

Junction
Systems Design





BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME

JUNCTION SYSTEM DESIGN

DRAWING SERIES NUMBER(S)

BCIDD-ROT-TSM_IX-0016_XX_00-DR-TR-0001

BCIDD-ROT-TSM_KP-0016_XX_00-DR-TR-0001

BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001 to 0020

DRAWING SERIES DESCRIPTION

RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEM DESIGN. COVER SHEET

RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEM DESIGN. KEY PLAN

RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEM DESIGN. DRAWINGS.

\\rodubp1u20191917117117-02_WIP08 MODELS01 CAD01 DWG03 STG 3 - STATUTORY PROCESS (M)01 PLANNING16 RINGSEND\Cover_Sheets\BCIDD-ROT-TSM_IX-0016_XX_00-DR-TR-0001.dwg

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

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contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded.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

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

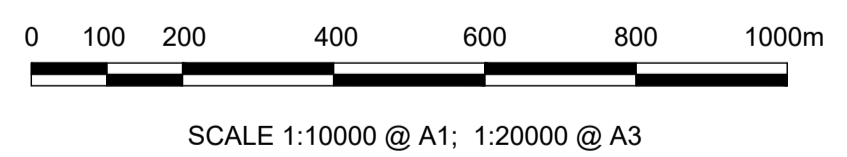
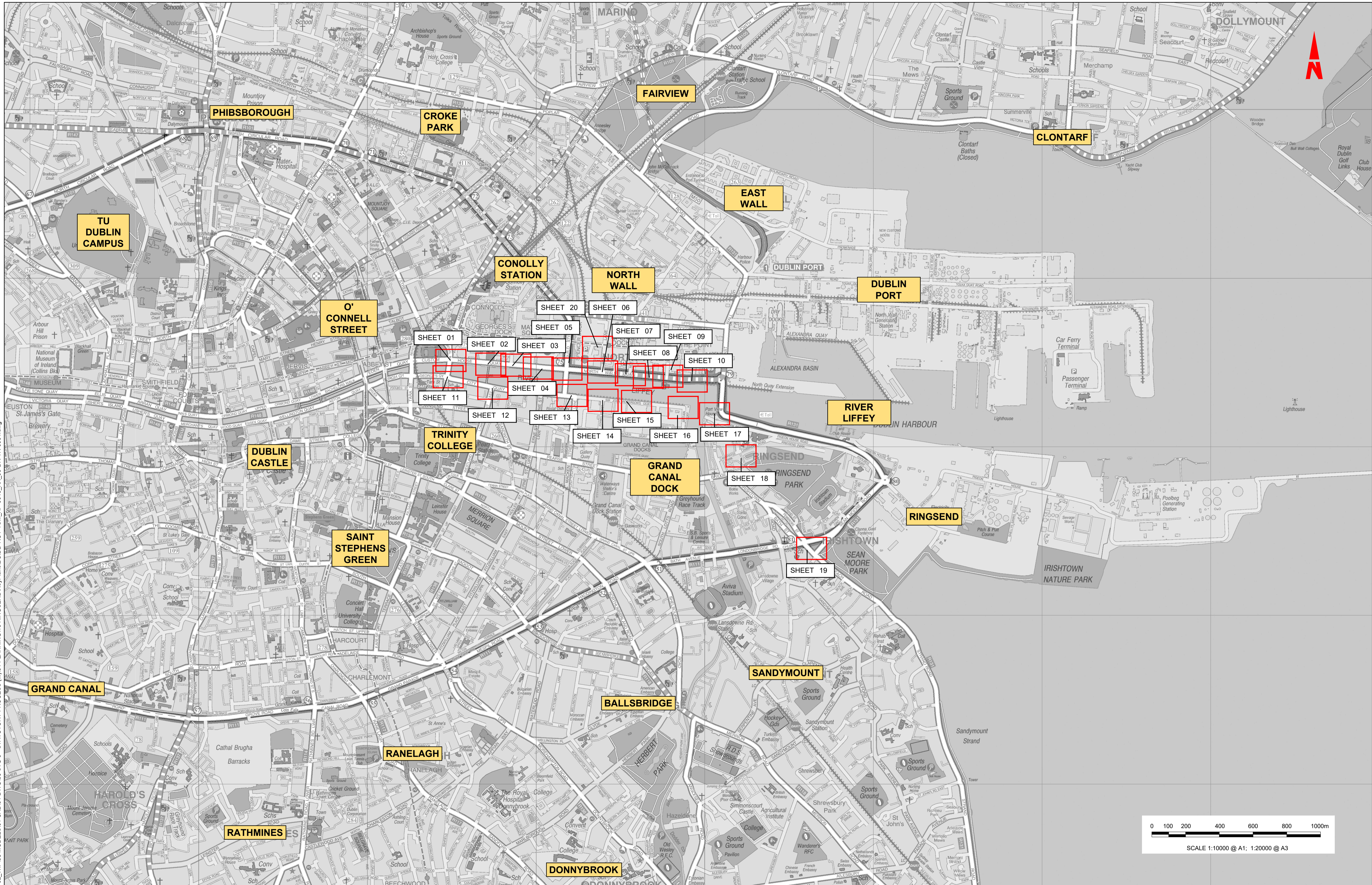


Rev	Date	Drm	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUE FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer ROD R. OUGHAN & O'DONOVAN TYP SA		
Date MAR 2023	Scale NTS @ A1 NTS @ A3	Drawn CG	Checked EOC	Approved SMG
Programme Code BCIDD	Originator Code ROT	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN COVER SHEET			
Drawing File Name BCIDD-ROT-TSM_IX-0016_XX_00-DR-TR-0001	Sheet Number 01 of 01	Status A	Rev M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



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

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

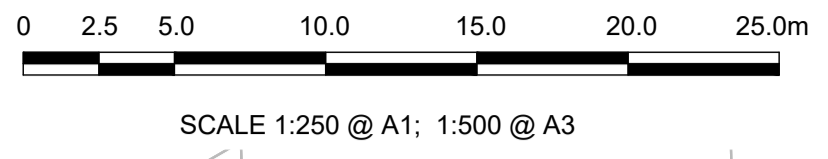
Project Ireland 2040
 Building Ireland's Future

Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	DS	EOC	SMG	ISSUE FOR PHASE 4: PLANNING

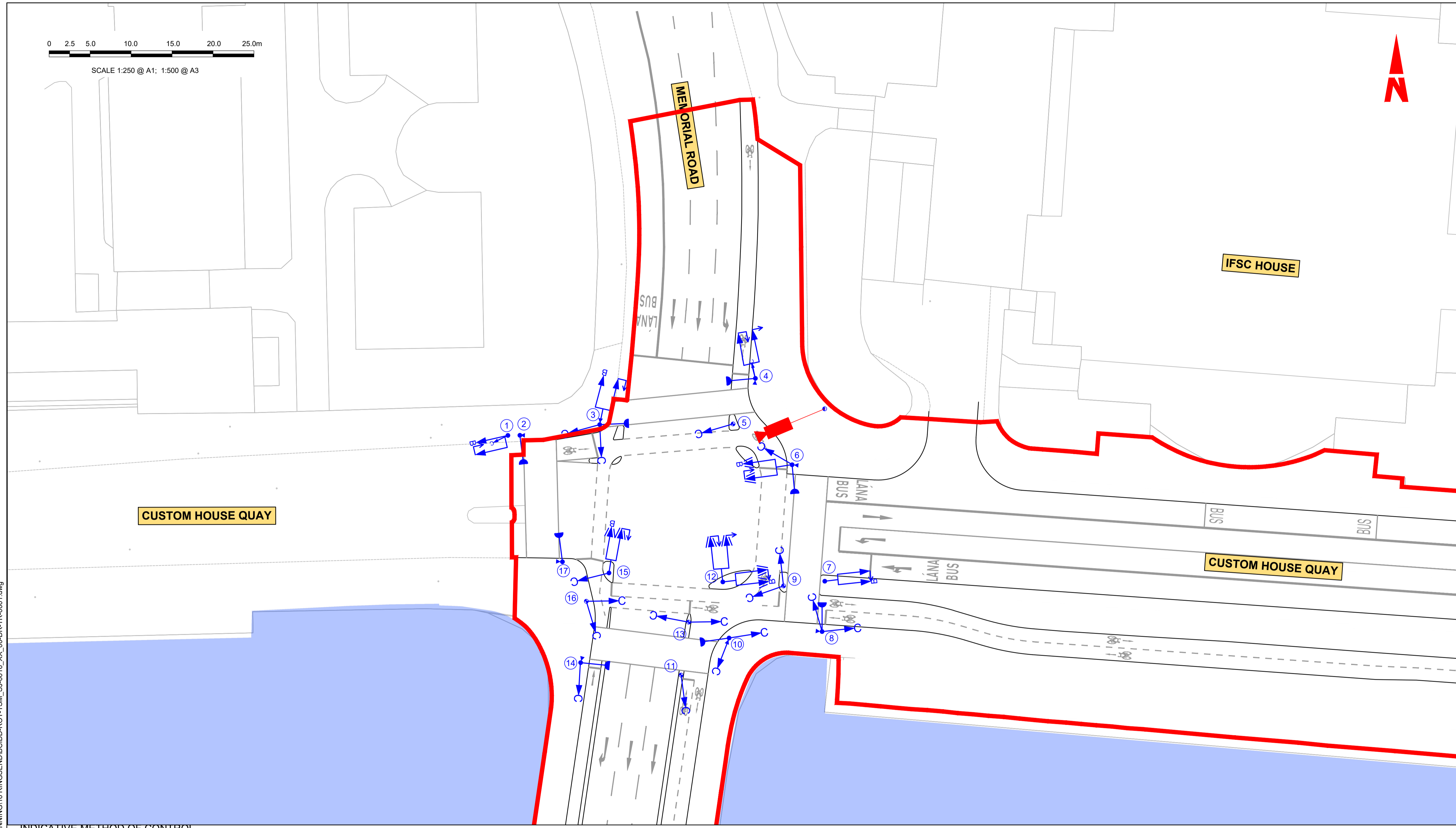
Client		Engineering Designer		Programme Title	
NTA Udárás Náisiúnta Iompair National Transport Authority		CIROD TYPSA		BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Date	Scale	Drawn	Checked	Approved	Drawing Title
MAR 2023	1:10,000 @ A1 1:20,000 @ A3	DS	EOC	SMG	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN KEYPLAN
Programme Code	Originator Code	QMS Code	Sheet Number	Status	Rev
BCIDD	ROT		01 of 01	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

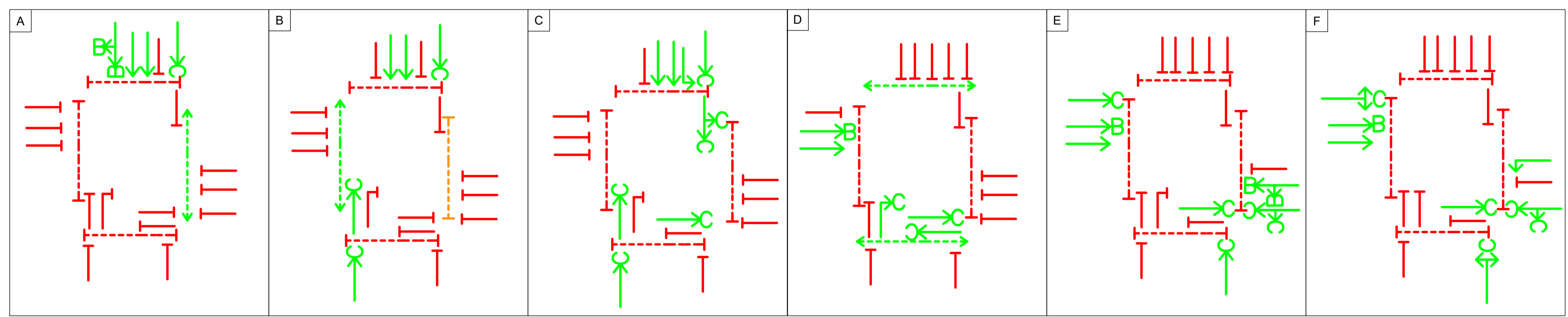
\\oddp\p\j\2019\17117-02_WIP\08 MODELS\01 CAD\01 PLANNING\16 RINGSEND\KeyPlans\BCIDD-ROT-TSM_KP-0016_XX_00-DR-TR-0001.dwg



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



Disclaimer

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

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

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

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

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

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



Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

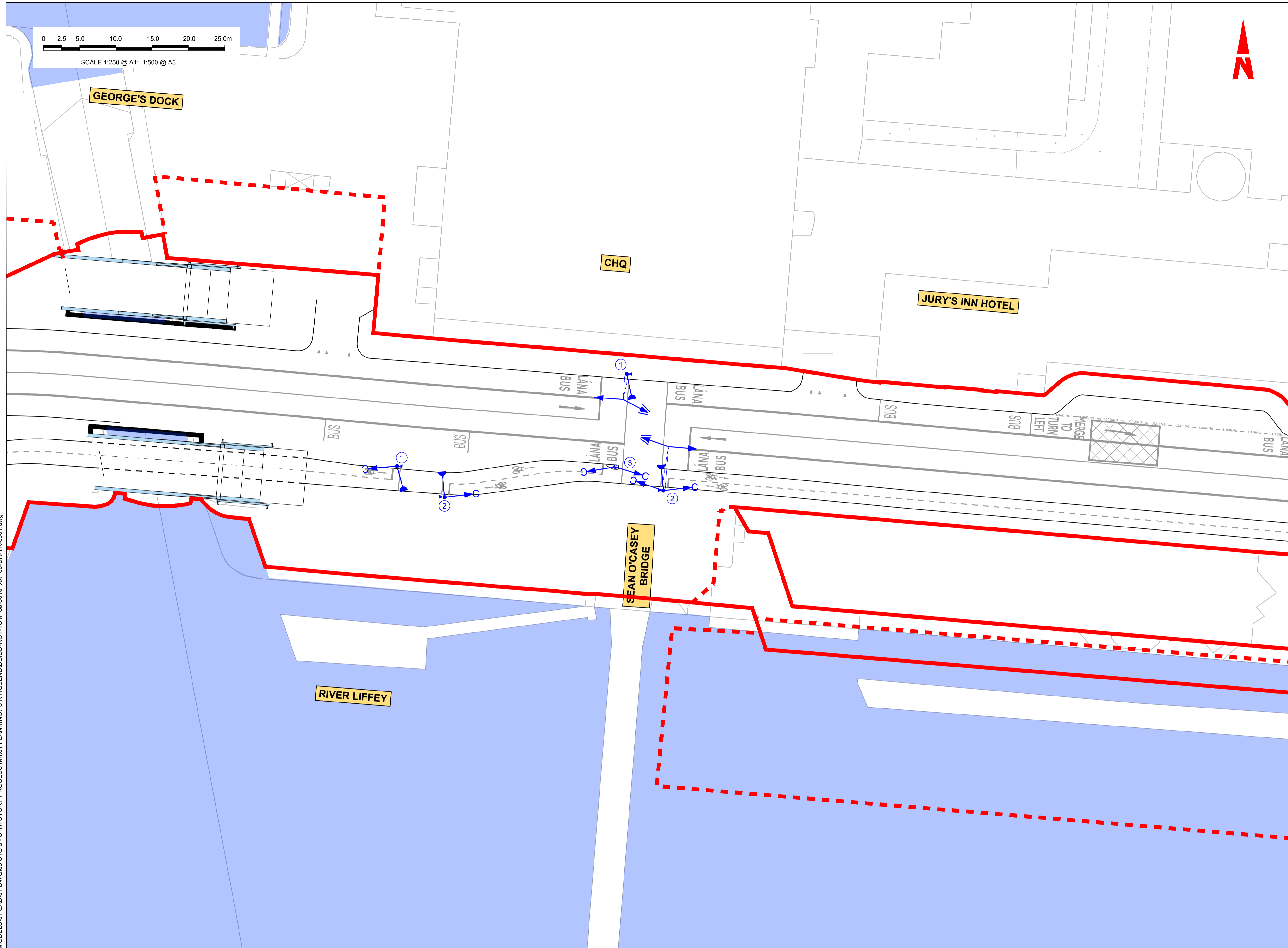
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN CUSTOM HOUSE QUAY / MEMORIAL BRIDGE				
Drawing File Name	Sheet Number	Status	Rev	
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001	01 of 20	A	M01	

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

J:\2019\191711917-02_WIP\08 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg



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



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
 - RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
 - TRAFFIC SIGNAL EQUIPMENT:**
 - POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
 - GENERAL:**
 - SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

J:\2019\1917117-02_WIP\08 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

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

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

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



Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

 Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer TYPISA		
Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN CHQ PEDESTRIAN CROSSING			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0002	02 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

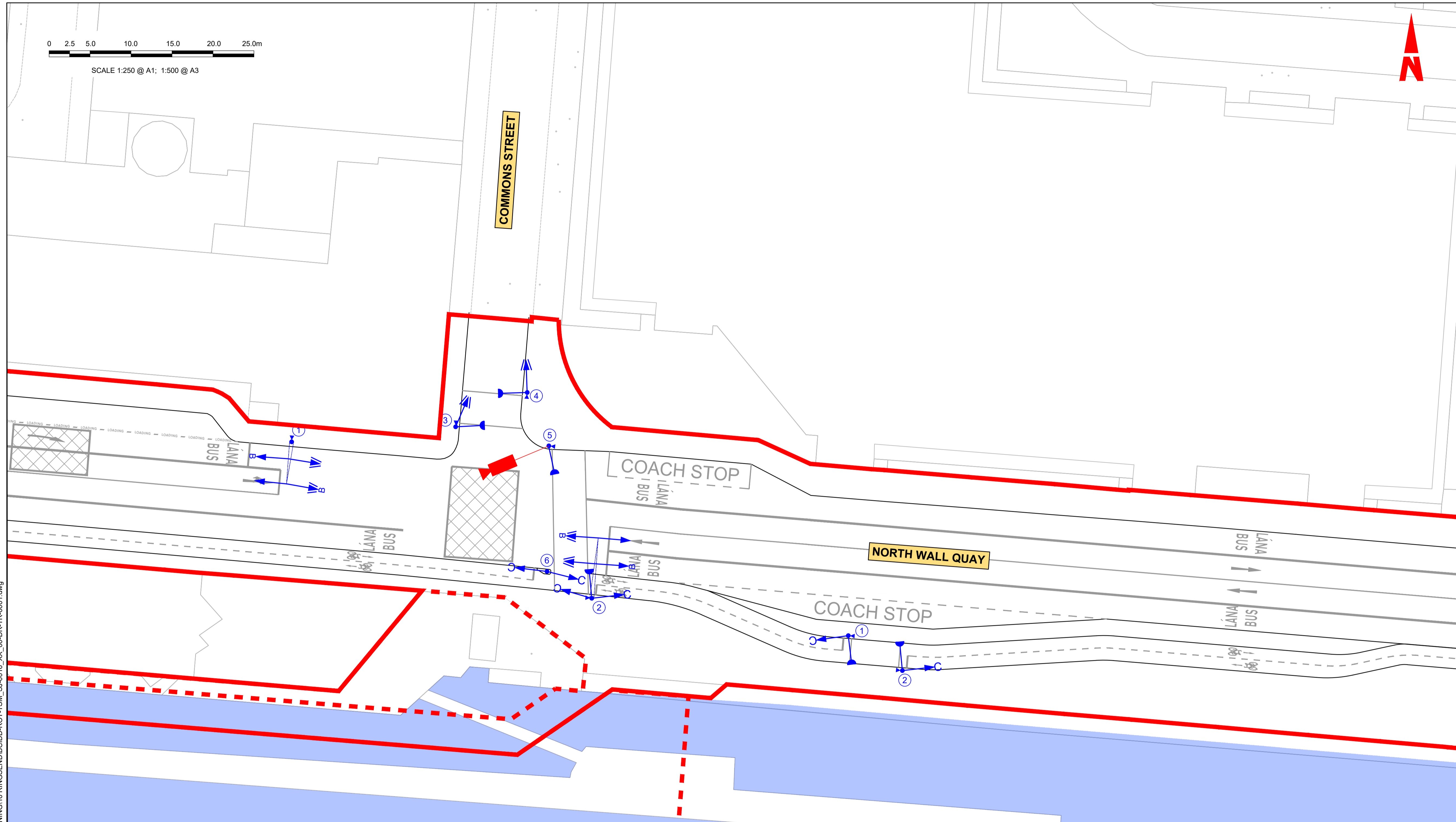
0 2.5 5.0 10.0 15.0 20.0 25.0m

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

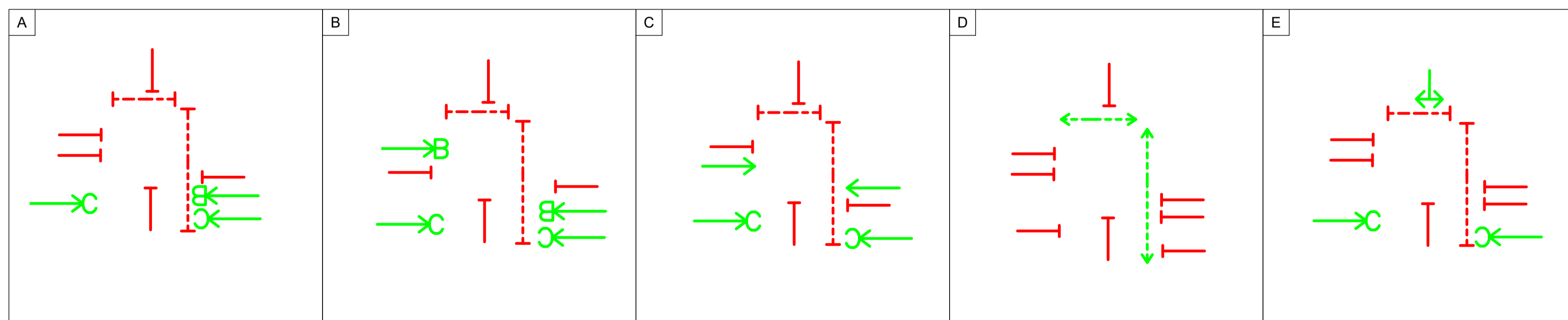


LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



J:\2019\1917117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

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



Rev	Date	Dwn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
CIROD
 TYPSA

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG

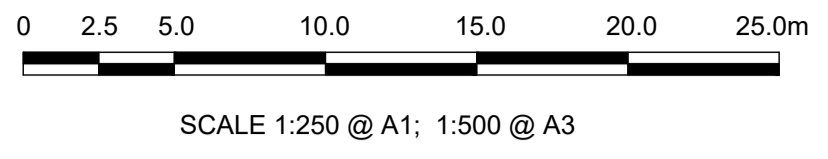
Programme Code: BCIDD
 Originator Code: ROT
 QMS Code:

Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
 RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME
 JUNCTION SYSTEM DESIGN
 COMMONS STREET / CUSTOM HOUSE QUAY

Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0003	03 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



EXCISE WALK

NORTH WALL QUAY

RIVER LIFFEY

- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

J:\2019\191717-02_WIP\08 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

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

Project Ireland 2040
 Building Ireland's Future

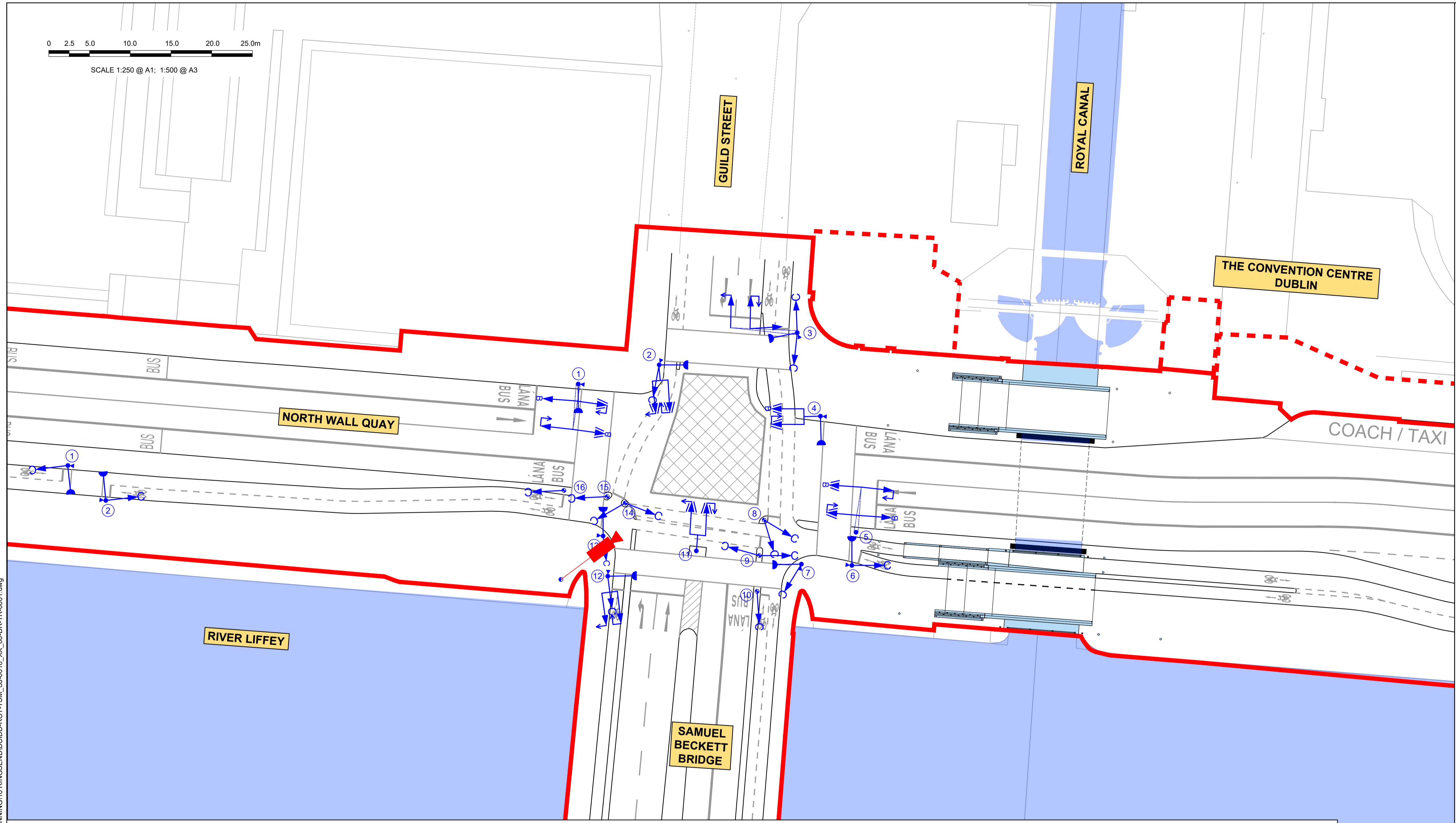
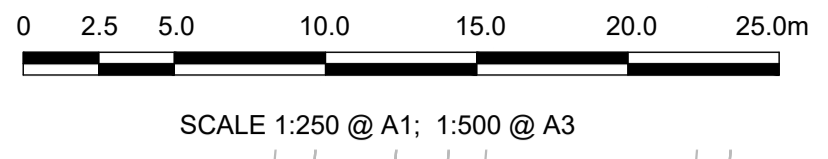
Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Client		Engineering Designer			Programme Title	
 Údarás Náisiúnta Iompair National Transport Authority		 TYPSA			BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Date	Scale	Drawn	Checked	Approved	Drawing Title	
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN EXCISE WALK TOUCAN CROSSING	
Programme Code	Originator Code	QMS Code			Drawing File Name	Sheet Number
BCIDD	ROT				BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0004	04 of 20
					Status	Rev
					A	M01

Client		Engineering Designer			Programme Title	
 Údarás Náisiúnta Iompair National Transport Authority		 TYPSA			BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Date	Scale	Drawn	Checked	Approved	Drawing Title	
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN EXCISE WALK TOUCAN CROSSING	
Programme Code	Originator Code	QMS Code			Drawing File Name	Sheet Number
BCIDD	ROT				BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0004	04 of 20
					Status	Rev
					A	M01

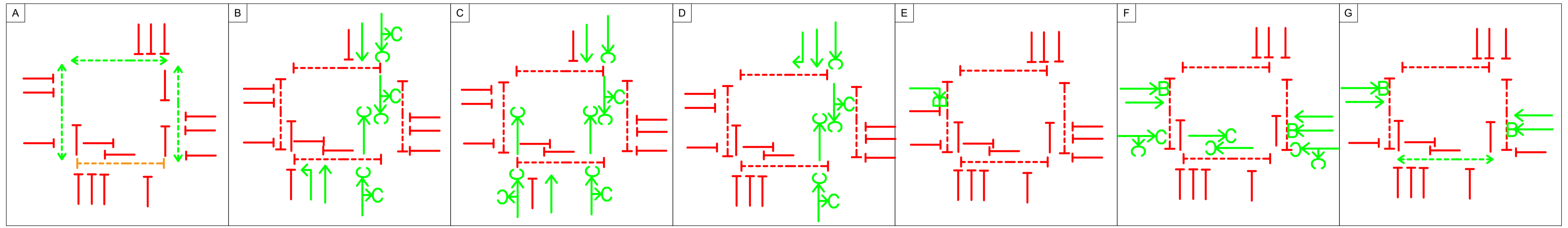
Client		Engineering Designer			Programme Title	
 Údarás Náisiúnta Iompair National Transport Authority		 TYPSA			BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Date	Scale	Drawn	Checked	Approved	Drawing Title	
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN EXCISE WALK TOUCAN CROSSING	
Programme Code	Originator Code	QMS Code			Drawing File Name	Sheet Number
BCIDD	ROT				BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0004	04 of 20
					Status	Rev
					A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



J:\2019\19117117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

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

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

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



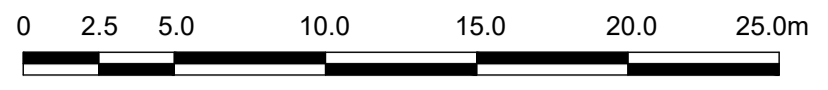
Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
CIROD
 TYPSA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN GUILD STREET / NORTH WALL QUAY	
Drawing File Name BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0005	Sheet Number 05 of 20
Status A	Rev M01

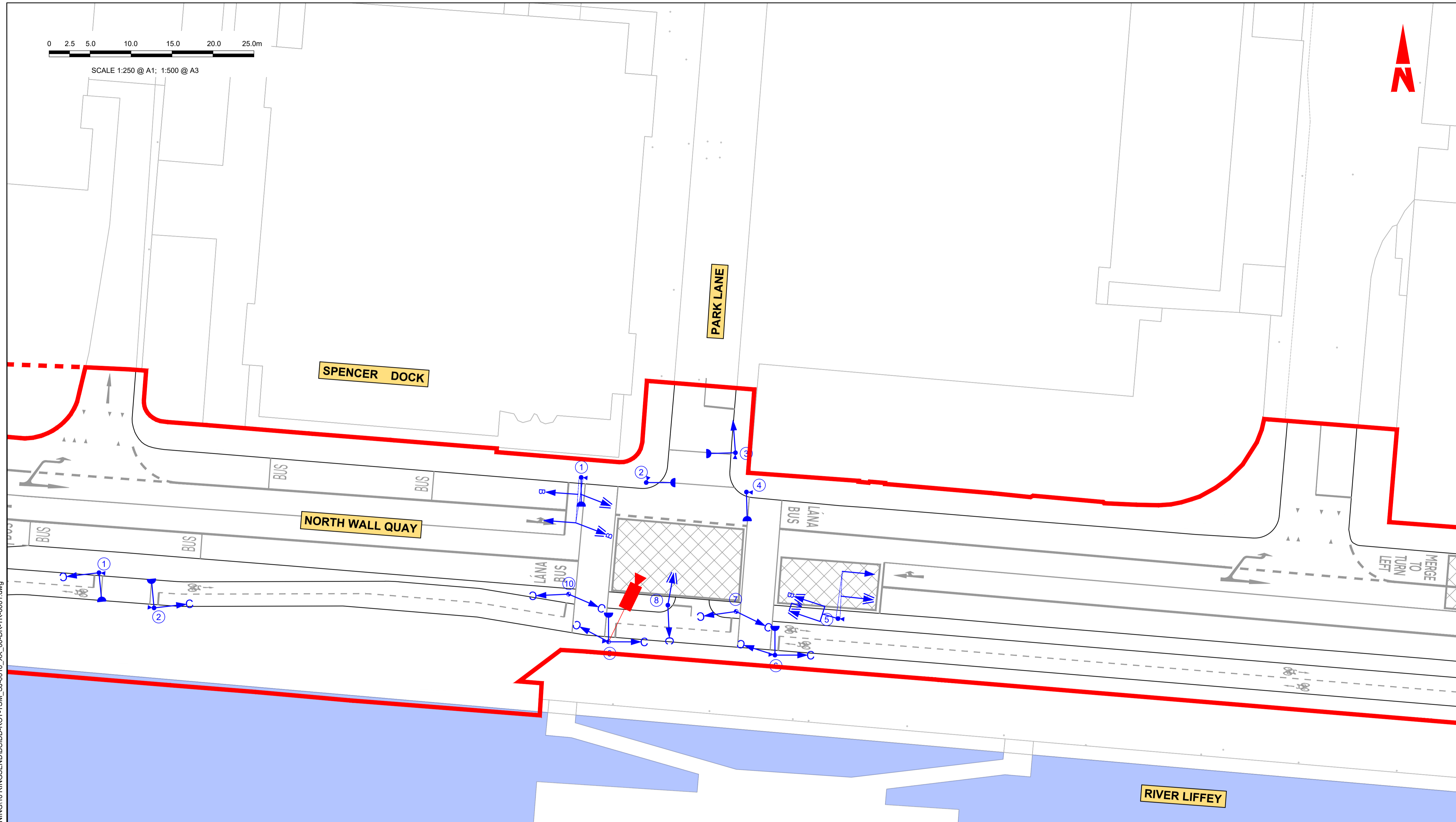
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



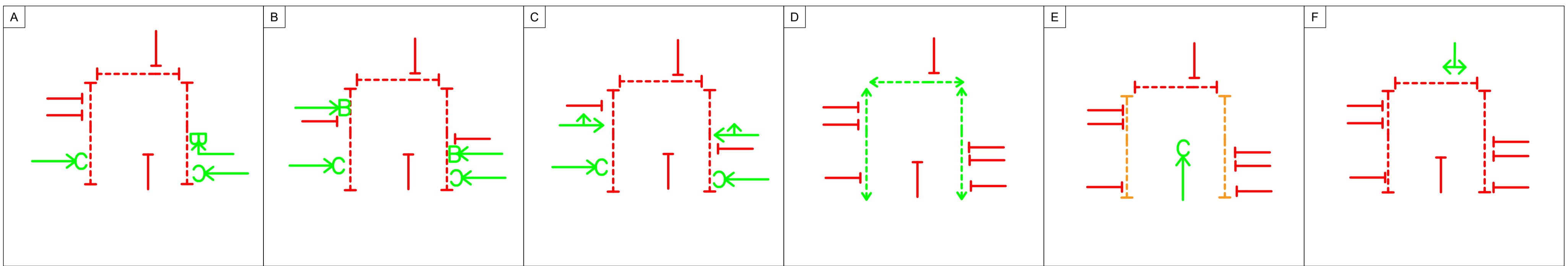
SCALE 1:250 @ A1; 1:500 @ A3



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



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

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

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



Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
CIROD
 TYPSA

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG

Programme Code: BCIDD
 Originator Code: ROT
 QMS Code:

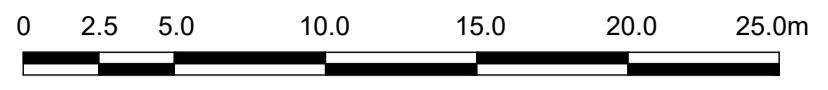
Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
 RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME
 JUNCTION SYSTEM DESIGN
 PARK LANE / NORTH WALL QUAY

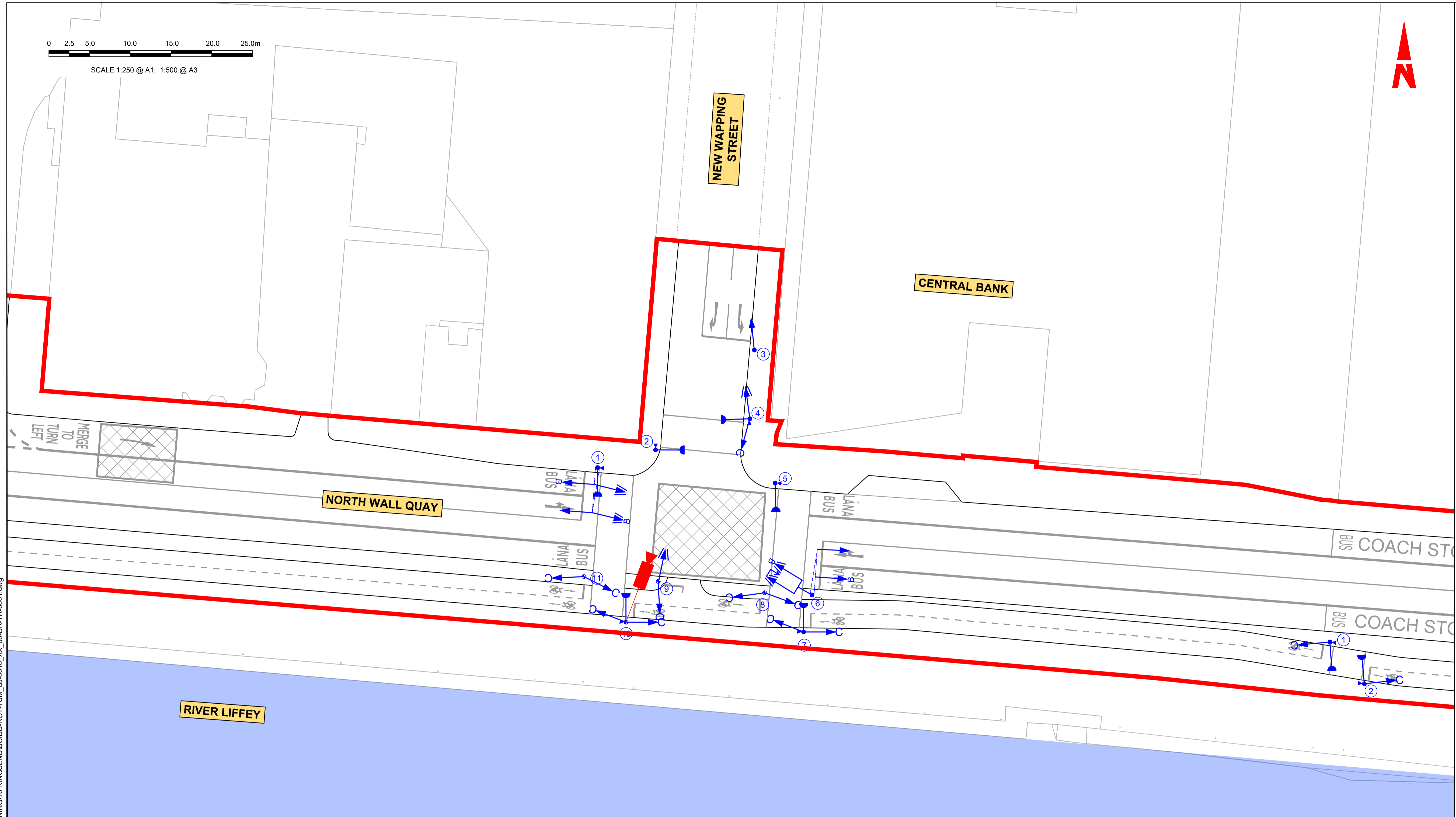
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0006	06 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

J:\2019\1917117-02_WIP\08 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

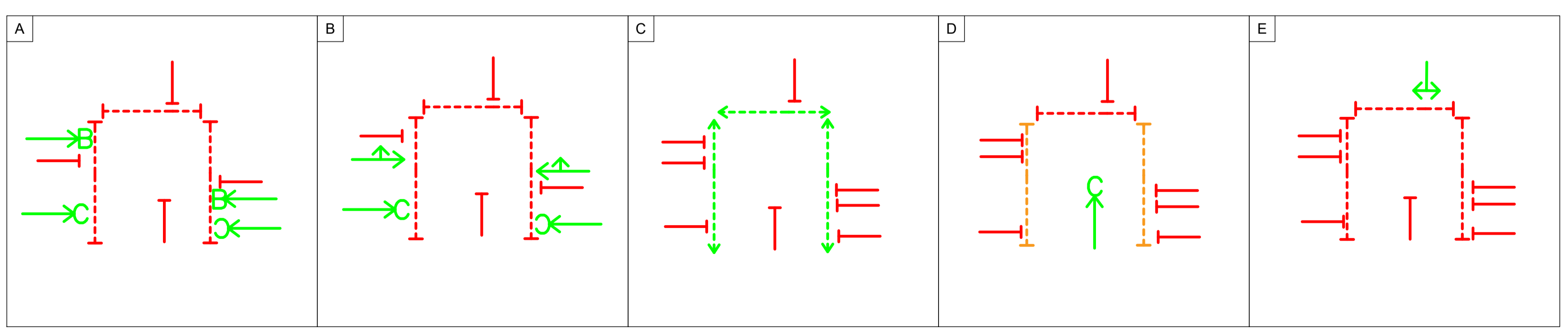


SCALE 1:250 @ A1; 1:500 @ A3



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



J:\2019\1917117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

Disclaimer

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

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

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

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

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

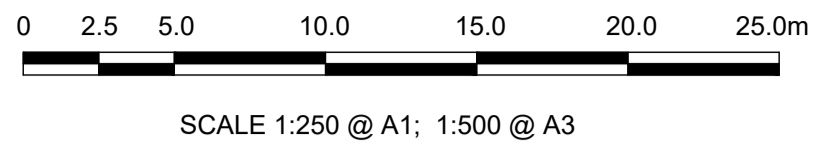


Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

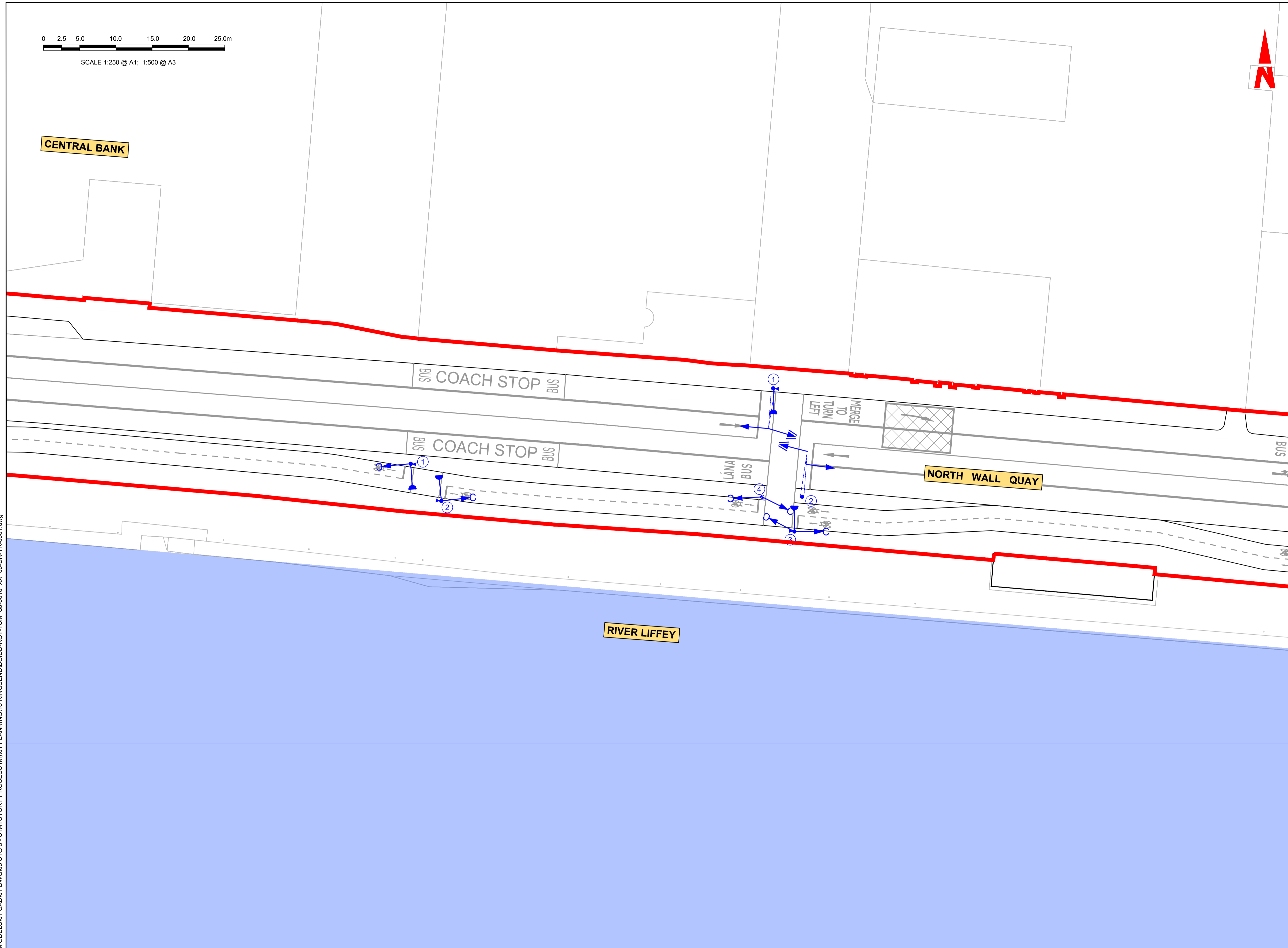
<p>Údarás Náisiúnta Iompair National Transport Authority</p>		<p>Engineering Designer</p>		
Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

<p>Programme Title</p> <p>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</p>			
<p>Drawing Title</p> <p>RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN NEW WAPPING STREET / NORTH WALL QUAY</p>			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0007	07 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



J:\2019\1917117-02_WIP\08 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

Disclaimer

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

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

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

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

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

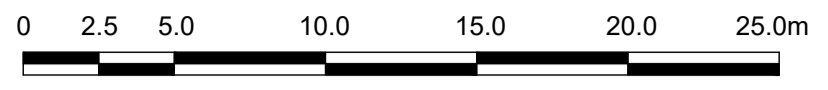
Rev	Date	Dwn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SLATE STREET PEDESTRIAN CROSSING			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0008	08 of 20	A	M01



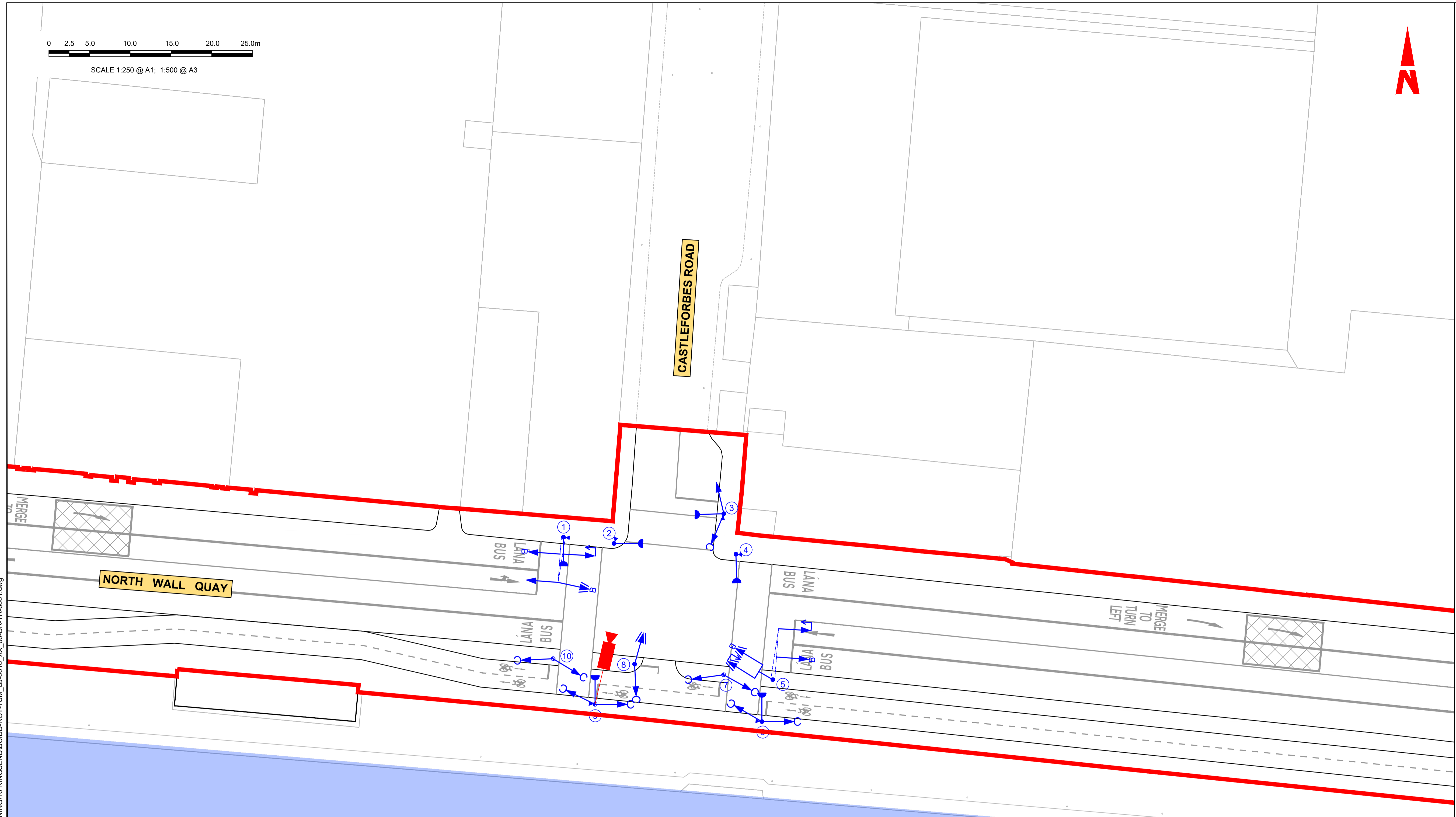
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



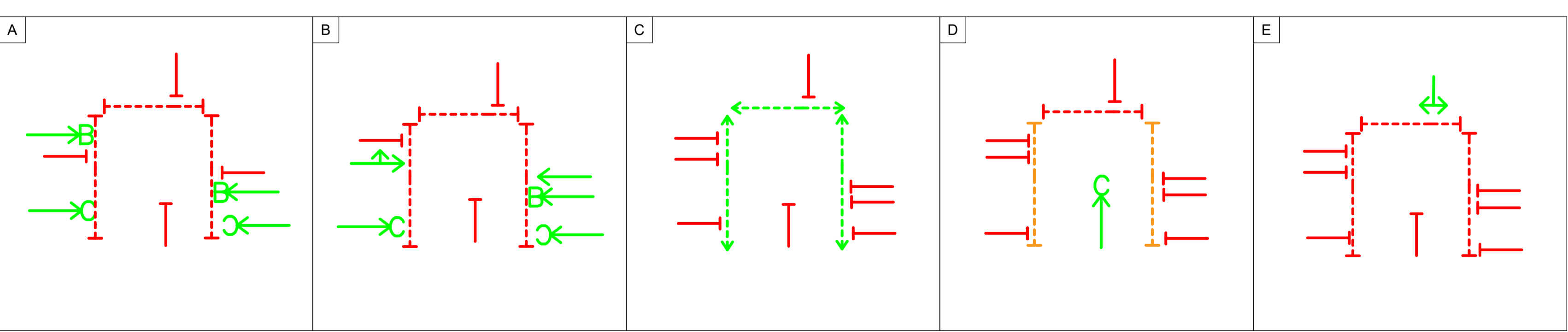
SCALE 1:250 @ A1; 1:500 @ A3



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



J:\2019\1917117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

Disclaimer

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

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

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

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

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

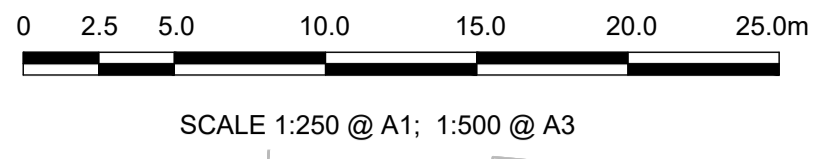


Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

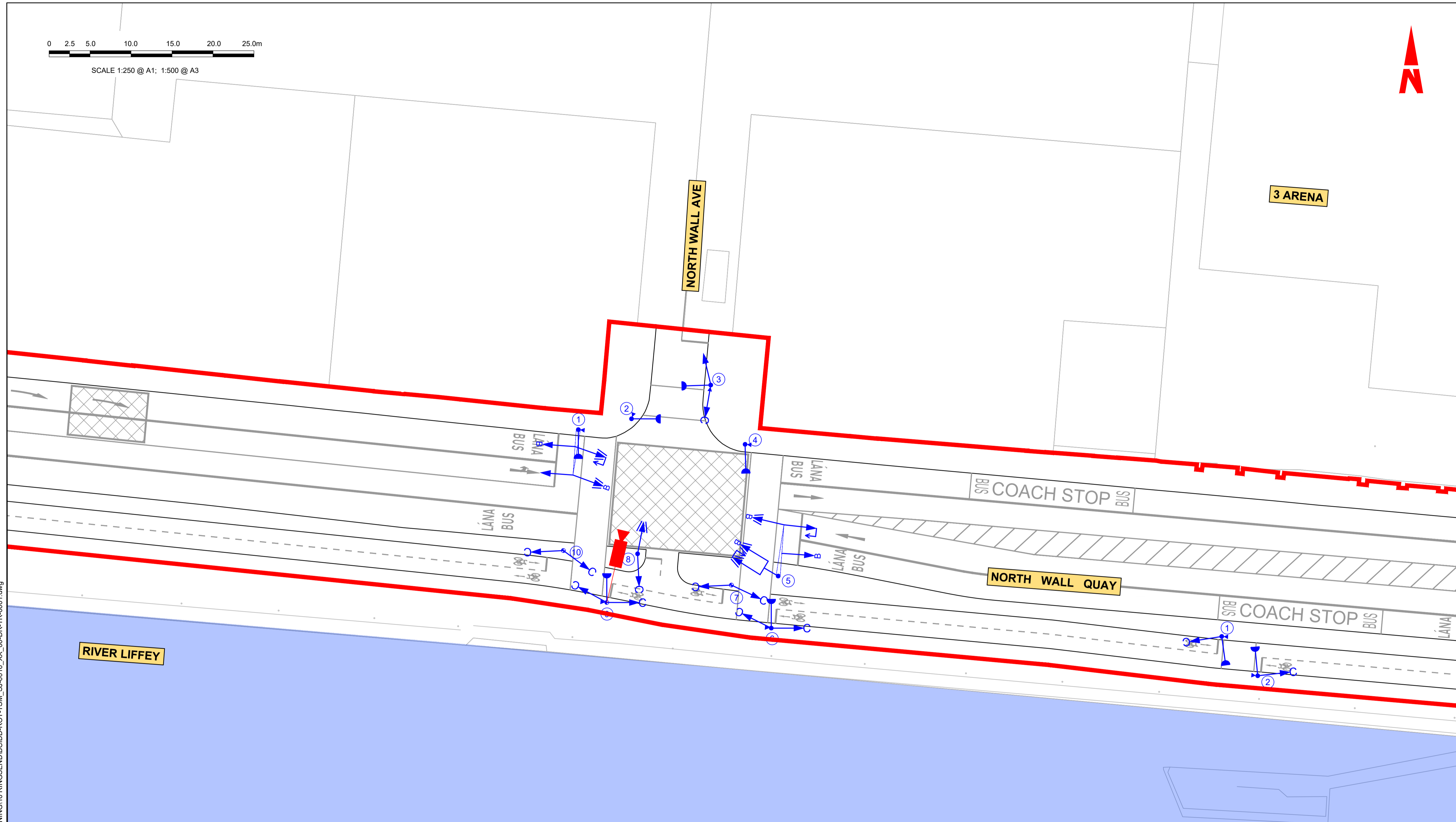
<p>Údarás Náisiúnta Iompair National Transport Authority</p>		<p>Engineering Designer</p>		
Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

<p>Programme Title</p> <p>BUSCONNECTS DUBLIN</p> <p>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</p>			
<p>Drawing Title</p> <p>RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN CASTLEFORBES STREET / NORTH WALL QUAY</p>			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0009	09 of 20	A	M01

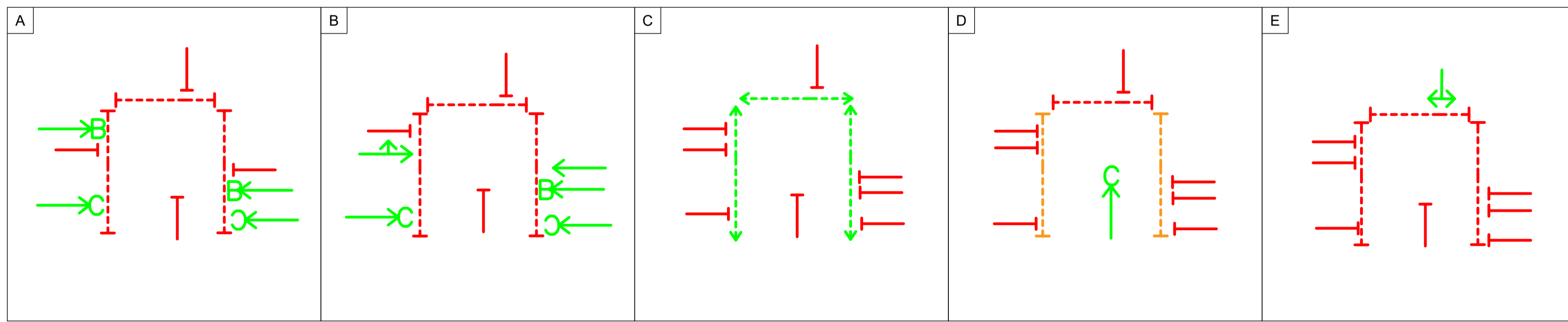
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



J:\2019\1917117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

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

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

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

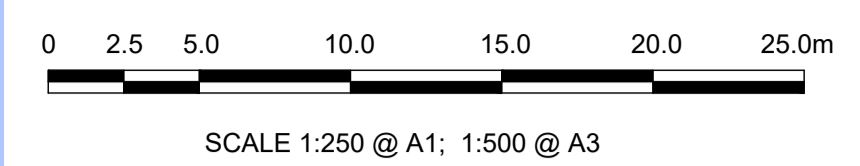


Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

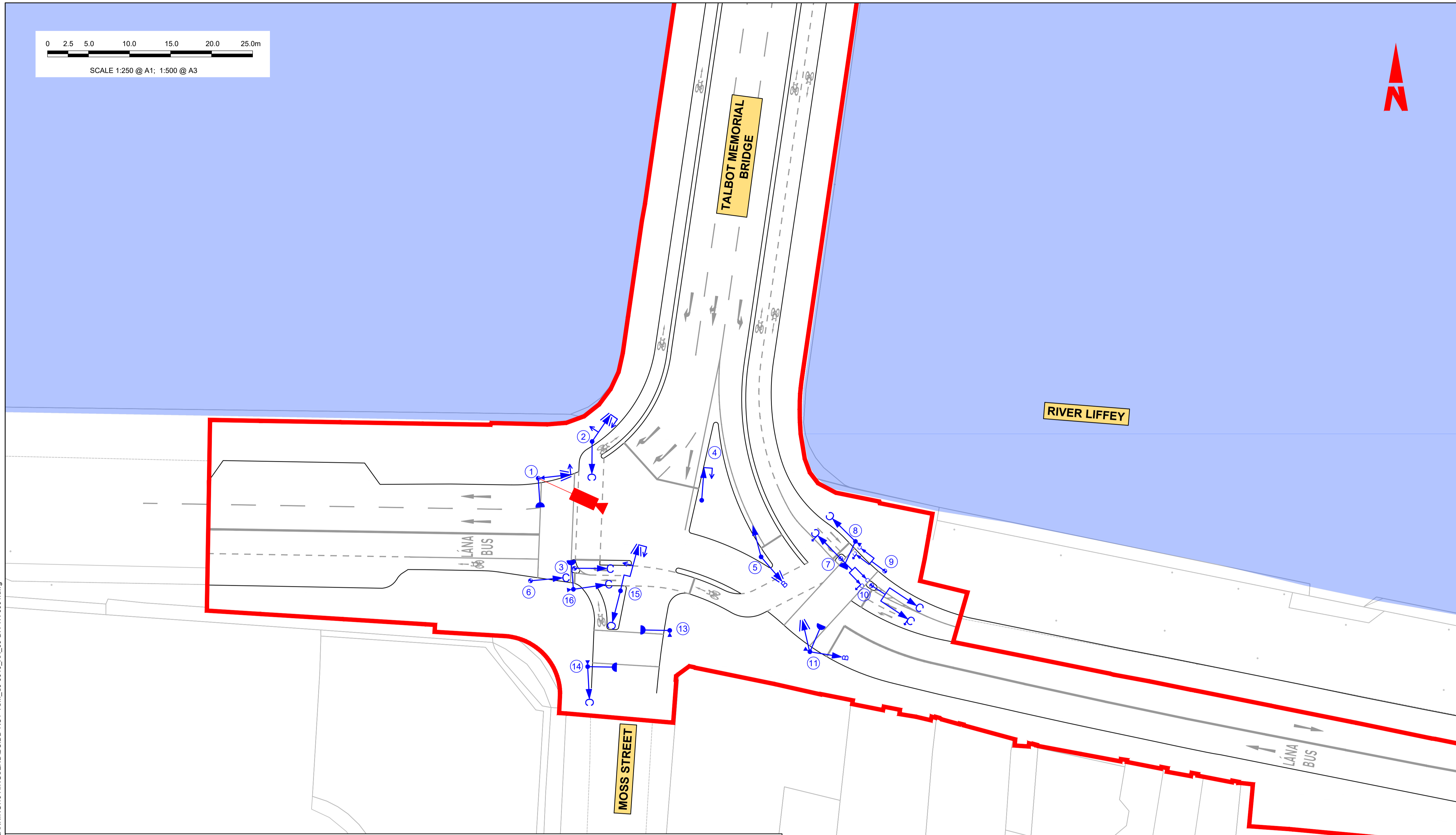
Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN NORTH WALL AVENUE / NORTH WALL QUAY			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0010	10 of 20	A	M01

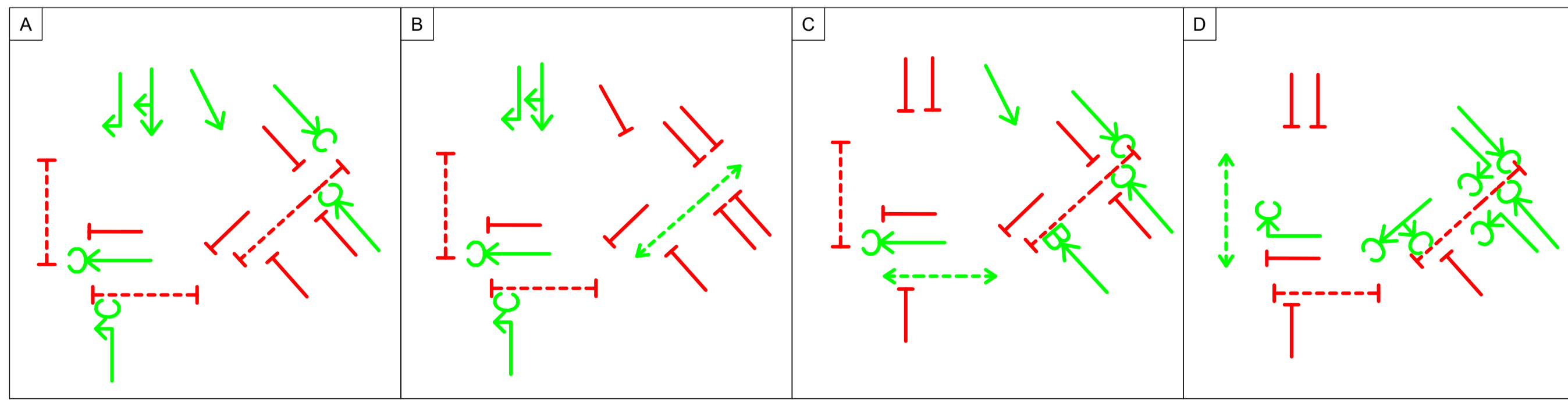
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



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

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

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



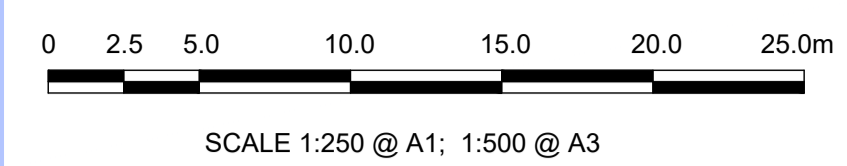
Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

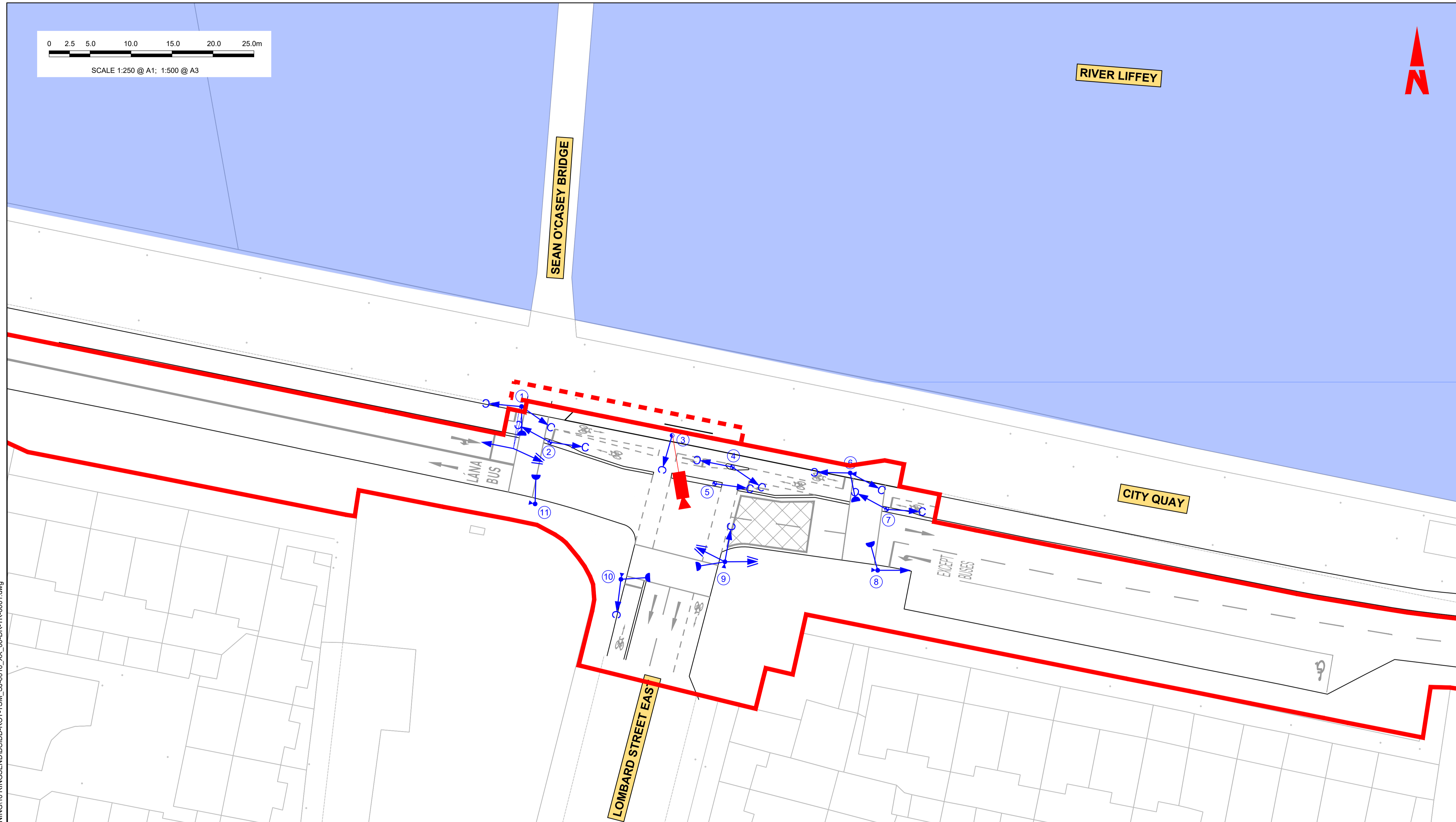
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN CITY QUAY / MEMORIAL BRIDGE			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0011	11 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

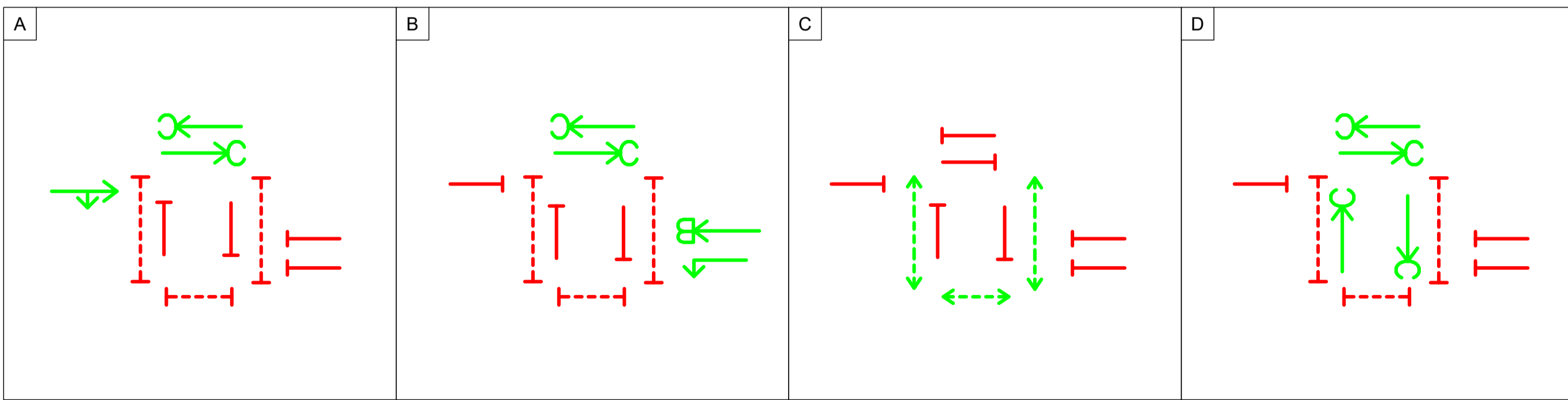
J:\2019\1917117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0011.dwg



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



Disclaimer

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

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

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

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

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



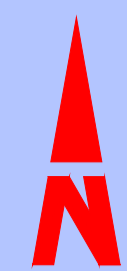
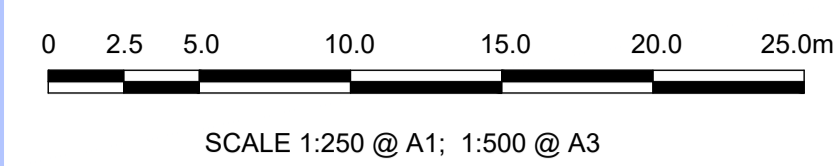
Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

		Engineering Designer 		
Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

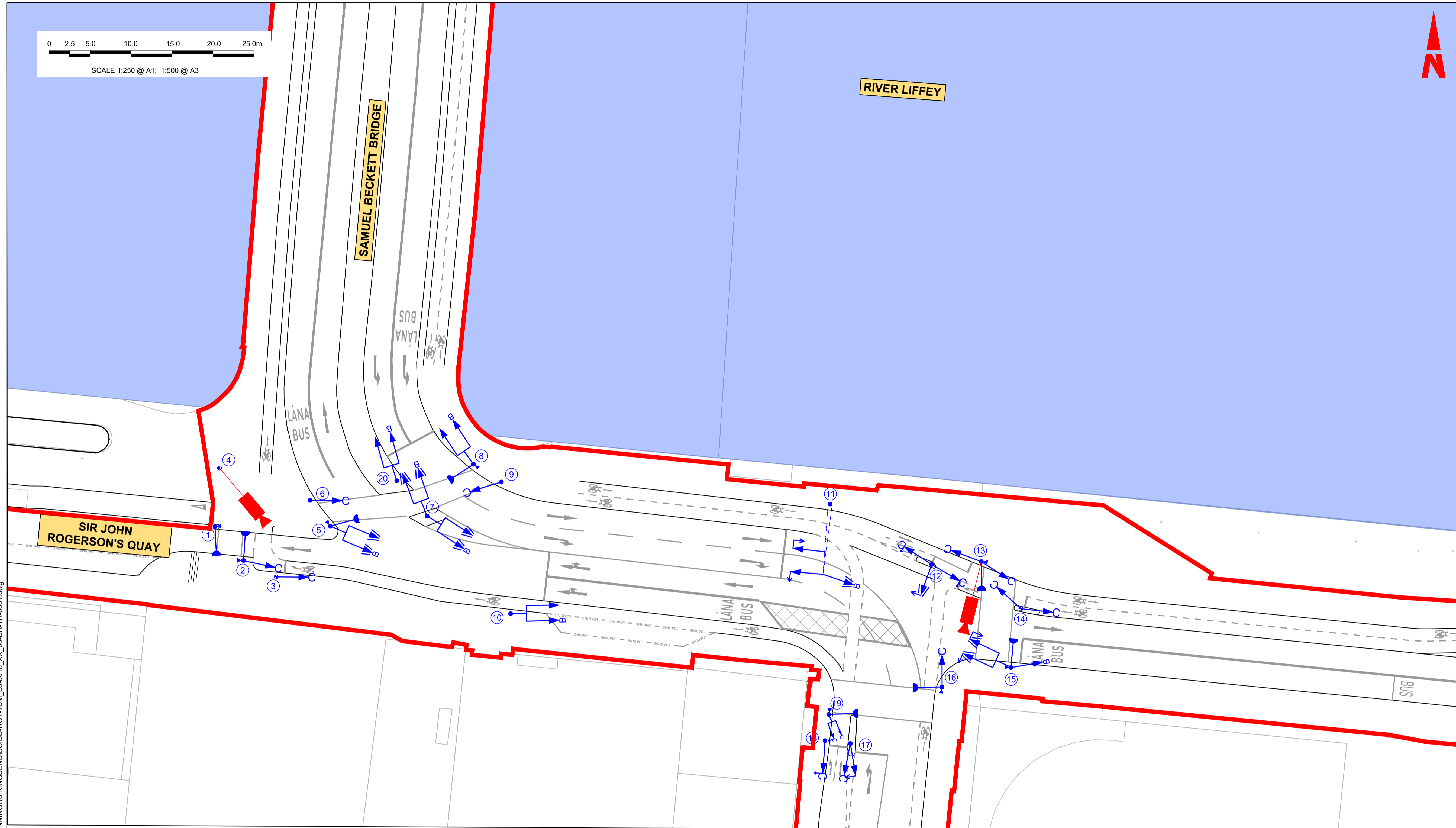
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN LOMBARD STREET / CITY QUAY			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0012	12 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

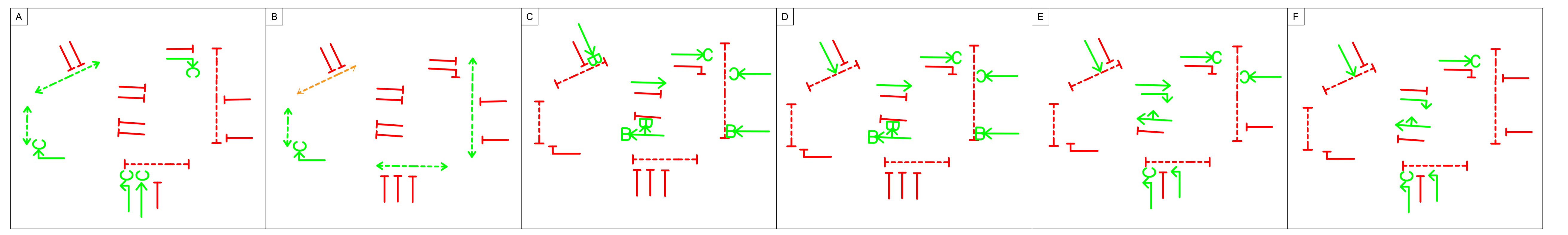
J:\2019\1917117-02_WIP\08 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-001.dwg



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



Disclaimer

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

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

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

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

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

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



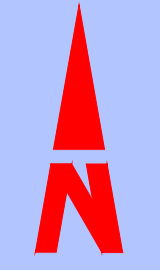
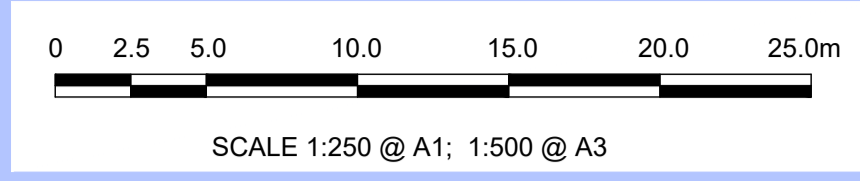
Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

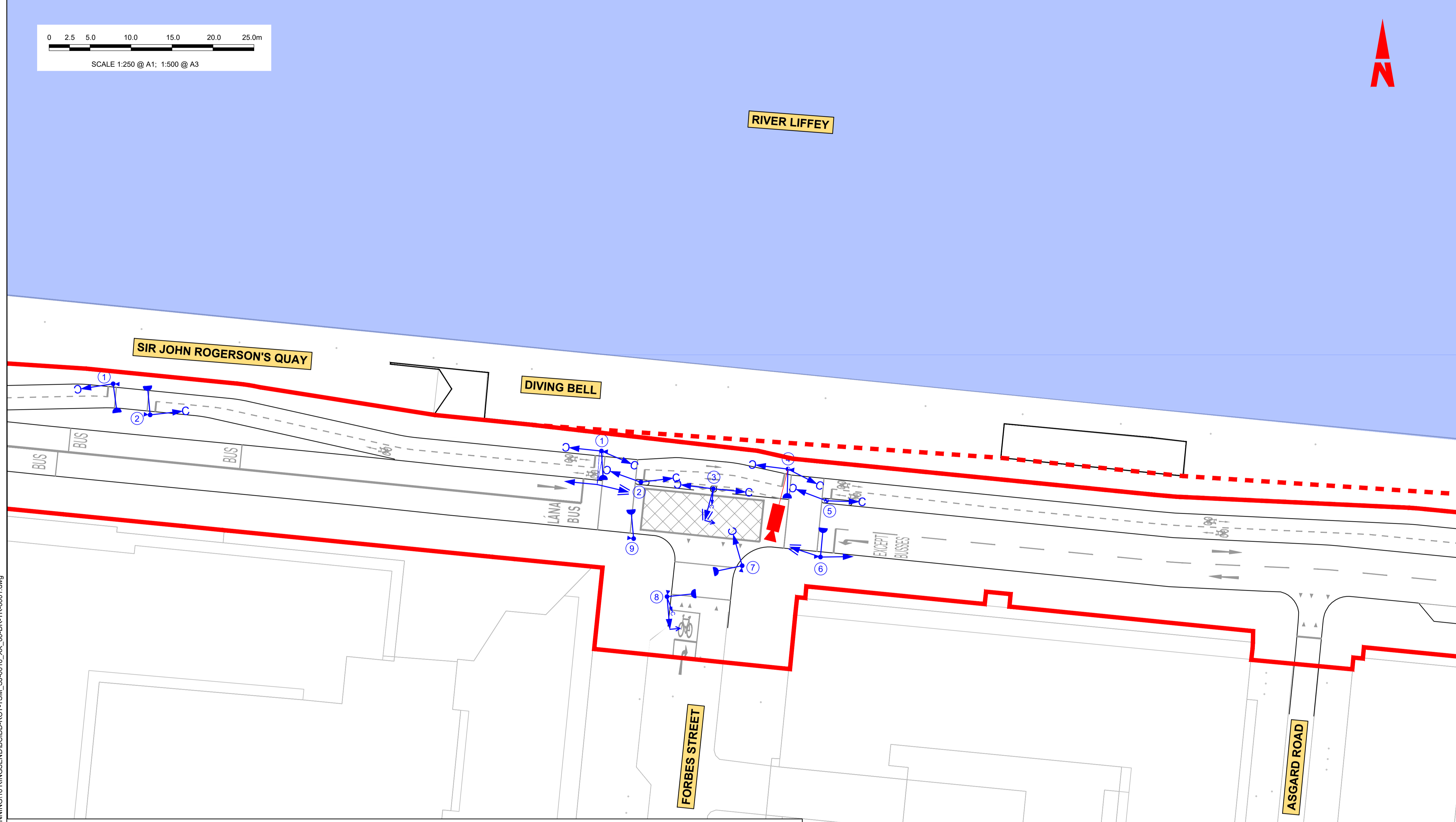
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN CARDIFF LANE / SIR JOHN ROGERSON'S QUAY			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0013	13 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

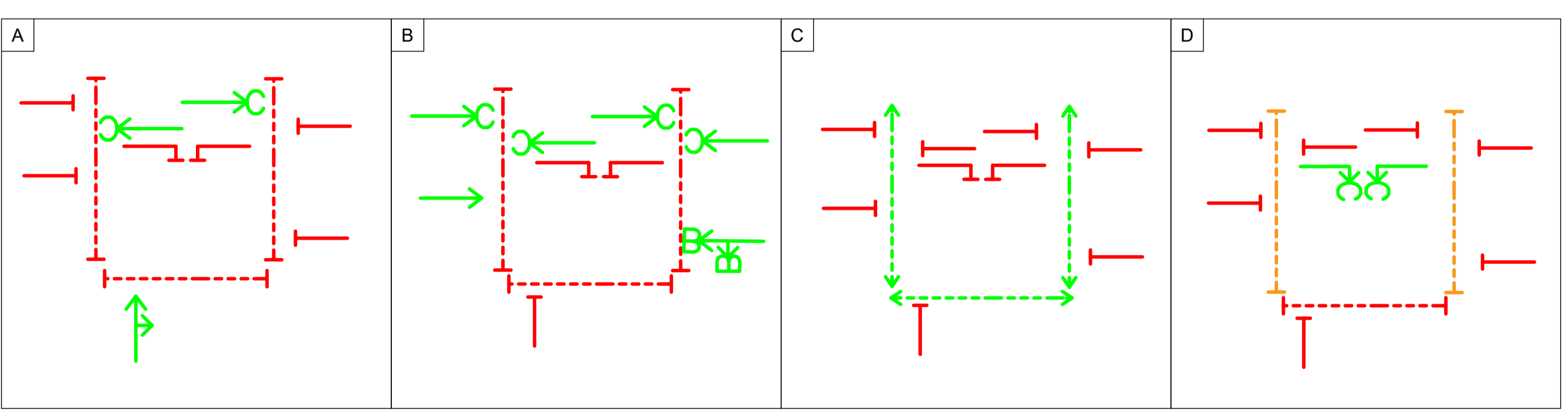
J:\2019\19117117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-001.dwg



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



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

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

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



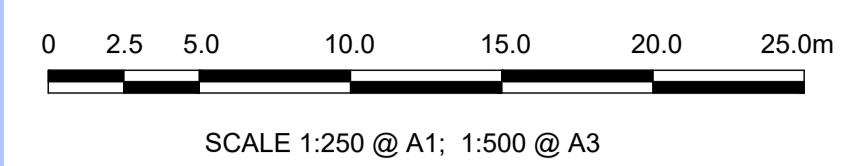
Rev	Date	Dwn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

		Engineering Designer 		
Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN FORBES STREET / SIR JOHN ROGERSON'S QUAY			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0014	14 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

J:\2019\1917117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg



RIVER LIFFEY

SIR JOHN ROGERSON'S QUAY

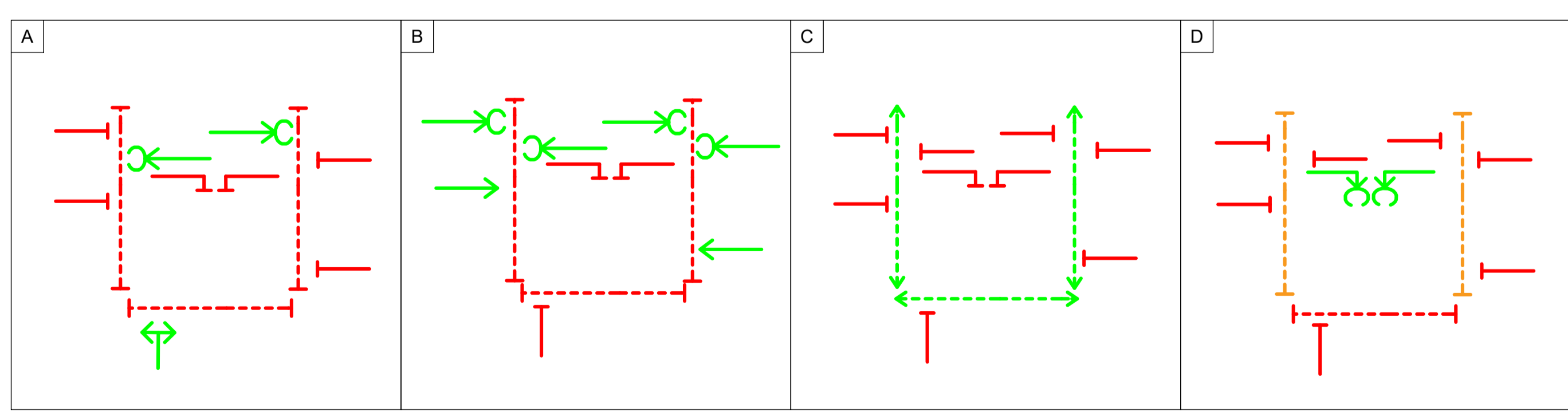
BRITAIN QUAY



LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



J:\2019\1917117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

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

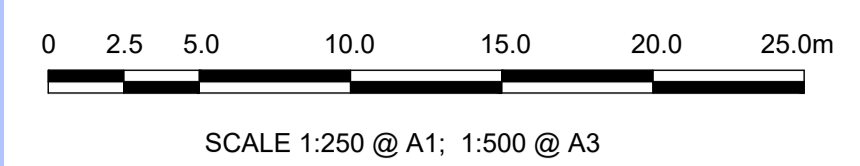


Rev	Date	Dwn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

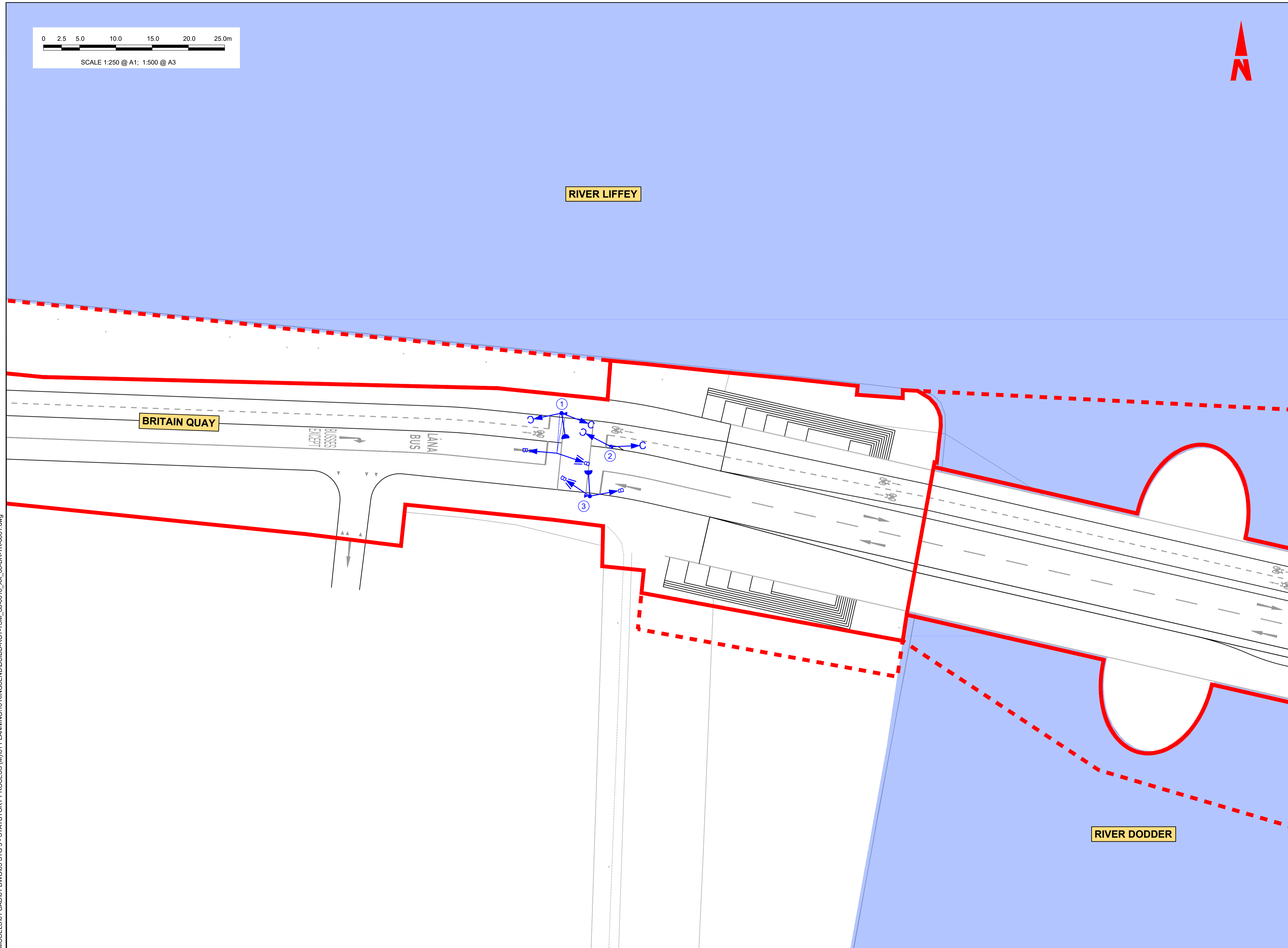
 Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer TYPSA		
Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN BLOOD STONEY ROAD / SIR JOHN ROGERSON'S QUAY			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0015	15 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



J:\2019\191717-02_WIP\08 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

Disclaimer

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

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

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

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

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

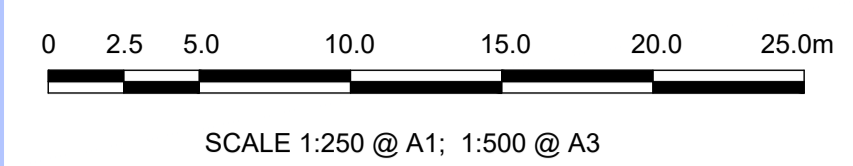
Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN DODDER PT BRIDGE PEDESTRIAN CROSSING			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0016	16 of 20	A	M01



DO NOT SCALE USE FIGURED DIMENSIONS ONLY



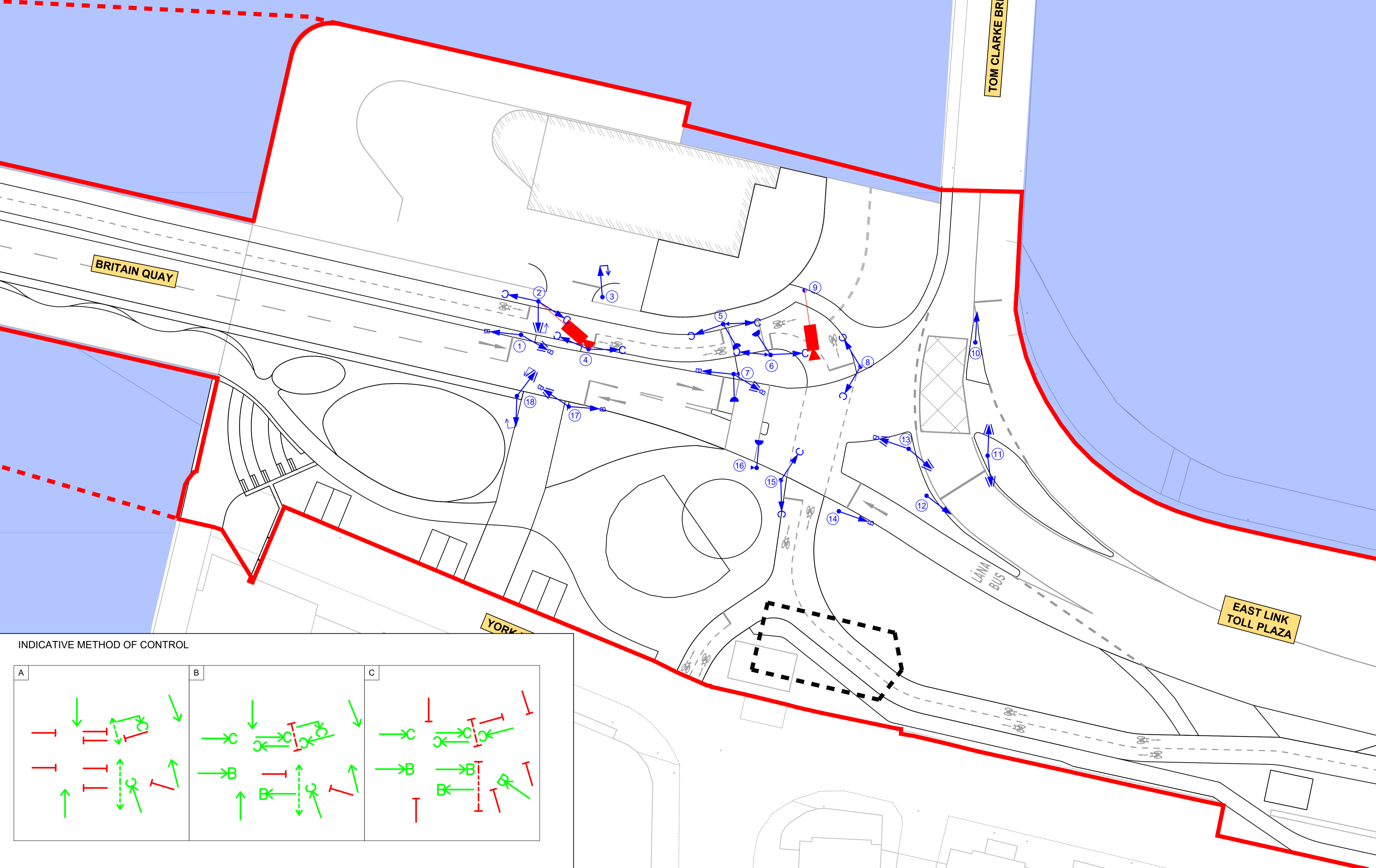
RIVER LIFFEY

TOM CLARKE BRIDGE

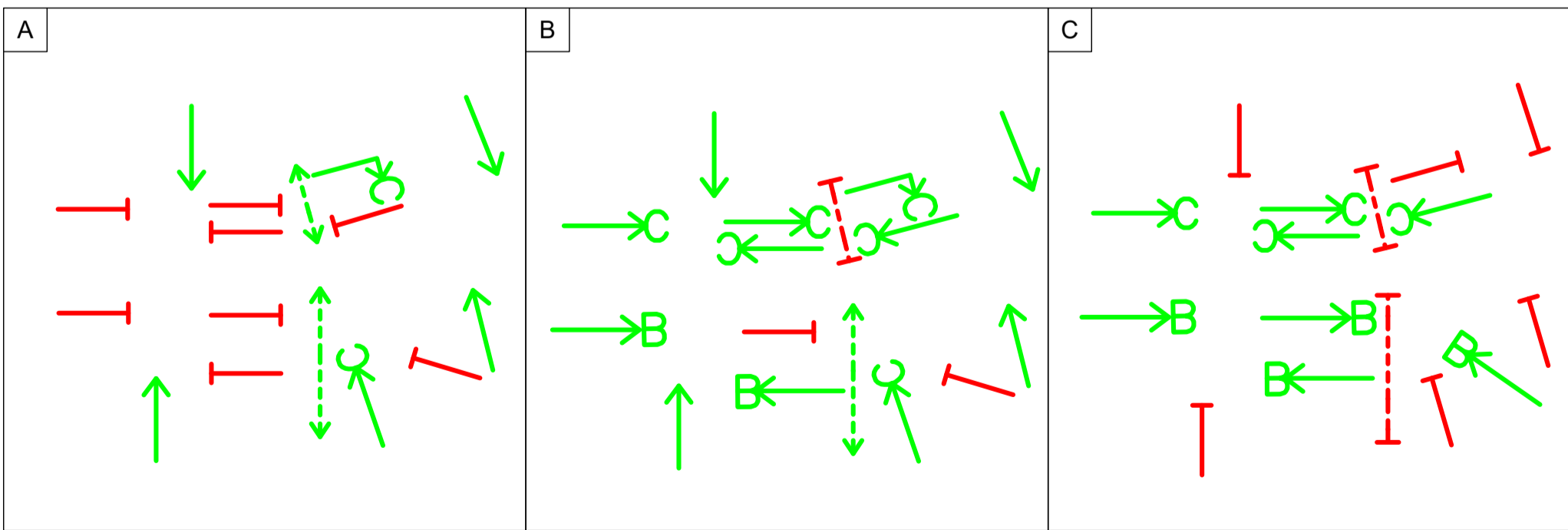


LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



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

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

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



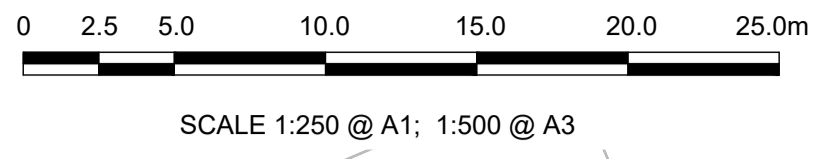
Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

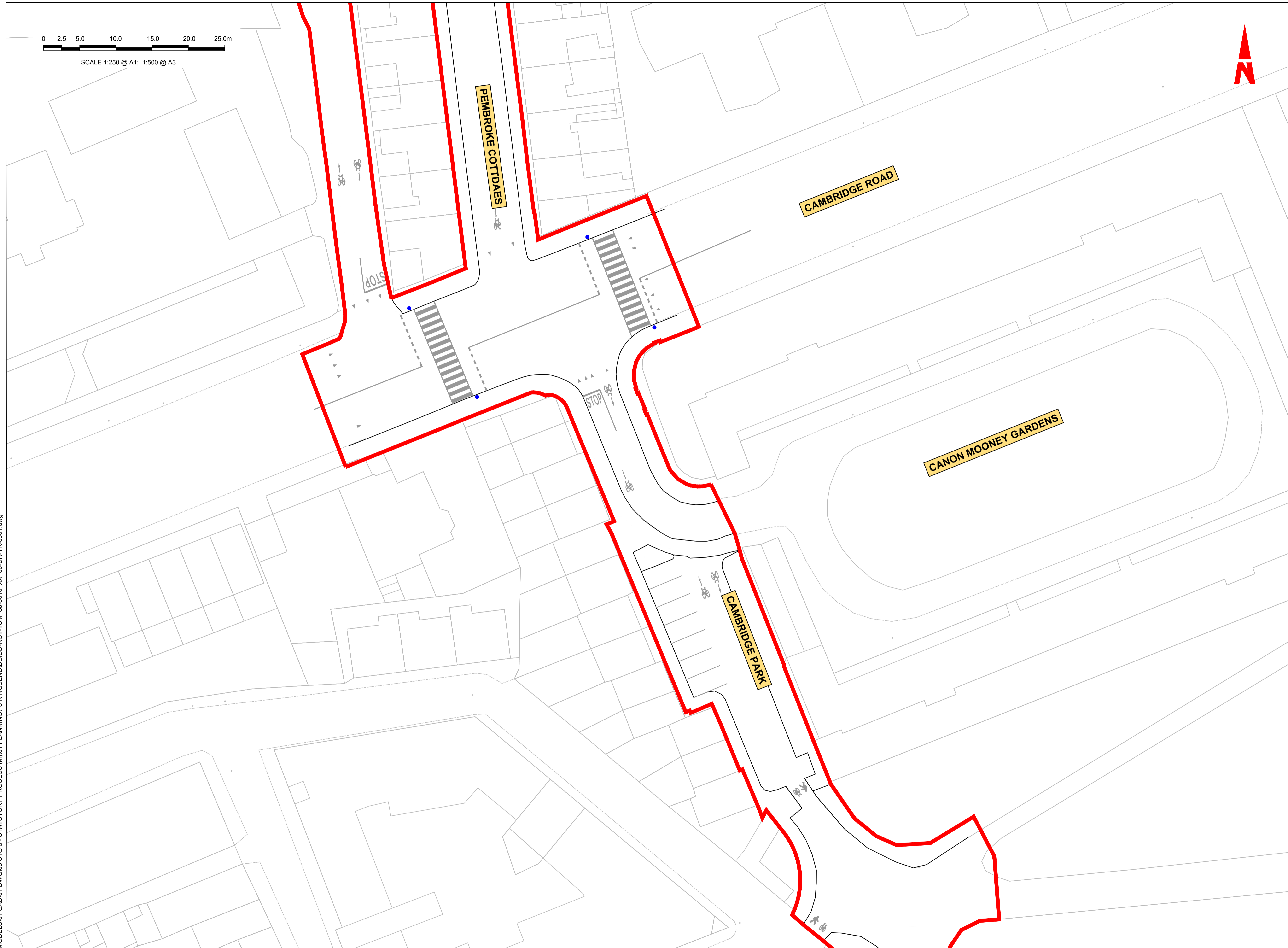
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN DODDER PT BRIDGE			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0017	17 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

J:\2019\1917117-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



J:\2019\1917117-02_WIP\08 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

Disclaimer

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

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

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

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

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

Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

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

Engineering Designer: **CIROD**
TYPSA

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG

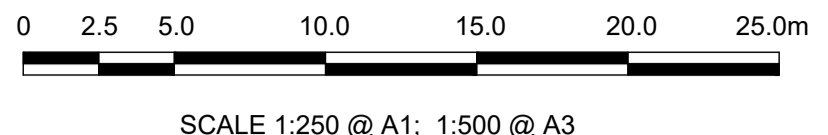
Programme Code: BCIDD
Originator Code: ROT
QMS Code:

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

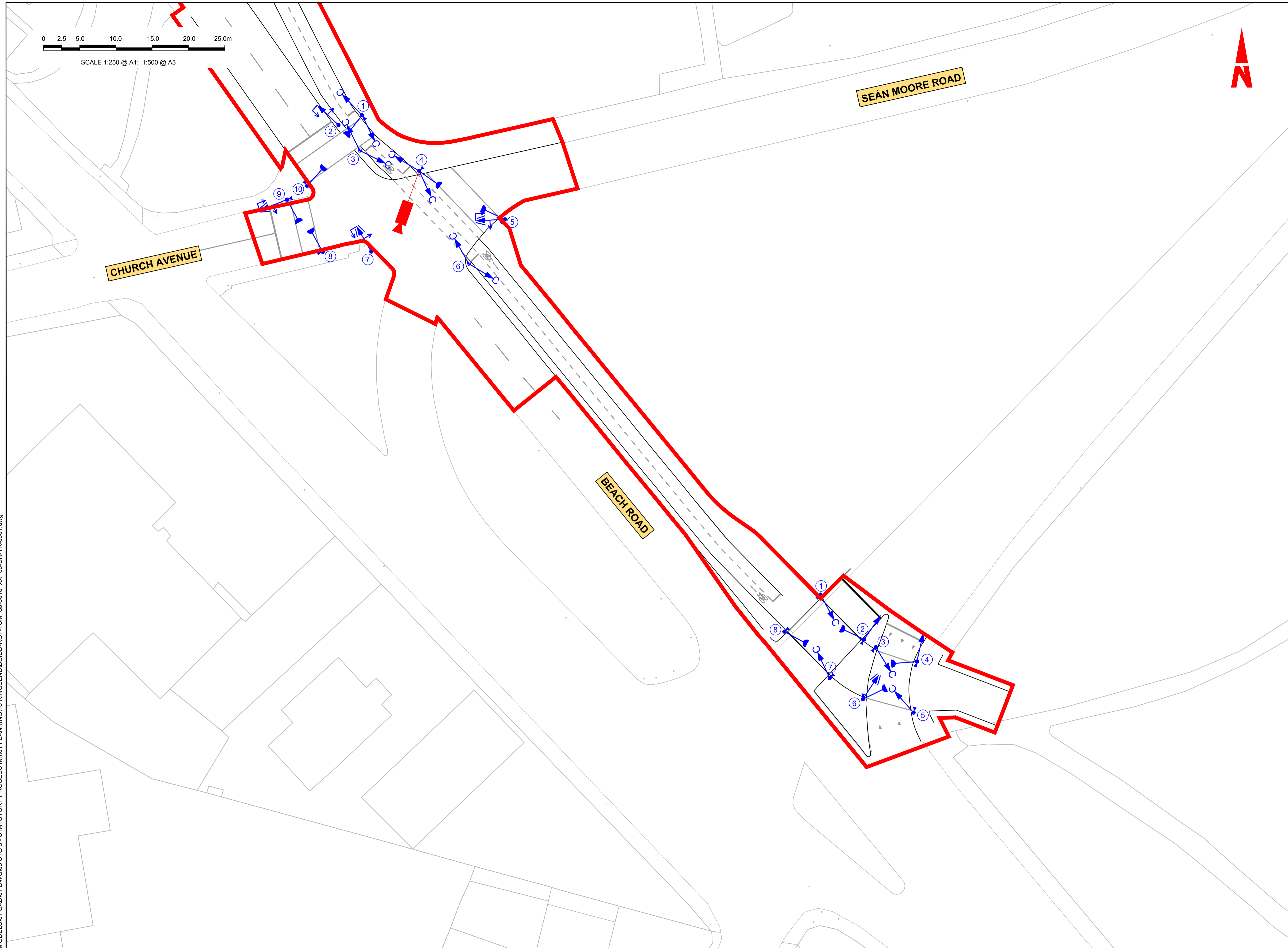
Drawing Title: RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME
JUNCTION SYSTEM DESIGN
CAMBRIDGE ROAD ZEBRA CROSSING

Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0018	18 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



J:\2019\191717-02_WIP\08 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

Disclaimer

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

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

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

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

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

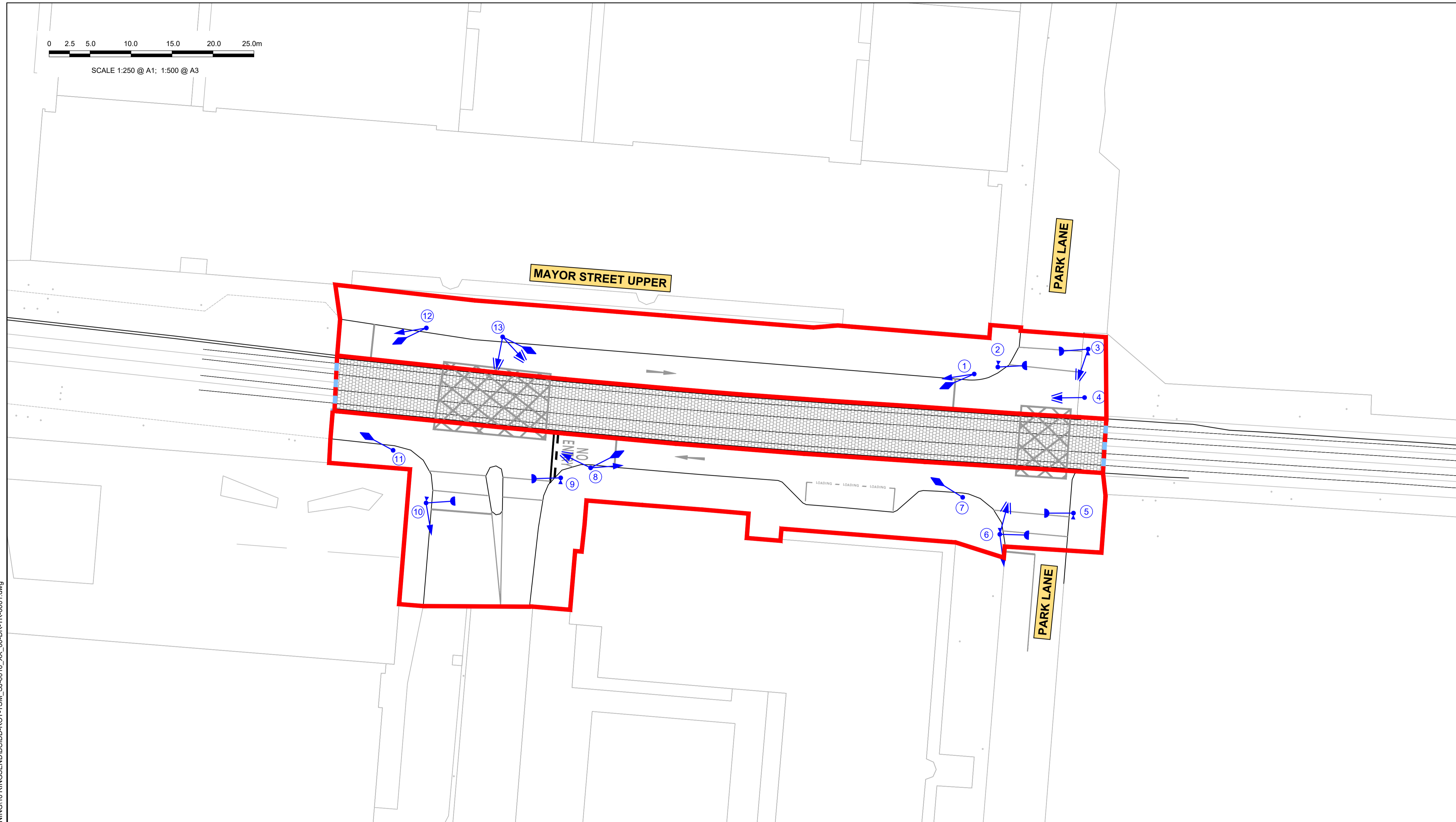
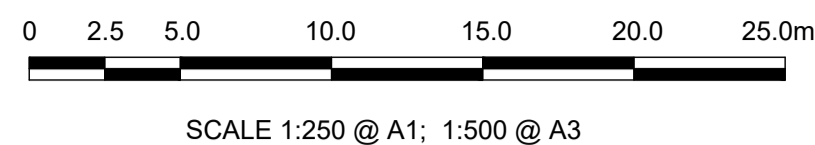
Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN SEAN MOORE ROAD TOUCAN CROSSINGS			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0019	19 of 20	A	M01

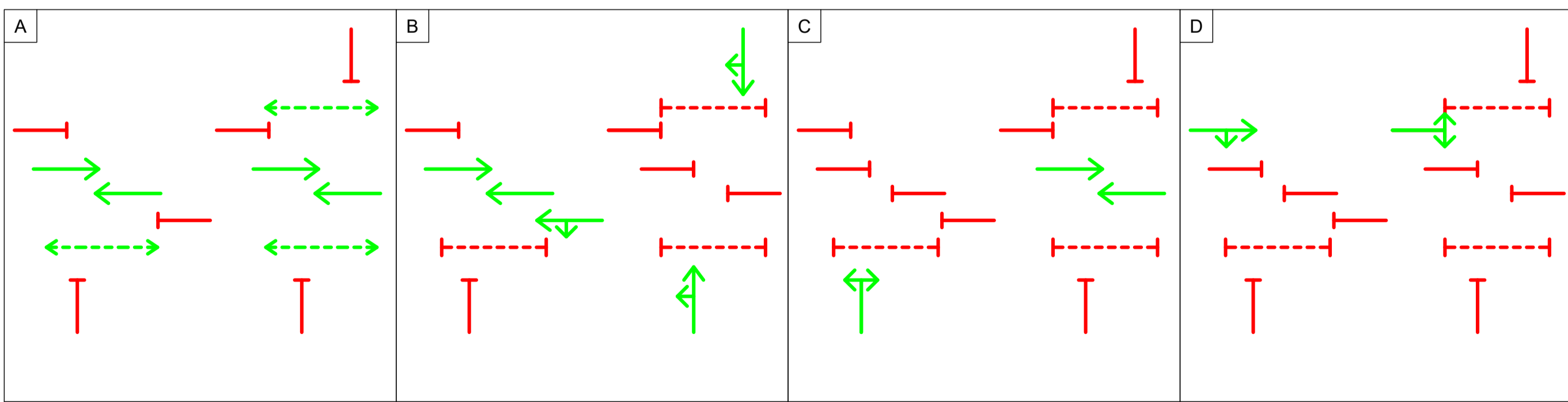


DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002 PRIMARY
 - RTS 002 SECONDARY
 - RTS 003 (RUS 012) PRIMARY
 - RTS 003 (RUS 012) SECONDARY
 - RTS 007 (LOW LEVEL)
 - RTS 007 (HIGH LEVEL)
 - RPC 004 PEDESTRIAN HEAD
 - RTC 002(A) PRIMARY
 - RTC 002(A) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
 - TRAFFIC SIGN MAST ARM (LENGTH VARIES)
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



J:\2019\1911717-02_WIPO8 MODELS\01 CAD\01 DWG\03 STG 3 - STATUTORY PROCESS (M)\01 PLANNING\16 RINGSEND\BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0001.dwg

Disclaimer

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

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

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

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

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



Rev	Date	Drm	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

 Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer IROD TYPSA		
Date	Scale	Drawn	Checked	Approved
MAR 2023	1:250 @ A1 1:500 @ A3	CG	EOC	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEM DESIGN MAYOR STREET UPPER / PARK LANE			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-TSM_SJ-0016_XX_00-DR-TR-0020	20 of 20	A	M01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY