chkd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer  
**AECOM** **MOTT MACDONALD**

Date  
03/10/22

Scale  
1:12500 @ A1  
1:25000 @ A3

Project Code  
BCIDA

Originator Code  
ACM

QMS Code

Drawn  
E.CHOI

Checked  
A.T.DALE

Approved  
C.ACTON

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

Drawing Title  
LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME  
JUNCTION SYSTEMS DESIGN  
KEY PLAN

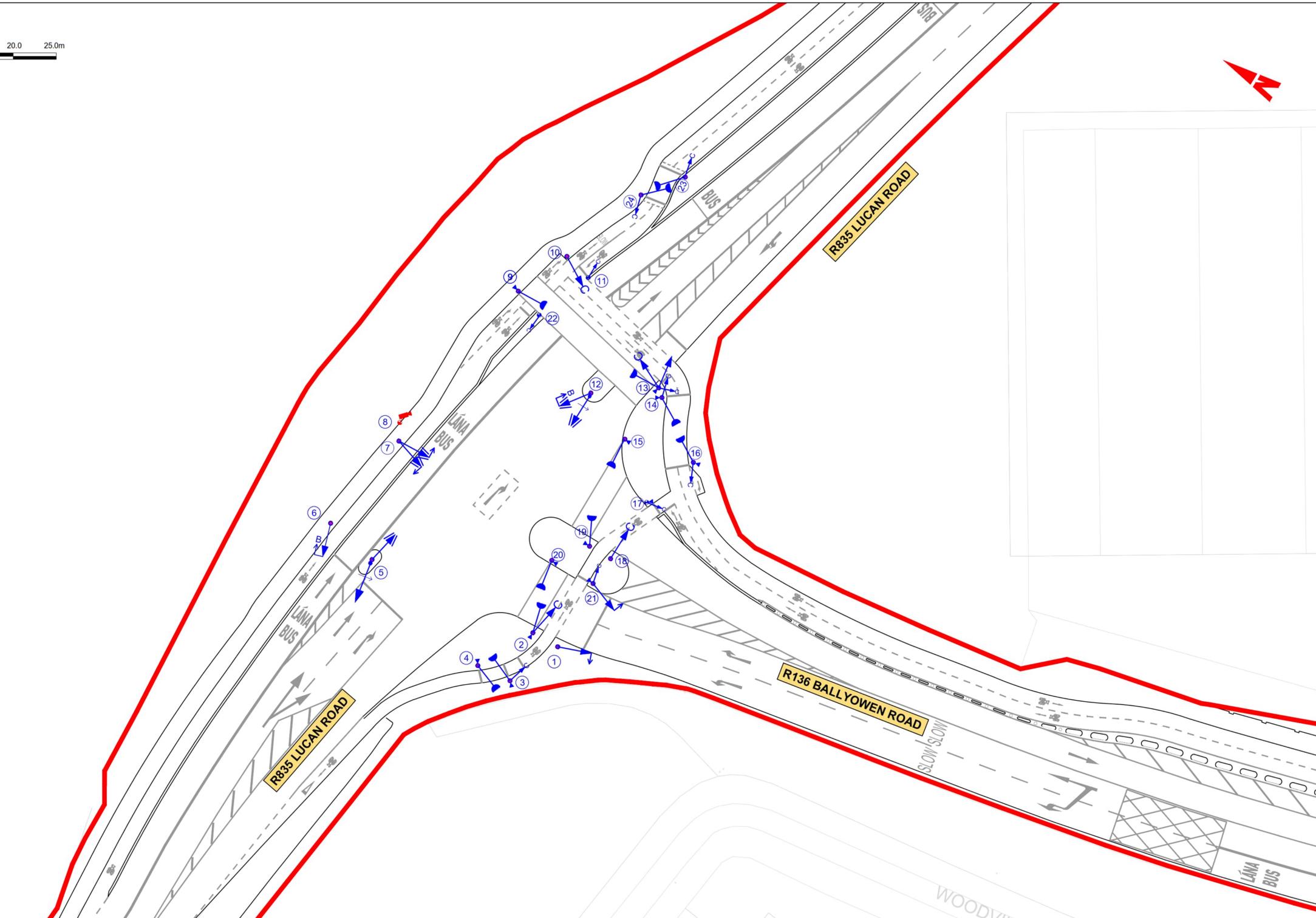
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BCIDA-ACM-TSM\_KP-0006\_XX\_00-DR-TR-0001

Sheet Number  
01 of 01

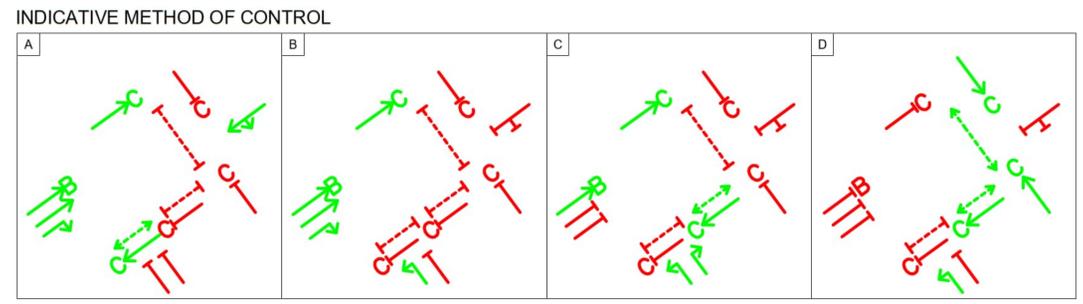
Status  
A

Rev  
M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002(A) PRIMARY
  - RTS 002(A) SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C) PRIMARY
  - RTS 002(C) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 002(E) SECONDARY
  - RTS 003(J) PRIMARY
  - RTS 003(J) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**  
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 National Transport Authority

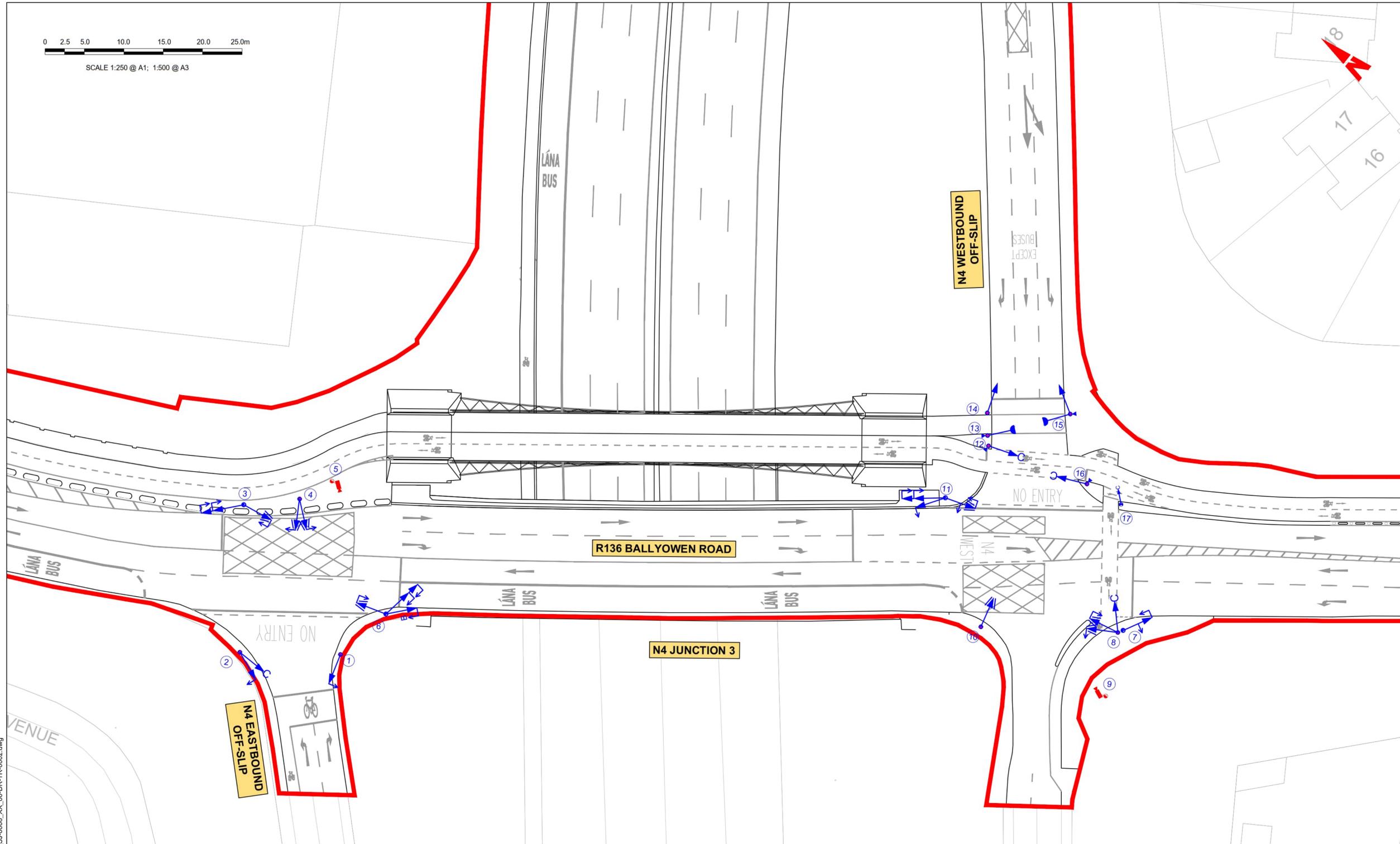
Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

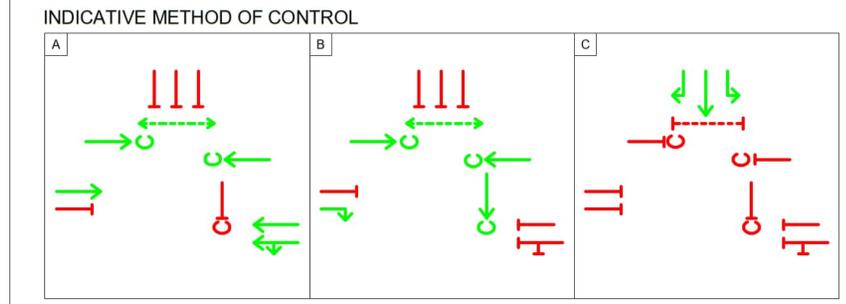
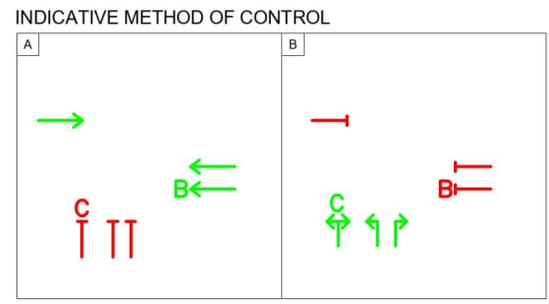
Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R136 BALLYOWEN ROAD / R835 LUCAN ROAD</b>			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0001	Sheet Number: 01 of 17	Status: A	Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002(A) PRIMARY
  - RTS 002(A) SECONDARY
  - RTS 002(B-HM) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C) PRIMARY
  - RTS 002(C) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 003(H) PRIMARY
  - RTS 003(H) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Client: **NTA**  
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National Transport Authority

Engineering Designer: **AECOM** **MOTT MACDONALD**

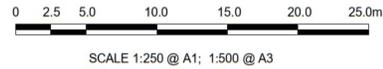
Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOJ | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

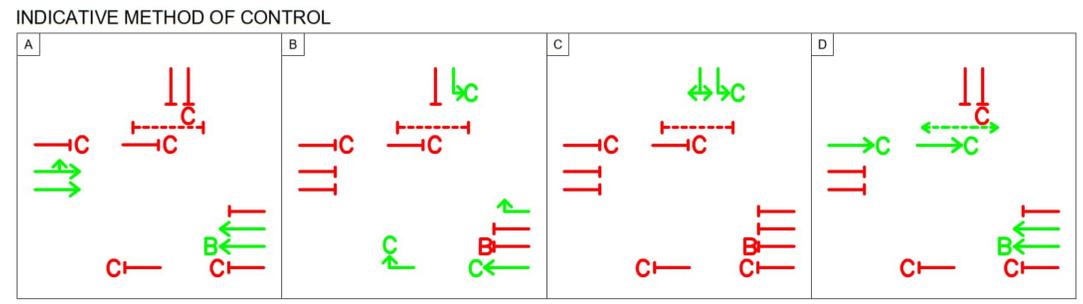
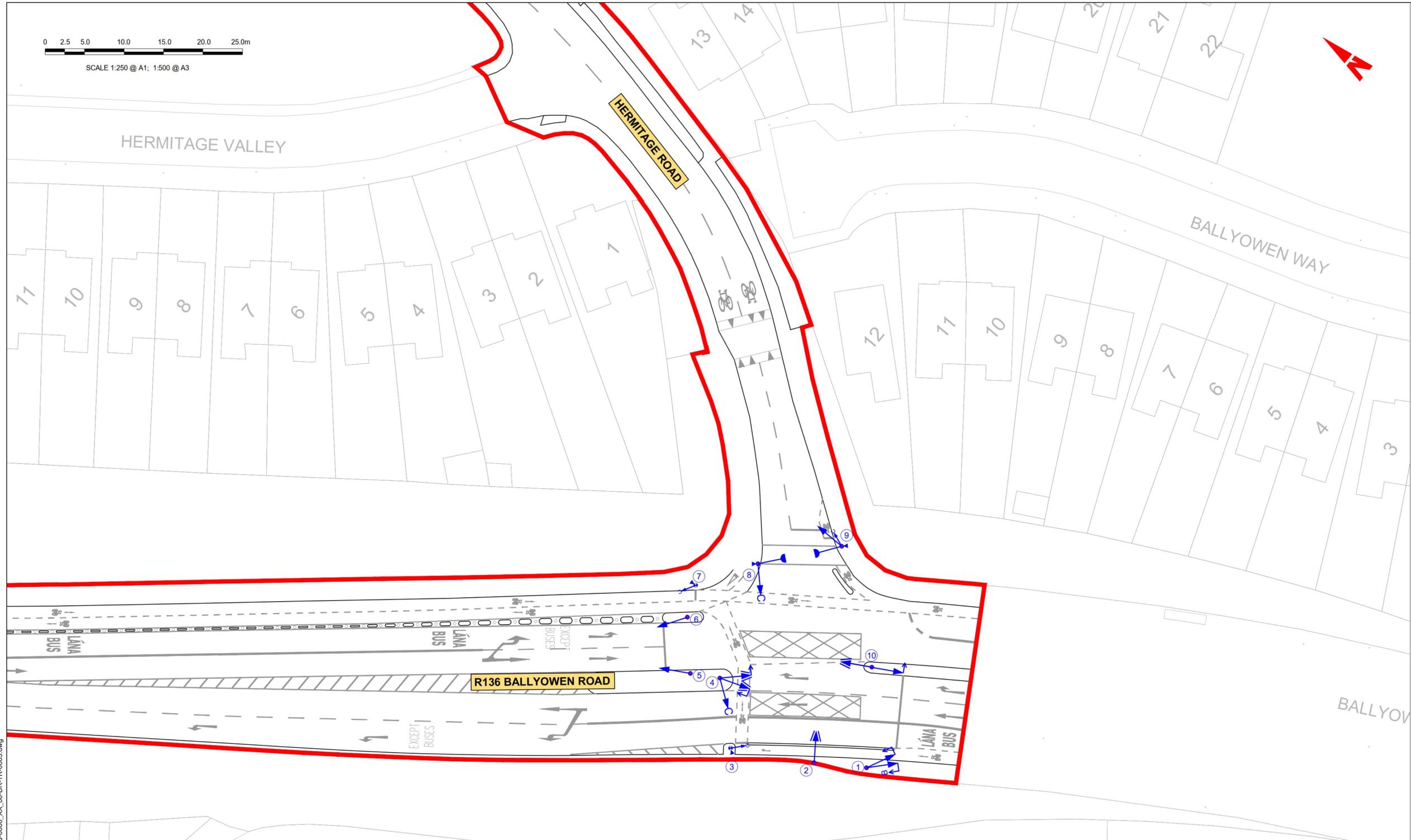
Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R136 BALLYOWEN ROAD / N4 JUNCTION 3**

Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0002	Sheet Number: 02 of 17	Status: A	Rev: M01
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C) PRIMARY
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  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
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- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOJ | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

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

Drawing Title: **LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R136 BALLYOWEN ROAD / HERMITAGE ROAD**

Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0003	Sheet Number: 03 of 17	Status: A	Rev: M01
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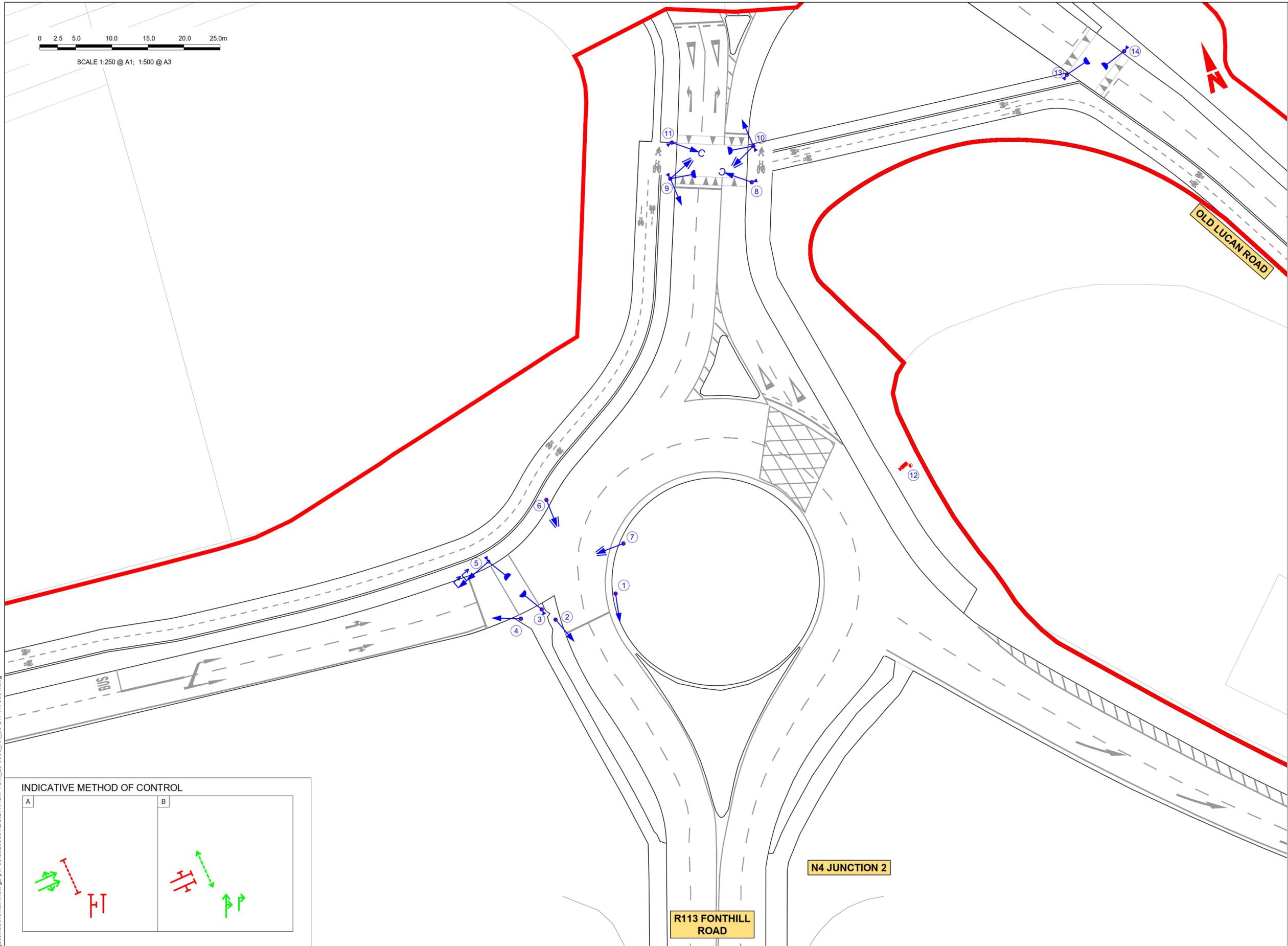
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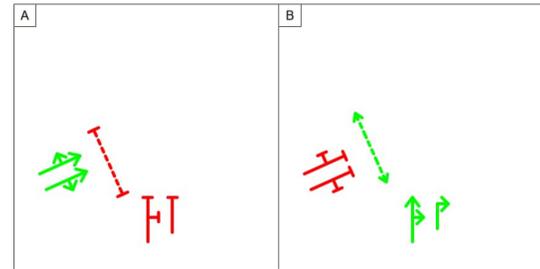
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  - RTS 001 SECONDARY
  - RTS 002(B-HM) PRIMARY
  - RTS 007 PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



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Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client

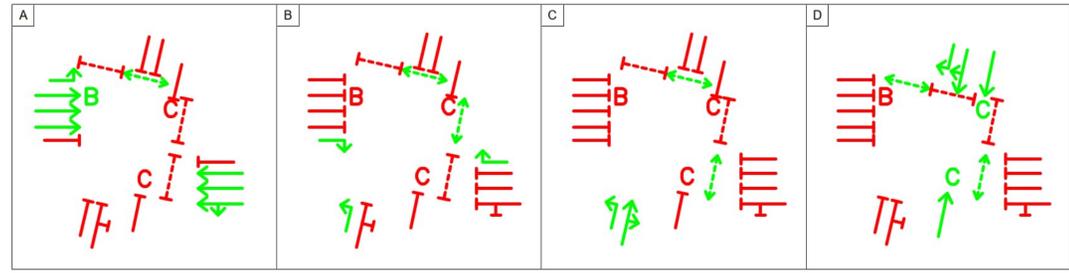
Engineering Designer

Programme Title			
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title			
LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN N4 JUNCTION 2			
Drawing File Name	Sheet Number	Status	Rev
BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0004	04 of 16	A	M01

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INDICATIVE METHOD OF CONTROL

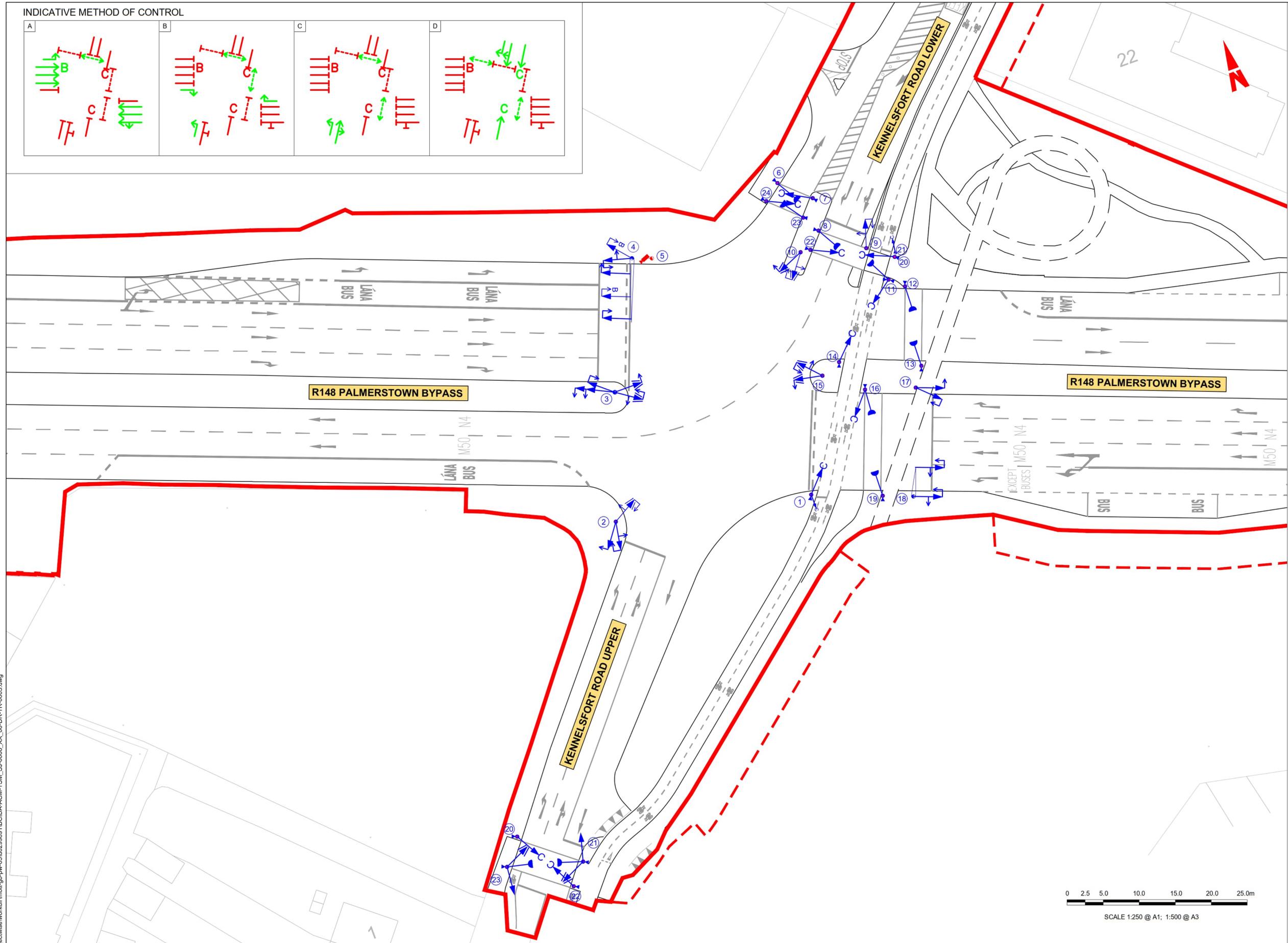


LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002(A) PRIMARY
  - RTS 002(A) SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C) PRIMARY
  - RTS 002(C-HM) PRIMARY
  - RTS 002(C) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 003(H) PRIMARY
  - RTS 003(H) SECONDARY
  - RTS 003(J) PRIMARY
  - RTS 003(J) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD

- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA

- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOJ | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

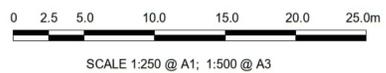
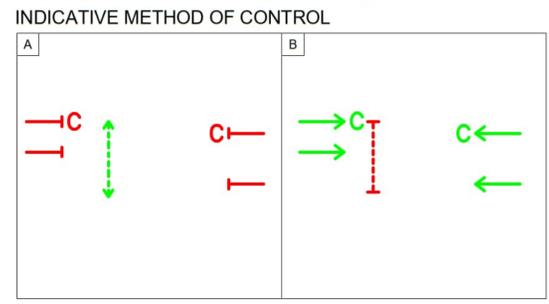
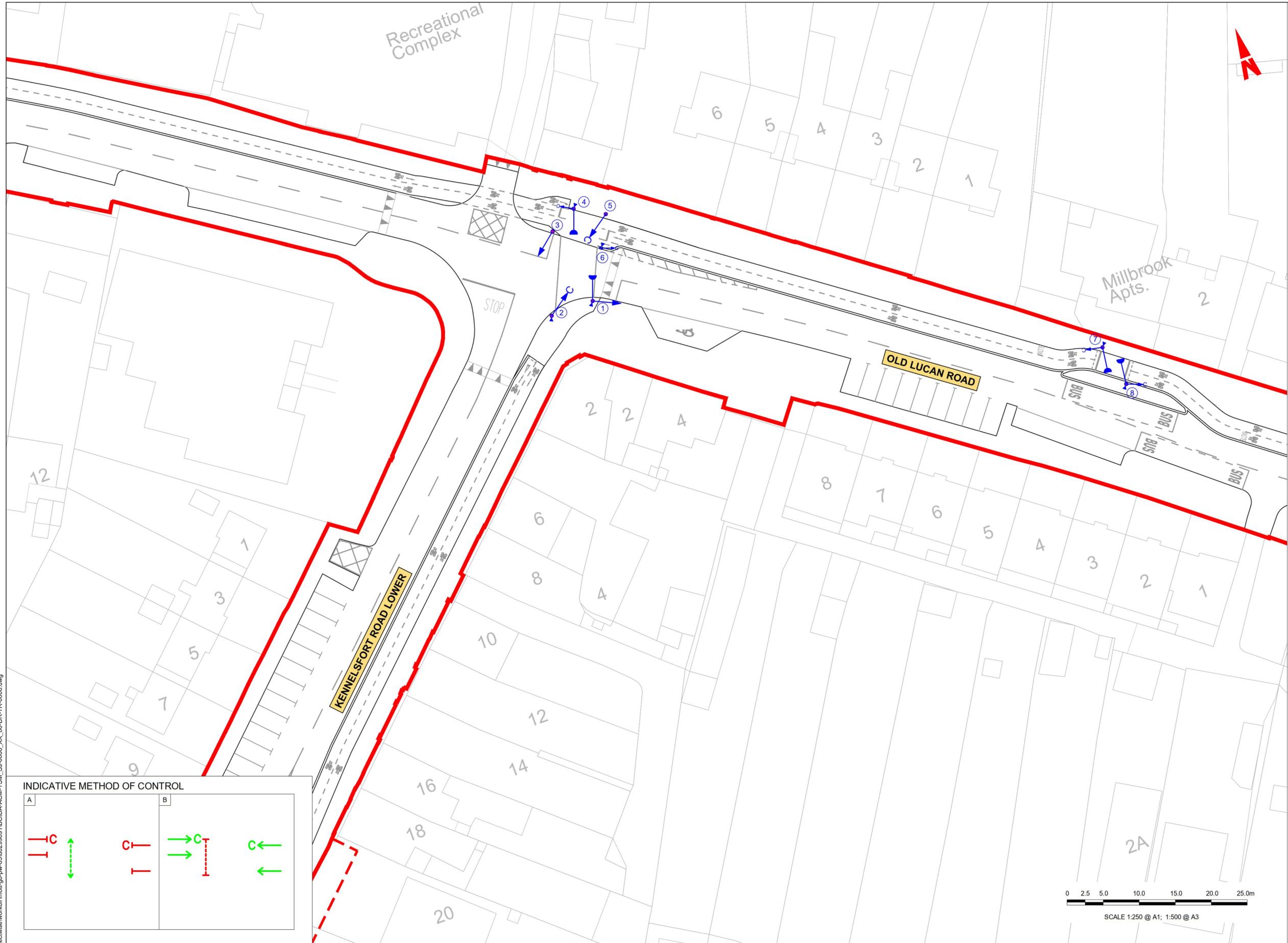
Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 PALMERSTOWN BYPASS / KENNELSFORT ROAD</b>			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0005	Sheet Number: 05 of 17	Status: A	Rev: M01

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Recreational Complex



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **AECOM** and **MOTT MACDONALD**

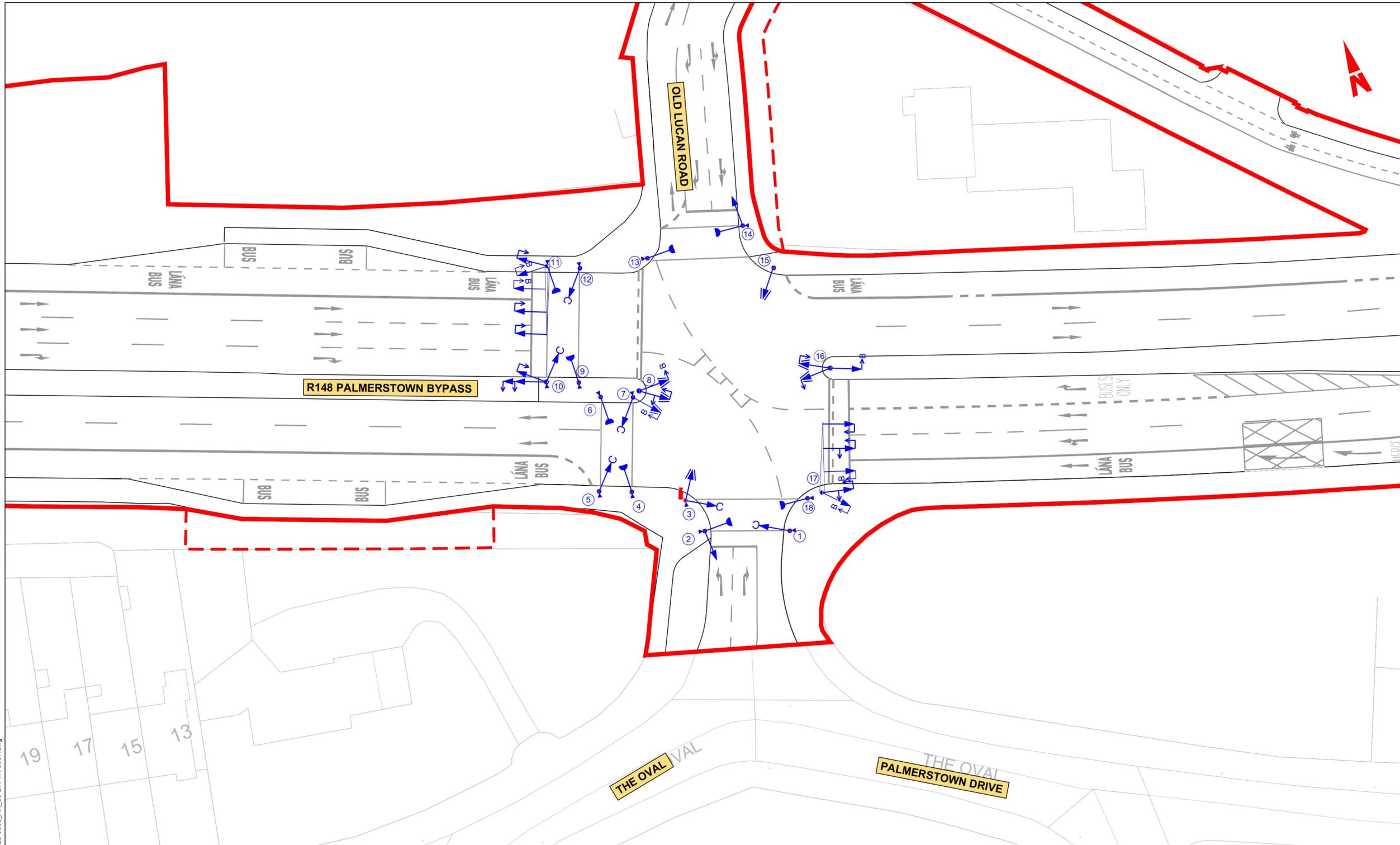
Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOJ | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN OLD LUCAN ROAD / KENNELSFORT ROAD LOWER</b>			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0006	Sheet Number: 06 of 17	Status: A	Rev: M01

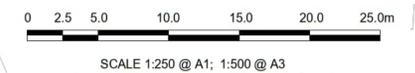
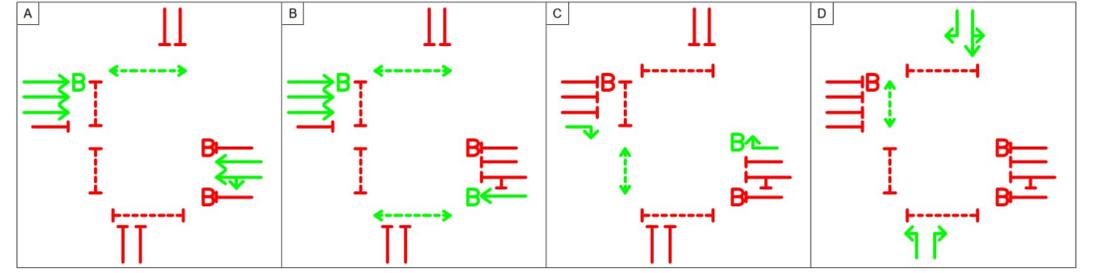
DO NOT SCALE USE FIGURED DIMENSIONS ONLY

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C-HM) PRIMARY
  - RTS 002(C) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 002(E) SECONDARY
  - RTS 002(J) PRIMARY
  - RTS 002(J) SECONDARY
  - RTS 003(H) PRIMARY
  - RTS 003(H) SECONDARY
  - RTS 007 PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION

**INDICATIVE METHOD OF CONTROL**



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

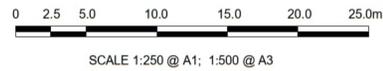
Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOJ | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

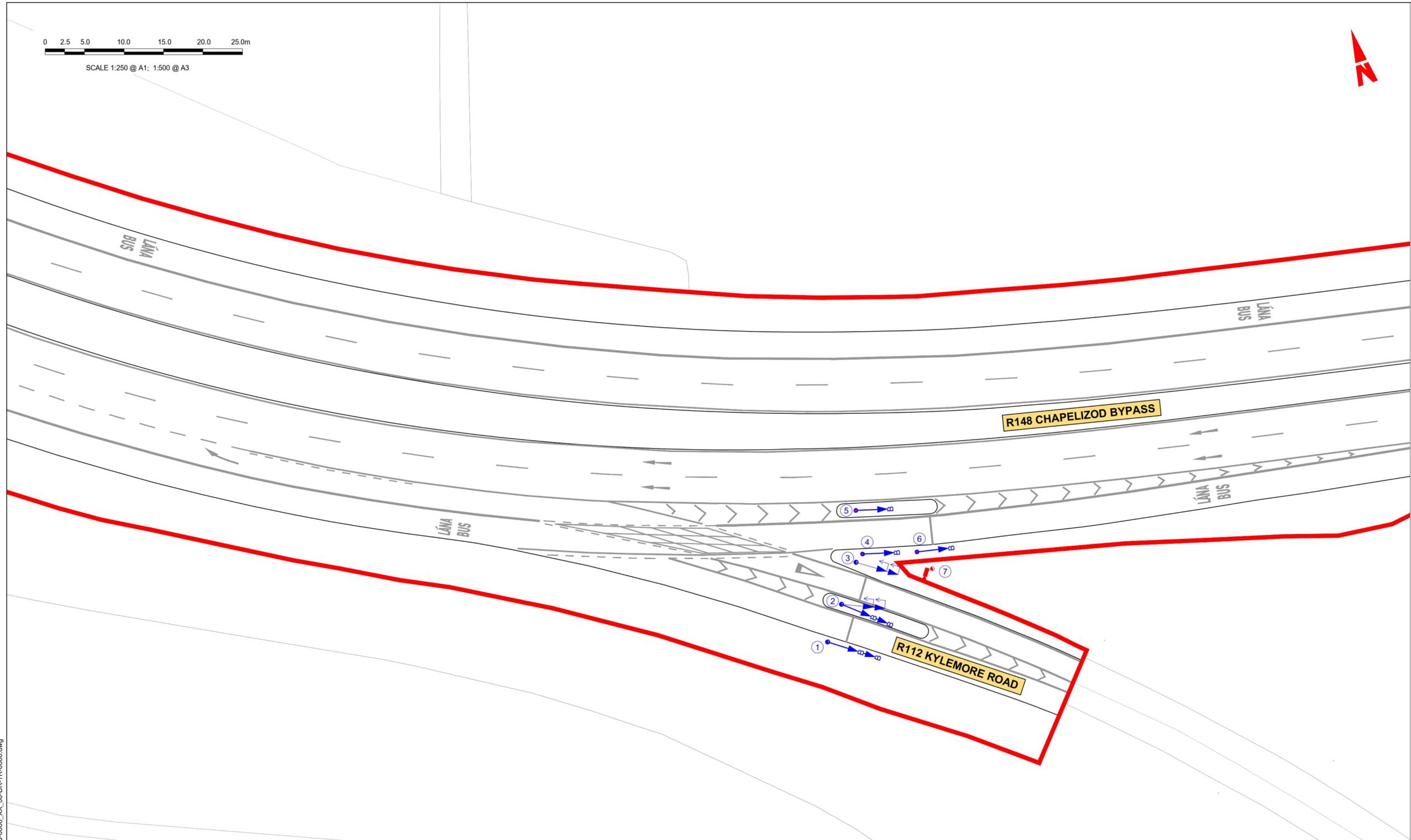
Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 PALMERSTOWN BYPASS / THE OVAL</b>			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0007	Sheet Number: 07 of 17	Status: A	Rev: M01

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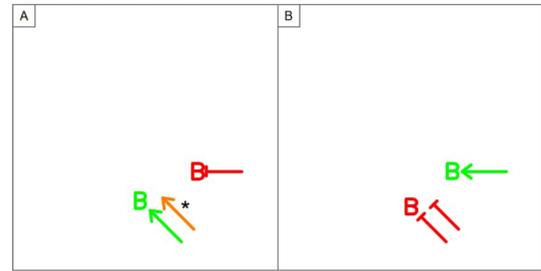


LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 004 PRIMARY
  - RTS 002(D) PRIMARY
  - RTS 002(D-HM) PRIMARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



\* denotes Flashing Amber

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Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client

Engineering Designer

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 CHAPELIZOD BYPASS / R112 KYLEMORE ROAD			
Drawing File Name BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0008	Sheet Number 08 of 17	Status A	Rev M01

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SCALE 1:250 @ A1; 1:500 @ A3

LEGEND:

TRAFFIC SIGNAL HEADS:

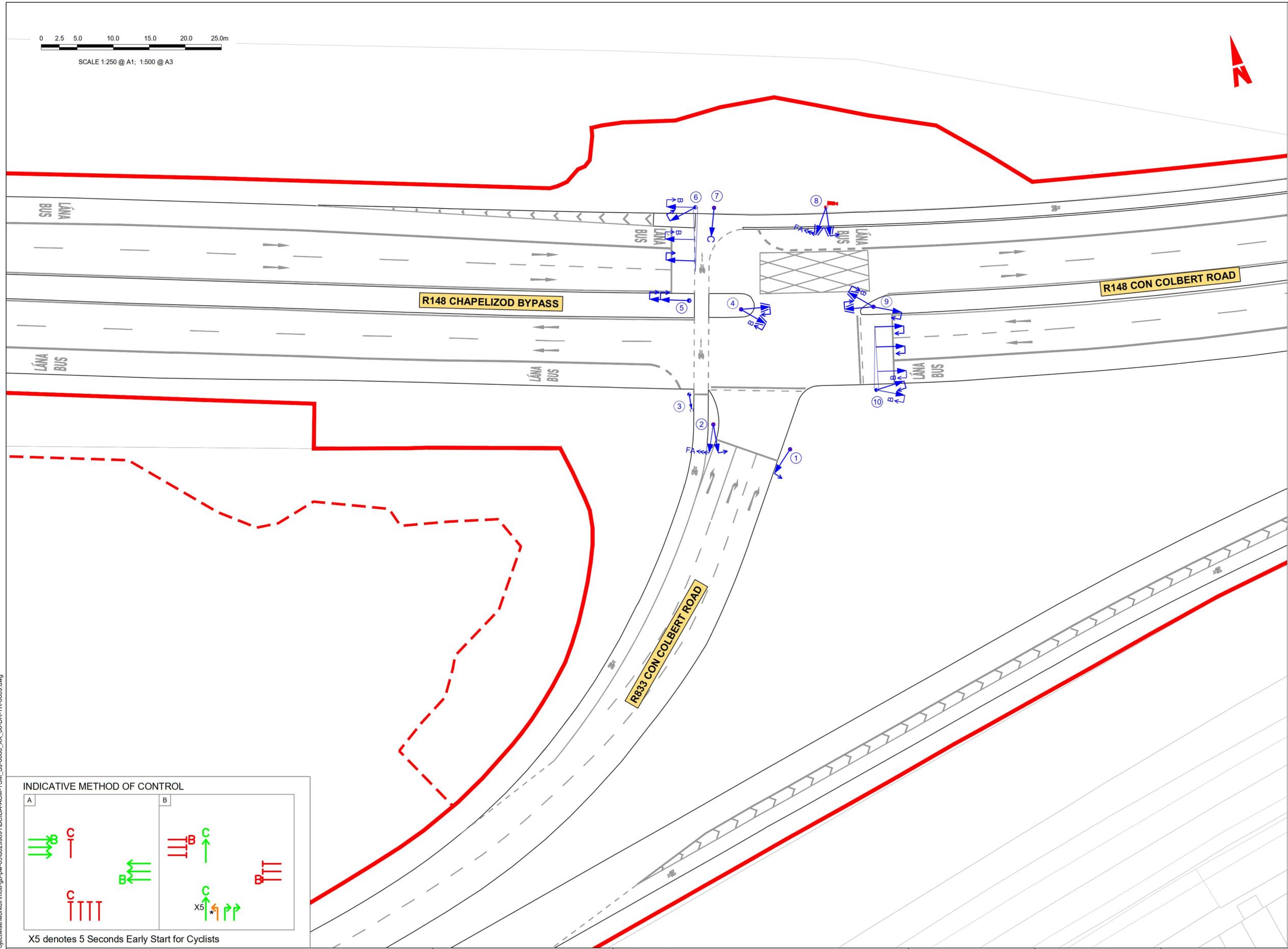
- RTS 002(B) PRIMARY
- RTS 002(B-HM) PRIMARY
- RTS 002(B) SECONDARY
- RTS 002(C) PRIMARY
- RTS 002(C) SECONDARY
- RTS 002(E) PRIMARY
- RTS 002(E) SECONDARY
- RTS 004(A) PRIMARY
- RTS 004(A) SECONDARY
- RTS 007 PRIMARY
- RTS 007 (LOW LEVEL) PRIMARY

TRAFFIC SIGNAL EQUIPMENT:

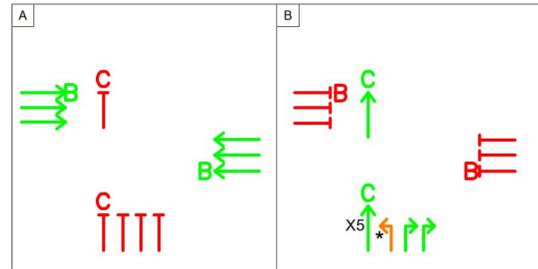
- POLE (STANDARD HEIGHT)
- SMALL POLE
- TALL POLE (TRAFFIC SIGNALS)
- MASTER ARM (VARIABLE LENGTH)
- TALL POLE (CCTV/TRAFFIC SIGNALS)
- POLE NUMBER
- PUSH BUTTON UNIT
- PAN / TILT / ZOOM CCTV CAMERA

GENERAL:

- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



X5 denotes 5 Seconds Early Start for Cyclists

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 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 as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.  
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Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer  
**AECOM**  
**MOTT MACDONALD**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 CHAPELIZOD BYPASS / R148 CON COLBERT ROAD			
Drawing File Name BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0009	Sheet Number 09 of 17	Status A	Rev M01

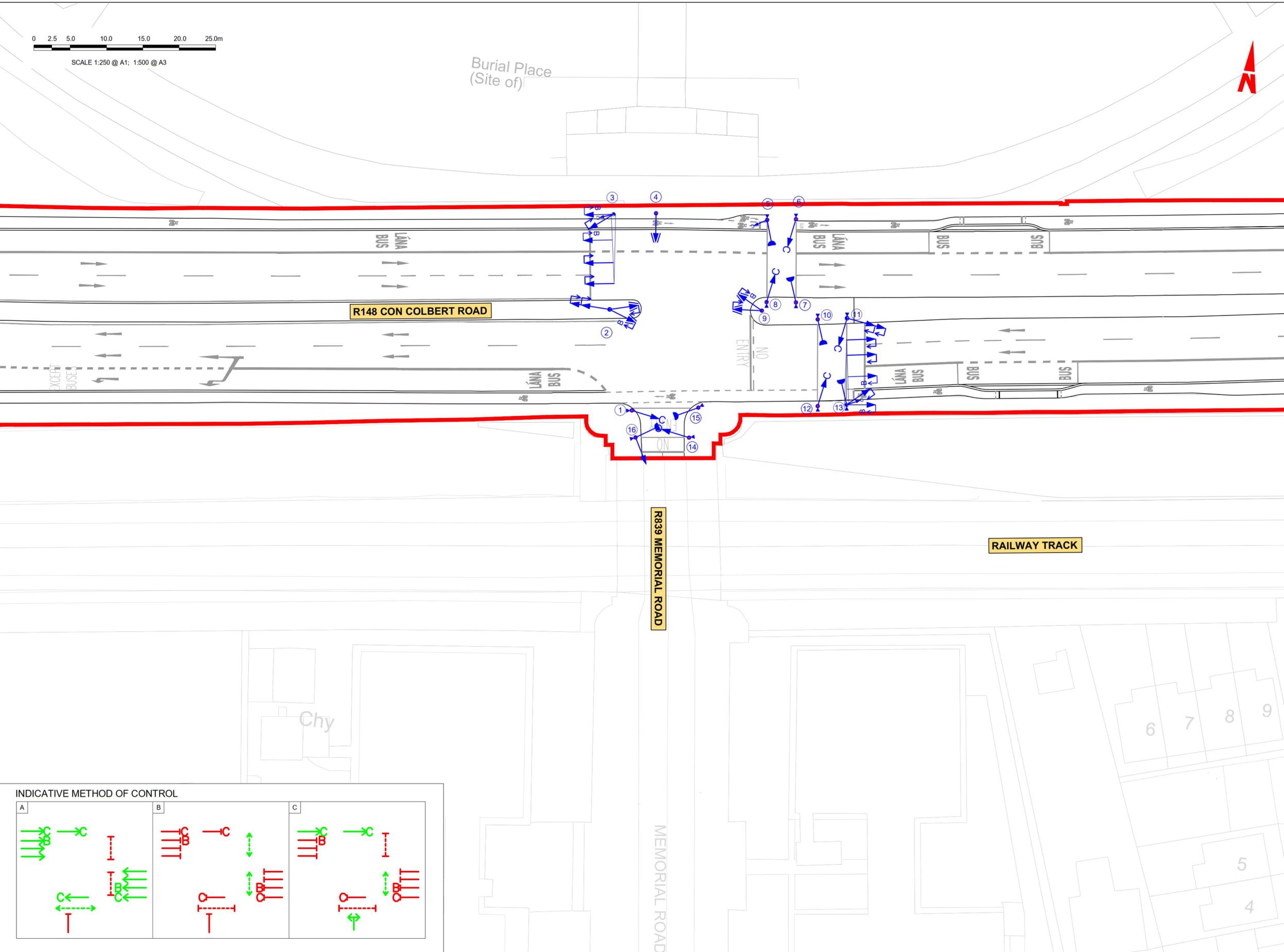
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0 2.5 5.0 10.0 15.0 20.0 25.0m

SCALE 1:250 @ A1; 1:500 @ A3

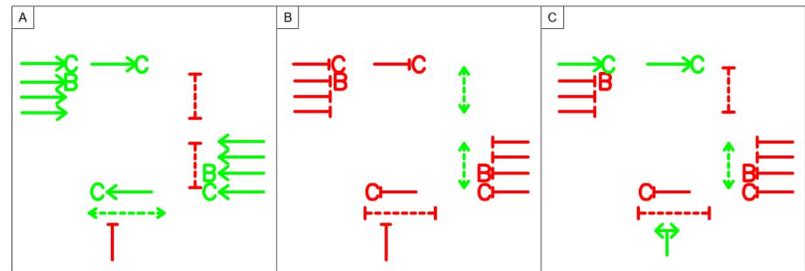
Burial Place  
(Site of)



LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B-HM) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 002(E) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



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Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client

Engineering Designer

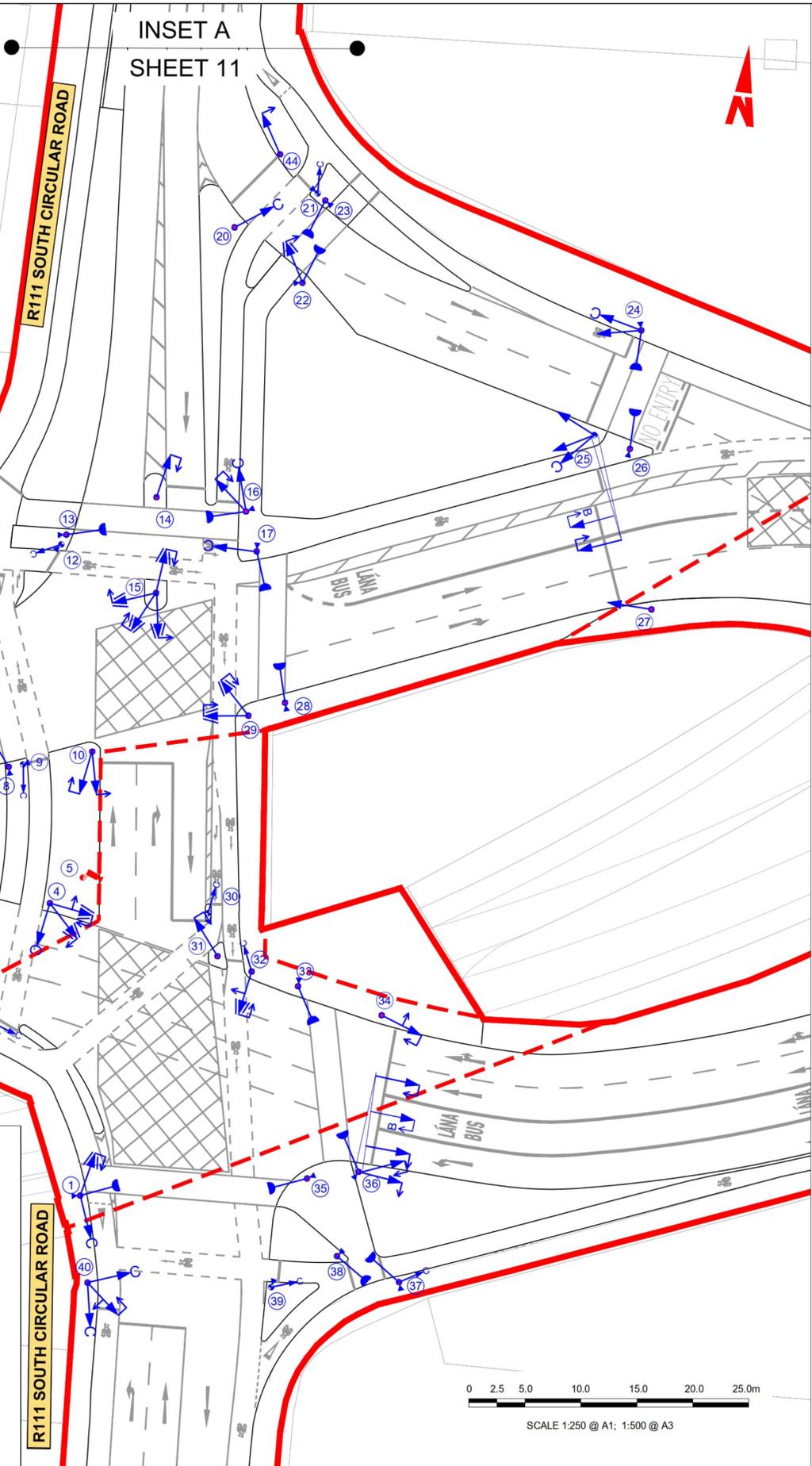
Programme Title			
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title			
LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 CON COLBERT ROAD / R839 MEMORIAL ROAD			
Drawing File Name	Sheet Number	Status	Rev
BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0010	10 of 17	A	M01

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INSET A

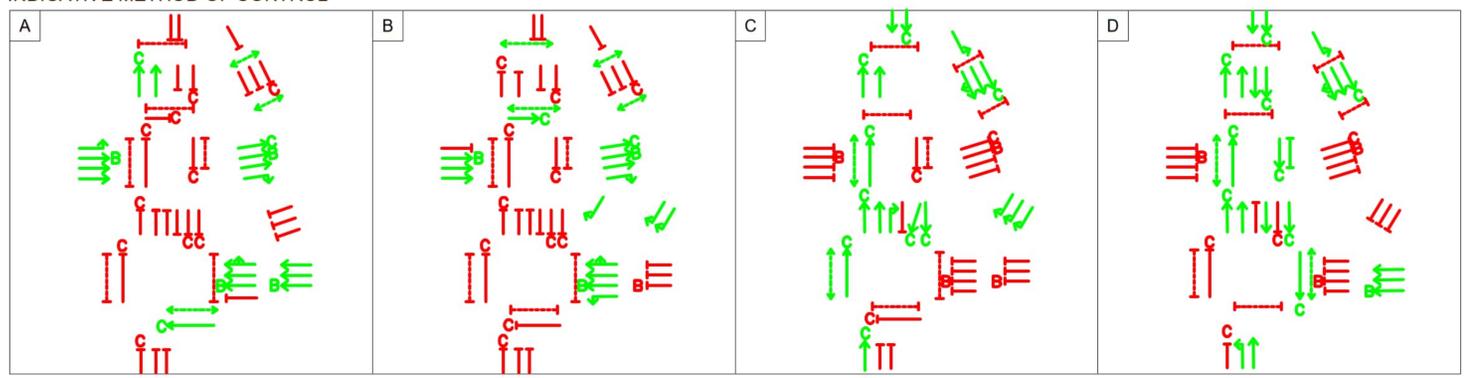


INSET A  
SHEET 11



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 002(A) PRIMARY
  - RTS 002(A) SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C) PRIMARY
  - RTS 002(C) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 002(E) SECONDARY
  - RTS 003(H) PRIMARY
  - RTS 003(H) SECONDARY
  - RTS 003(J) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



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Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

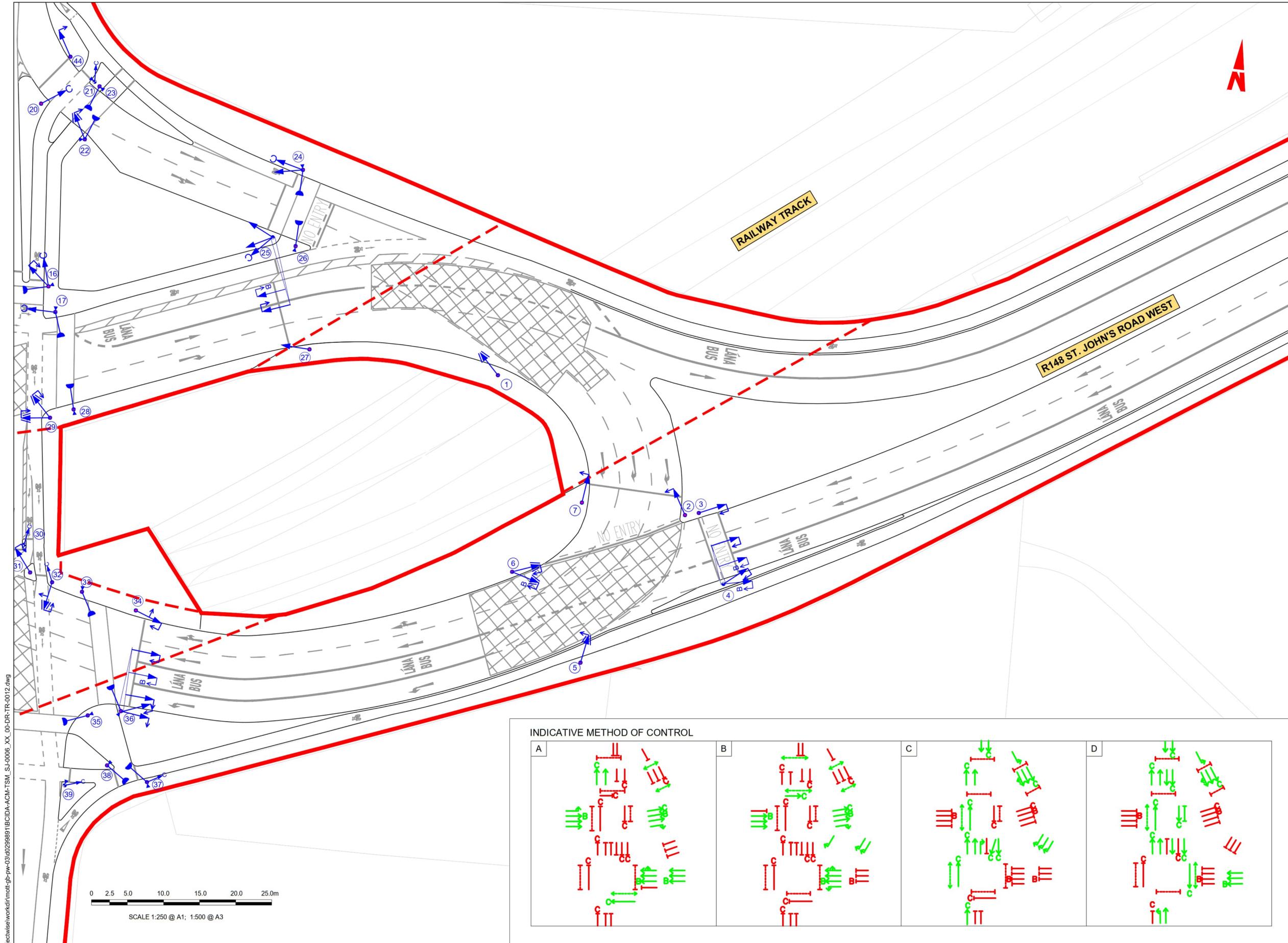
Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

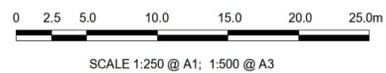
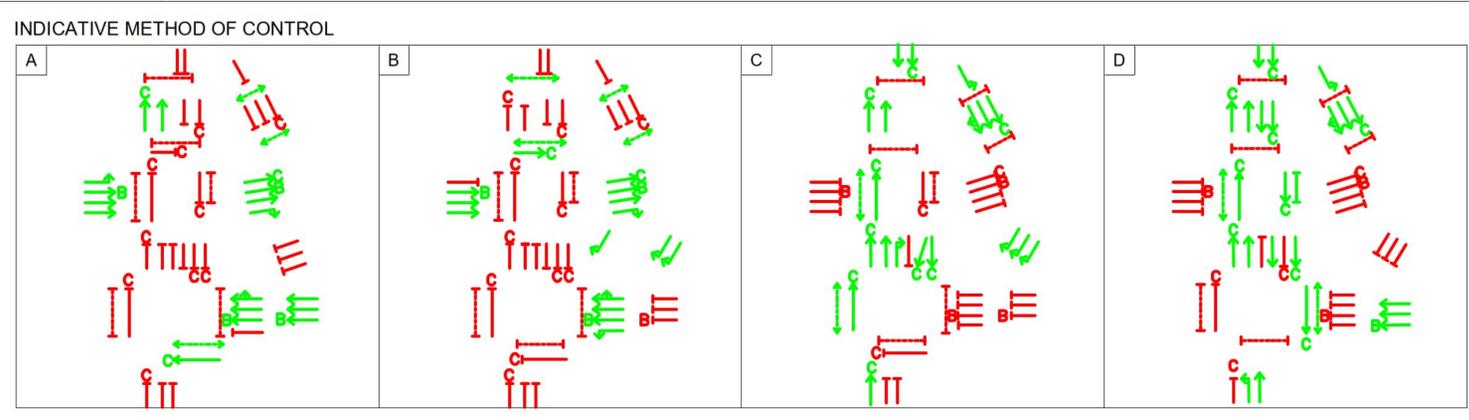
Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN CON COLBERT ROAD / R111 SOUTH CIRCULAR ROAD</b>			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0011	Sheet Number: 11 of 17	Status: A	Rev: M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 001 SECONDARY
  - RTS 002(A) PRIMARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C) PRIMARY
  - RTS 002(C) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 002(E) SECONDARY
  - RTS 003(H) PRIMARY
  - RTS 003(H) SECONDARY
  - RTS 003(J) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOJ | Checked: A.T.DALE | Approved: C.ACTON

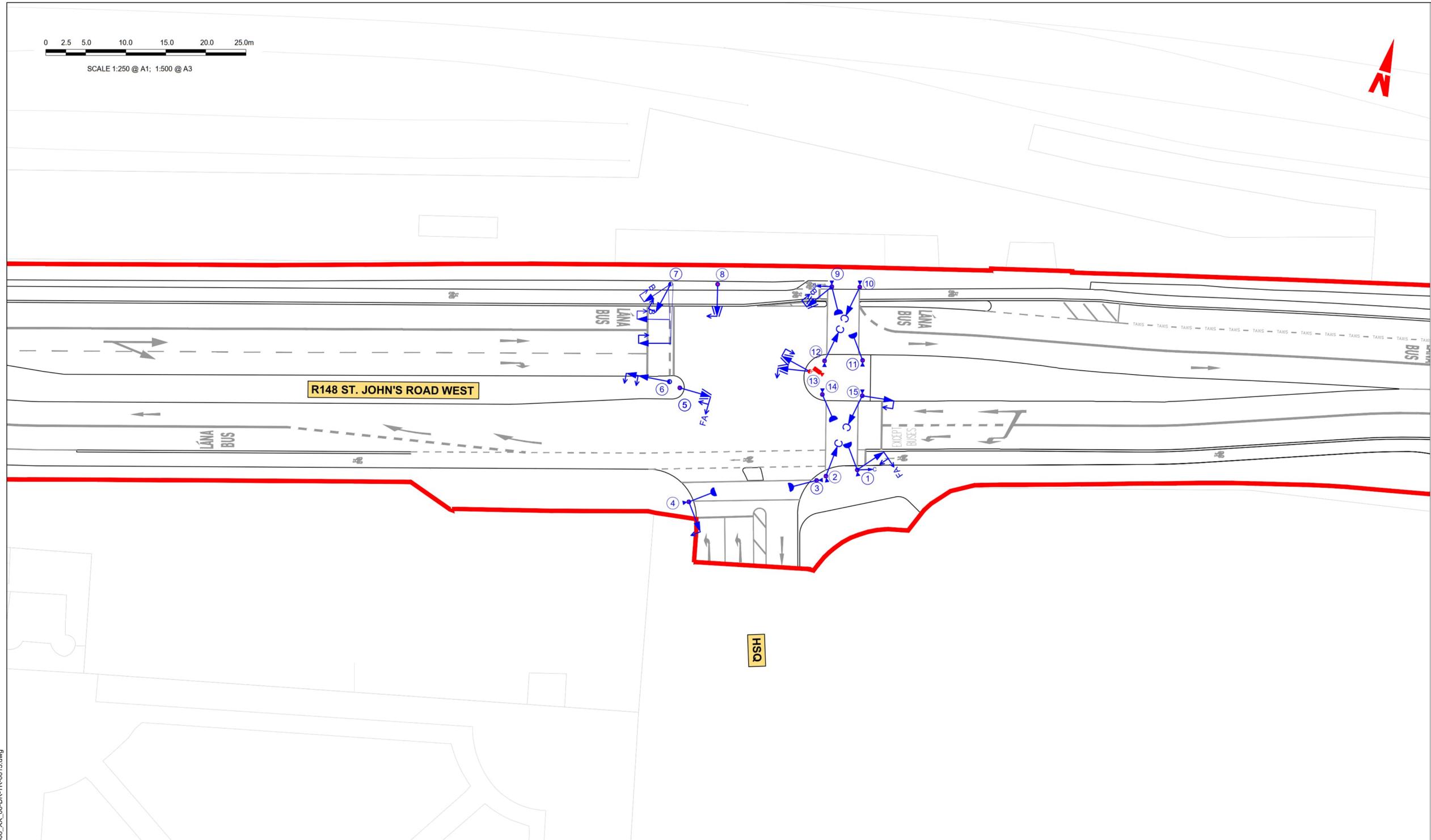
Project Code: BCIDA | Originator Code: ACM | QMS Code:

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

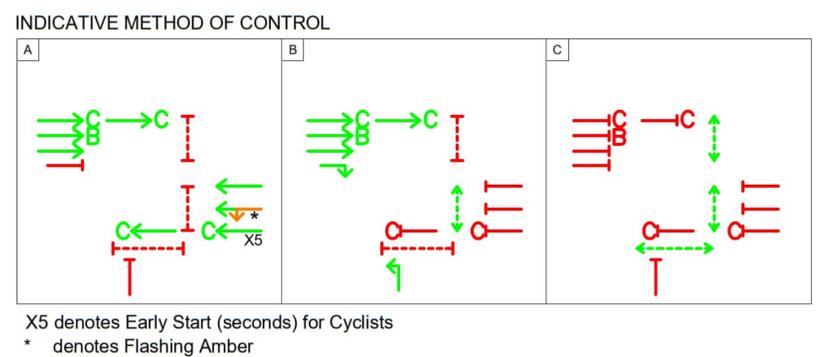
Drawing Title: **LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 ST. JOHN'S ROAD WEST / R111 SOUTH CIRCULAR ROAD**

Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0012	Sheet Number: 12 of 17	Status: A	Rev: M01
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DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 002(A) PRIMARY
  - RTS 002(A) SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C-HM) PRIMARY
  - RTS 002(C) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 002(E) SECONDARY
  - RTS 003 PRIMARY
  - RTS 003 SECONDARY
  - RTS 003(H) PRIMARY
  - RTS 003(H) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



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Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer: **AECOM** MOTT MACDONALD

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 ST. JOHN'S ROAD WEST / HSQ</b>			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0013	Sheet Number: 13 of 17	Status: A	Rev: M01

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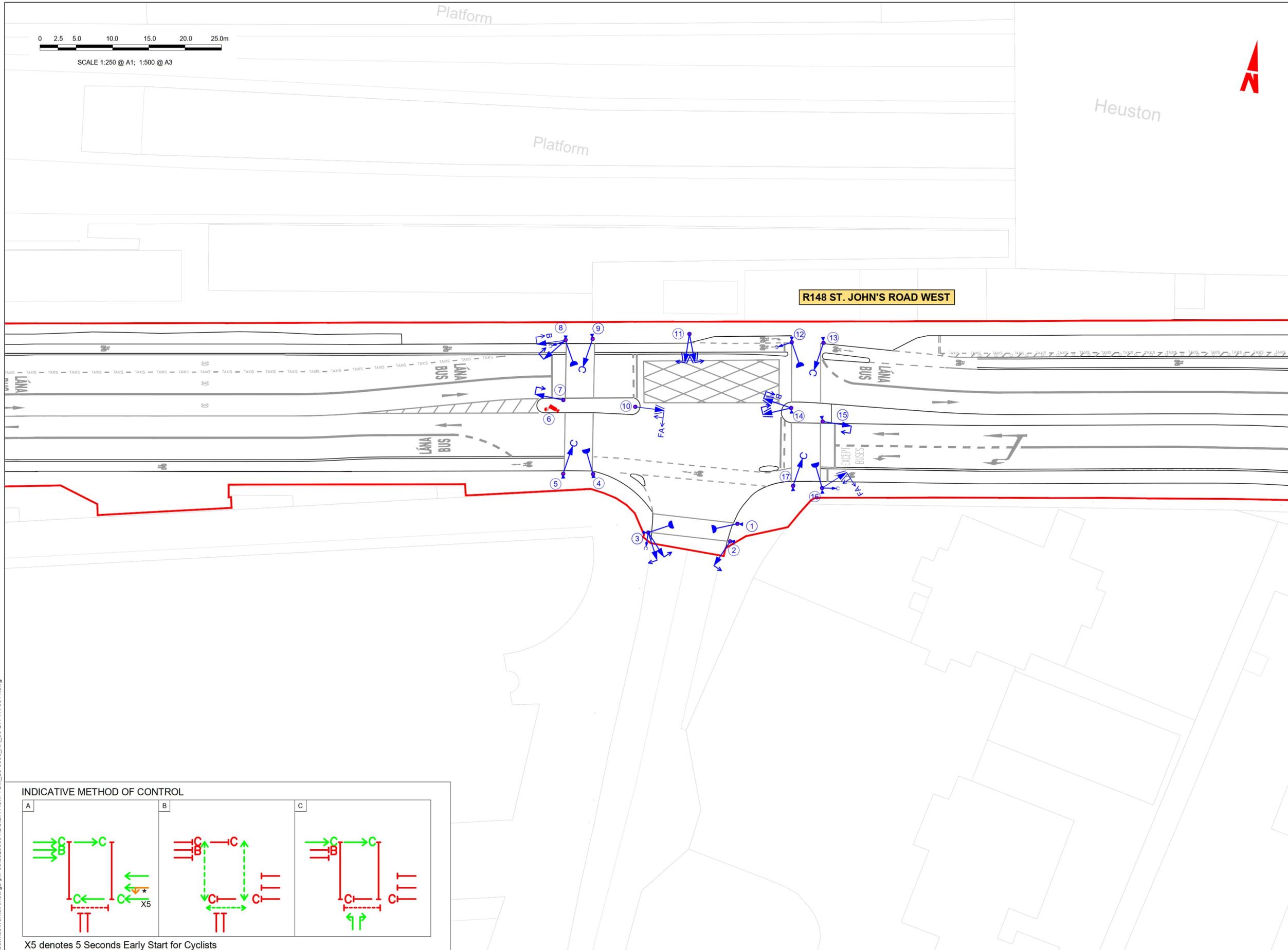


SCALE 1:250 @ A1; 1:500 @ A3

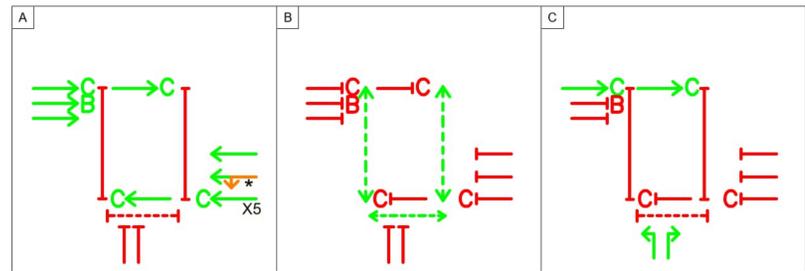


LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 002(A) PRIMARY
  - RTS 002(A) SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C) PRIMARY
  - RTS 002(C) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 002(E) SECONDARY
  - RTS 003 PRIMARY
  - RTS 003 SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



X5 denotes 5 Seconds Early Start for Cyclists

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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

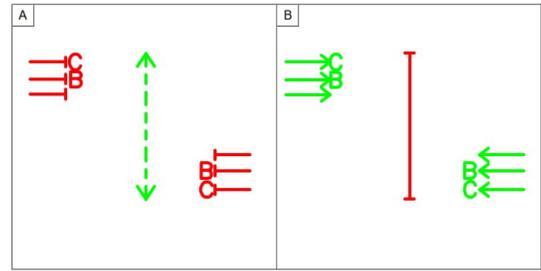
Client

Engineering Designer

Programme Title			
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title			
LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 ST. JOHN'S ROAD WEST / MILITARY ROAD			
Drawing File Name	Sheet Number	Status	Rev
BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0014	14 of 17	A	M01

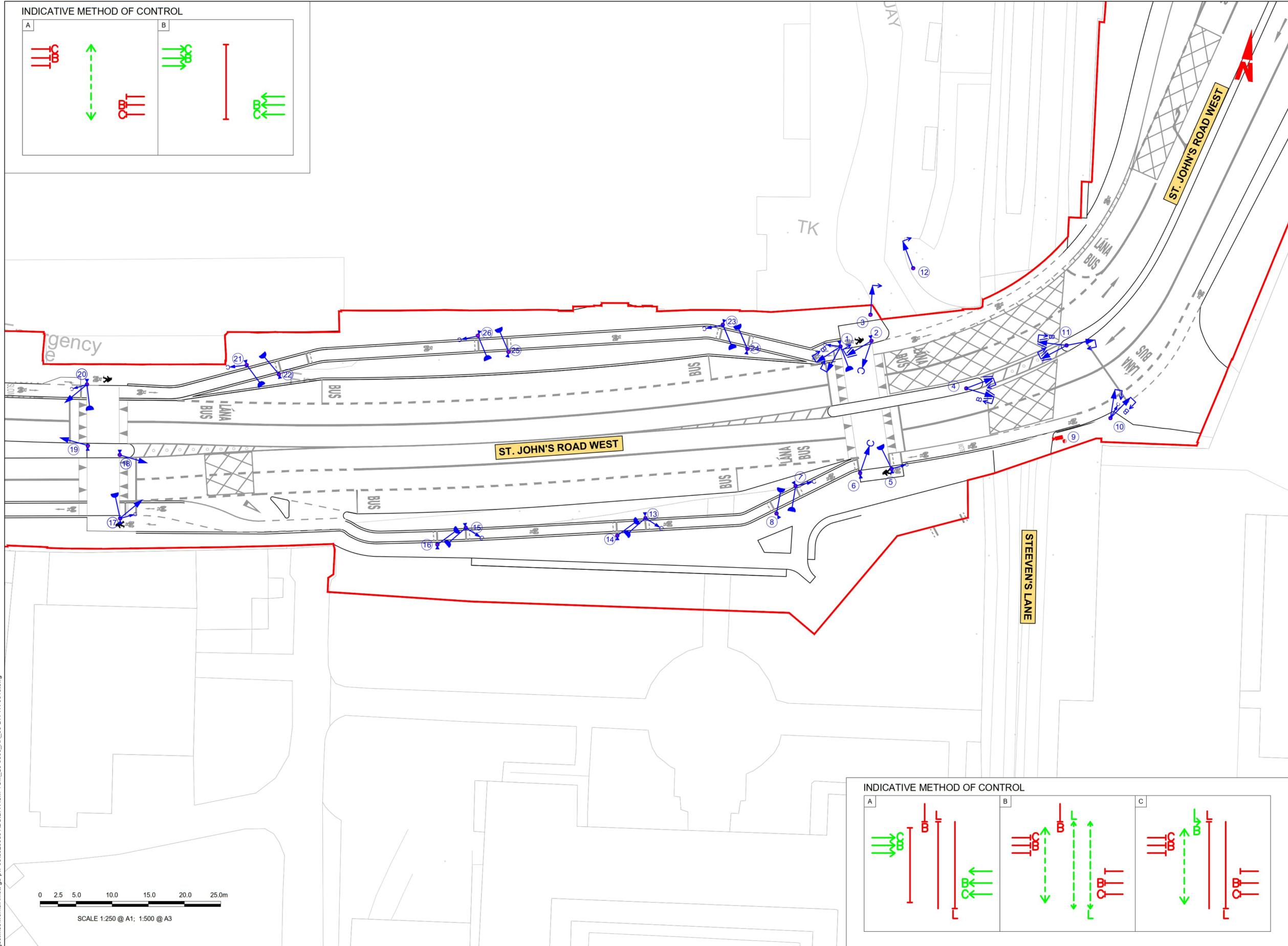
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INDICATIVE METHOD OF CONTROL

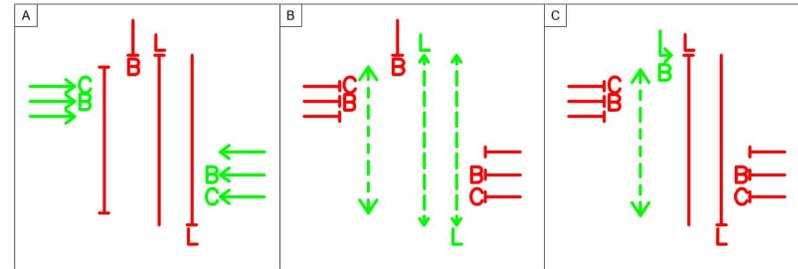


LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(E) PRIMARY
  - RTS 002(E) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
  - RTS 002(A) PRIMARY
  - RTS 002(A) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



SCALE 1:250 @ A1; 1:500 @ A3

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Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client <b>NTA</b> Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer <b>AECOM</b> <b>M</b> <b>MOTT</b> <b>M</b> <b>MACDONALD</b>	
Date 03/10/22	Scale 1:250 @ A1 1:500 @ A3	Drawn E.CHOJ	Checked A.T.DALE
Project Code BCIDA	Originator Code ACM	Approved C.ACTON	

Programme Title <b>BUSCONNECTS DUBLIN</b> <b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN ST. JOHN'S ROAD WEST / HEUSTON STATION			
Drawing File Name BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0015	Sheet Number 15 of 17	Status A	Rev M01

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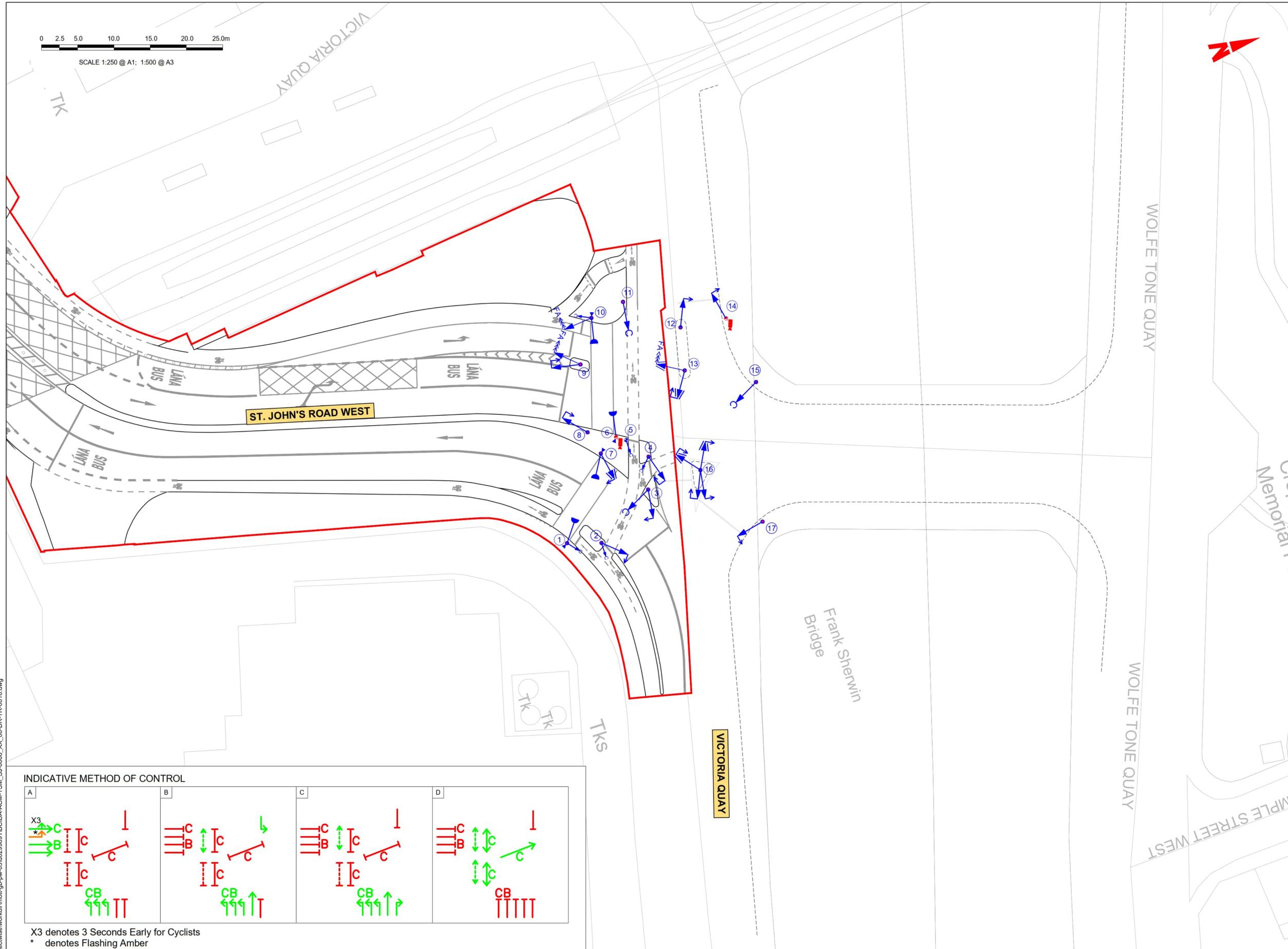
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0 2.5 5.0 10.0 15.0 20.0 25.0m

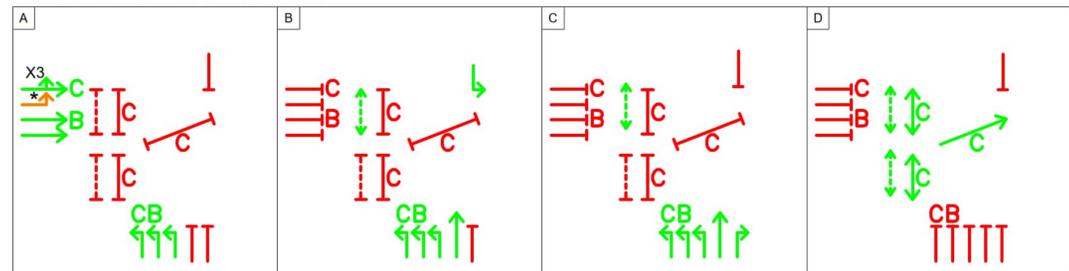
SCALE 1:250 @ A1; 1:500 @ A3

LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 002(A) PRIMARY
  - RTS 002(A) SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C) PRIMARY
  - RTS 004(A) PRIMARY
  - RTS 004(A) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



X3 denotes 3 Seconds Early for Cyclists  
\* denotes Flashing Amber

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Rev	Date	Dm	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

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

Engineering Designer  
**AECOM** **M**  
**MOTT MACDONALD**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN ST. JOHN'S ROAD WEST / VICTORIA QUAY			
Drawing File Name BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0016	Sheet Number 16 of 17	Status A	Rev M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

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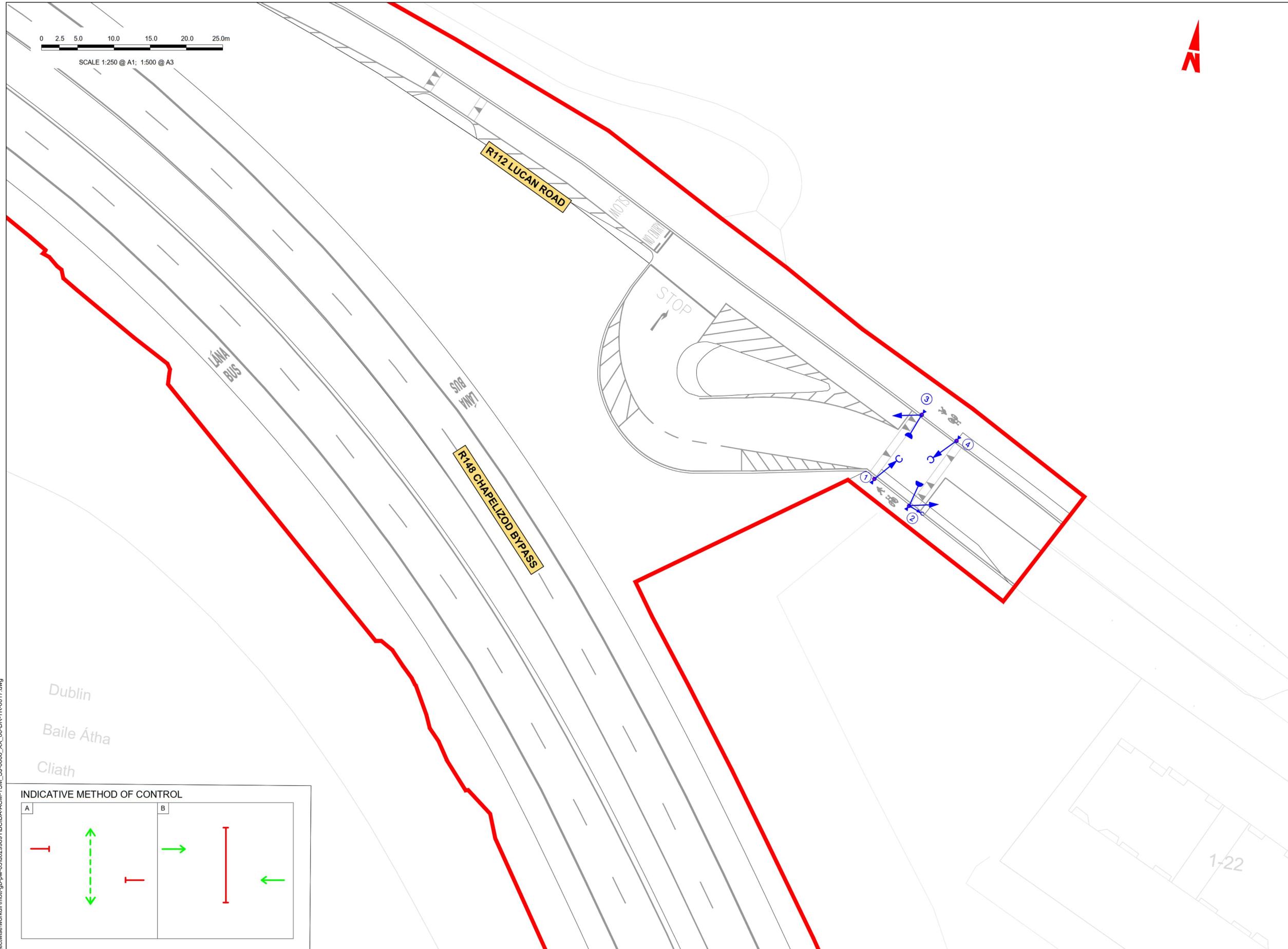


SCALE 1:250 @ A1; 1:500 @ A3



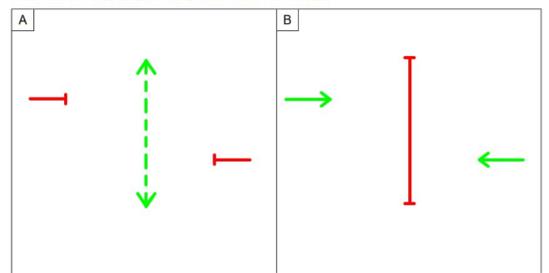
LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 002(A) PRIMARY
  - RTS 002(A) SECONDARY
  - RTS 002(B) PRIMARY
  - RTS 002(B) SECONDARY
  - RTS 002(C) PRIMARY
  - RTS 004(A) PRIMARY
  - RTS 004(A) SECONDARY
  - RTS 007 PRIMARY
  - RTS 007 (LOW LEVEL) PRIMARY
  - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
  - SMALL POLE
  - TALL POLE (TRAFFIC SIGNALS)
  - MASTER ARM (VARIABLE LENGTH)
  - TALL POLE (CCTV/TRAFFIC SIGNALS)
  - POLE NUMBER
  - PUSH BUTTON UNIT
  - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
  - TEMPORARY LAND ACQUISITION



Dublin  
Baile Átha  
Cliath

INDICATIVE METHOD OF CONTROL



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

Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: <b>LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN LUCAN ROAD</b>			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0017	Sheet Number: 17 of 17	Status: A	Rev: M01

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