

Appendix B18
Bridges and Major
Retaining Structures



BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME

BRIDGES AND MAJOR RETAINING STRUCTURES

DRAWING SERIES NUMBER(S)	DRAWING SERIES DESCRIPTION
BCIDD-ROT-STR_IX-0016_XX_00-DR-SS-0001	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BRIDGES AND MAJOR RETAINING STRUCTURES - COVER SHEET
BCIDD-ROT-STR_KP-0016_XX_00-DR-SS-0001	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BRIDGES AND RETAINING STRUCTURES - KEY PLAN
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0019	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 01. GEORGE'S DOCK SCHERZER BRIDGES - PROPOSED FOUNDATION DESIGN
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0001	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 01. GEORGE'S DOCK BRIDGE - GENERAL ARRANGEMENT - SHEET 1 OF 2
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0002	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 01. GEORGE'S DOCK BRIDGE - SECTIONS - SHEET 2 OF 2
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0003	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 02. BOARDWALK AT NORTH WALL QUAY - GENERAL ARRANGEMENT - SHEET 1 OF 2
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0004	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 02. BOARDWALK AT NORTH WALL QUAY - ELEVATION & SECTION - SHEET 2 OF 2
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0020	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 03. ROYAL CANAL SCHERZER BRIDGES. PROPOSED FOUNDATION DESIGN
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0005	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 03. ROYAL CANAL BRIDGE - GENERAL ARRANGEMENT - SHEET 1 OF 2
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0006	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 03. ROYAL CANAL BRIDGE - SECTIONS - SHEET 2 OF 2
MCD0716-RPS-00-XX-DR-S-DG0001	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES..RINGSEND 04. WWRC BOARDWALK. STRUCTURAL LAYOUT PLAN
MCD0716-RPS-00-XX-DR-S-DG0002	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES..RINGSEND 04. WWRC BOARDWALK. WESTERN STRUCTURAL LAYOUT - PLAN & DETAILS
MCD0716-RPS-00-XX-DR-S-DG0003	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES.RINGSEND 04. WWRC BOARDWALK. EASTERN STRUCTURAL LAYOUT - PLAN & DETAILS
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0009	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 05. DODDER (OPENING) BRIDGE - OVERALL PLAN
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0010	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 05. DODDER (OPENING) BRIDGE - PLAN & LONGSECTION - SHEET 1 OF 6
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0011	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 05. DODDER (OPENING) BRIDGE - PLAN & LONGSECTION - SHEET 2 OF 6
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0012	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 05. DODDER (OPENING) BRIDGE - PLAN & CROSS SECTIONS - SHEET 3 OF 6
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0013	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 05. DODDER (OPENING) BRIDGE - CROSS SECTIONS - SHEET 4 OF 6
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0014	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 05. DODDER (OPENING) BRIDGE - CROSS SECTIONS - SHEET 5 OF 6
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0015	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND 05. DODDER (OPENING) BRIDGE - CROSS SECTIONS - SHEET 6 OF 6
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0016	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND RECLAIMED LAND - PLAN LAYOUT - SHEET 1 OF 3
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0017	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND RECLAIMED LAND - SECTIONS - SHEET 2 OF 3
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0018	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. RINGSEND RECLAIMED LAND - SECTIONS - SHEET 3 OF 3
BCIDD-ROT-SHA_ZZ-0016_XX_00-DR-SS-0001	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. St PATRICK'S ROWING CLUB - GROUND FLOOR PLAN
BCIDD-ROT-SHA_ZZ-0016_XX_00-DR-SS-0002	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. St PATRICK'S ROWING CLUB - FIRST FLOOR PLAN
BCIDD-ROT-SHA_ZZ-0016_XX_00-DR-SS-0003	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. St PATRICK'S ROWING CLUB - PROPOSED ELEVATIONS / SECTIONS
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0007	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. PROPOSED SUB-STATION LOCATION
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0008	RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. - ESB SUB-STATION

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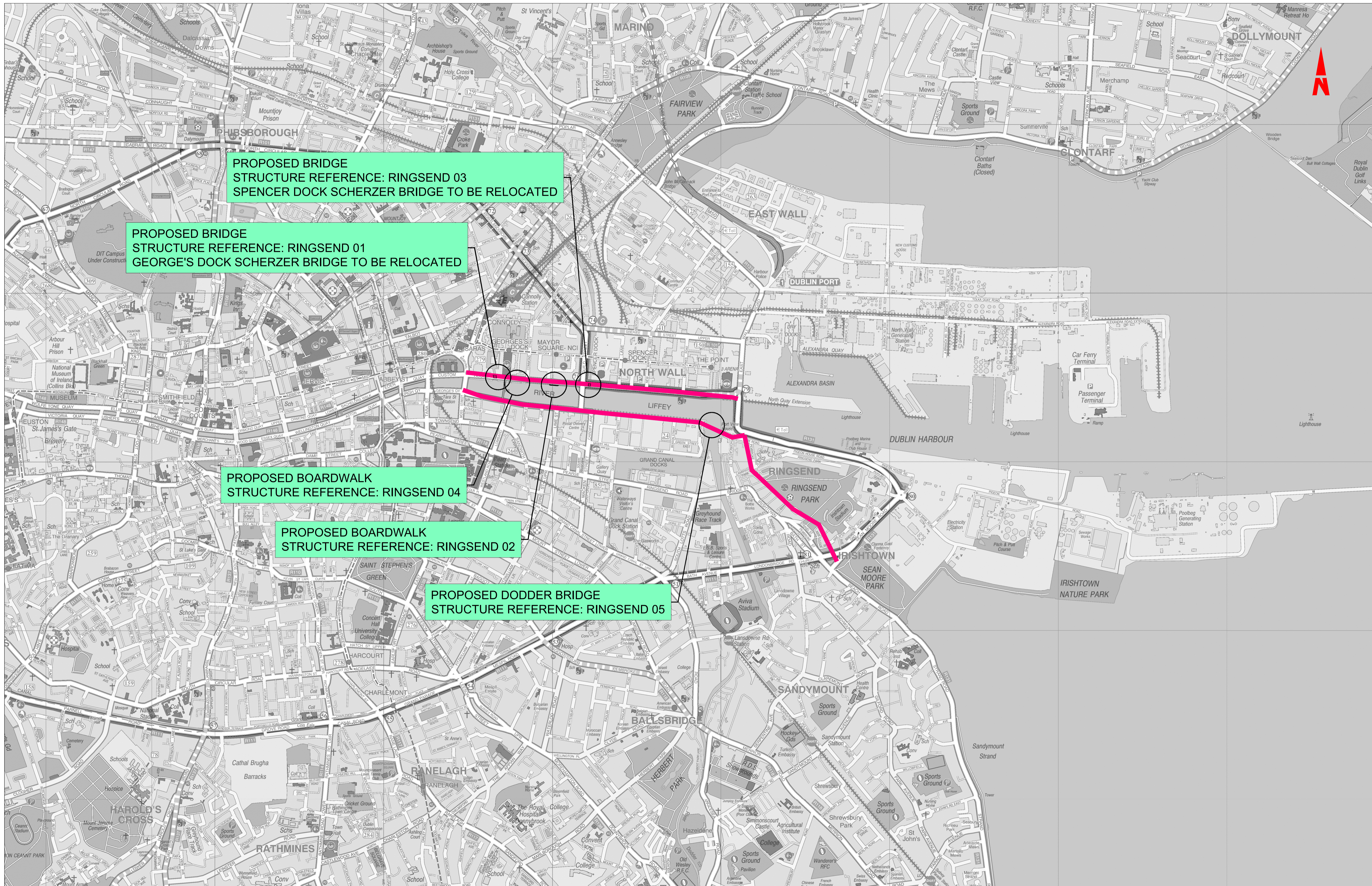
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Rev	Date	Drn	Chk'd	App'd	Description
M01	MAR 2023	CG	EOC	SMG	ISSUE FOR PHASE 4: PLANNING

Date	Scale	NTS @ A1	Drawn	Checked	Approved
MAR 2023		NTS @ 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 BRIDGES AND MAJOR RETAINING STRUCTURES COVER SHEET			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-STR_IX-0016_XX_00-DR-SS-0001	01 of 01	A	M01

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PROPOSED BRIDGE
STRUCTURE REFERENCE: RINGSEND 03
SPENCER DOCK SCHERZER BRIDGE TO BE RELOCATED

PROPOSED BRIDGE
STRUCTURE REFERENCE: RINGSEND 01
GEORGE'S DOCK SCHERZER BRIDGE TO BE RELOCATED

PROPOSED BOARDWALK
STRUCTURE REFERENCE: RINGSEND 04

PROPOSED BOARDWALK
STRUCTURE REFERENCE: RINGSEND 02

PROPOSED DODDER BRIDGE
STRUCTURE REFERENCE: RINGSEND 05

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Rev	Date	Drn	Chk'd	App'd	Description
M01	06/04/2022	JGE	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client
 NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
 IROD
 TYPASA

Date
 06/04/2022

Scale
 1:10000 @ A1
 1:20000 @ A3

Drawn
 JGE

Checked
 EFD

Approved
 SMG

Project Code
 BCIDD

Originator Code
 NTA

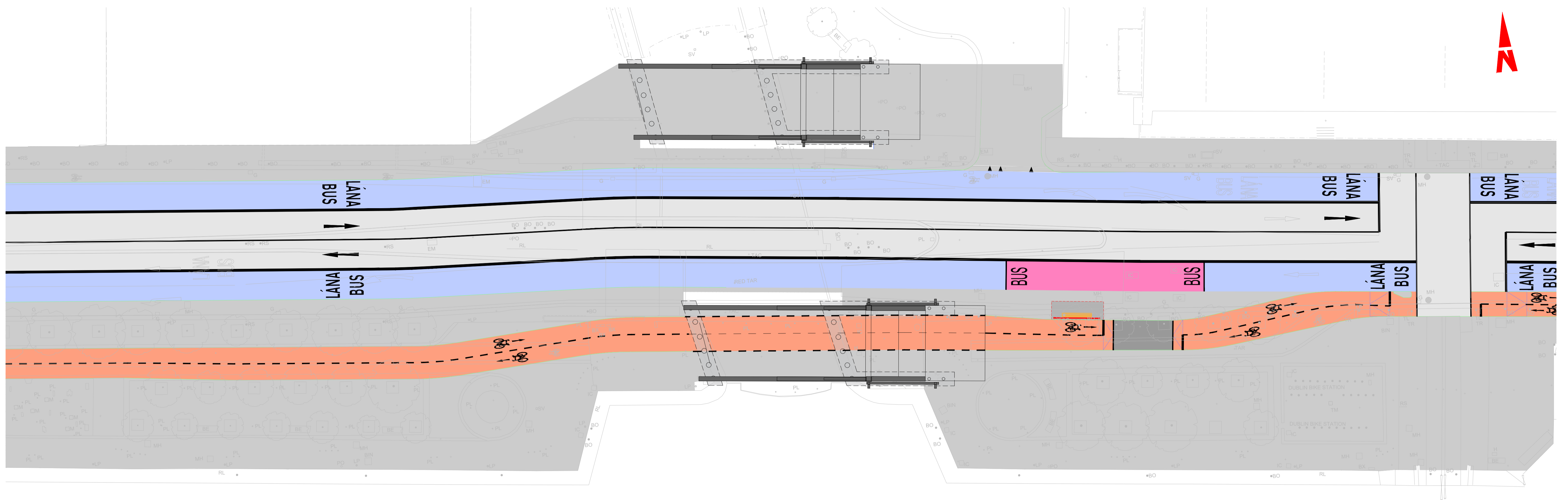
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Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

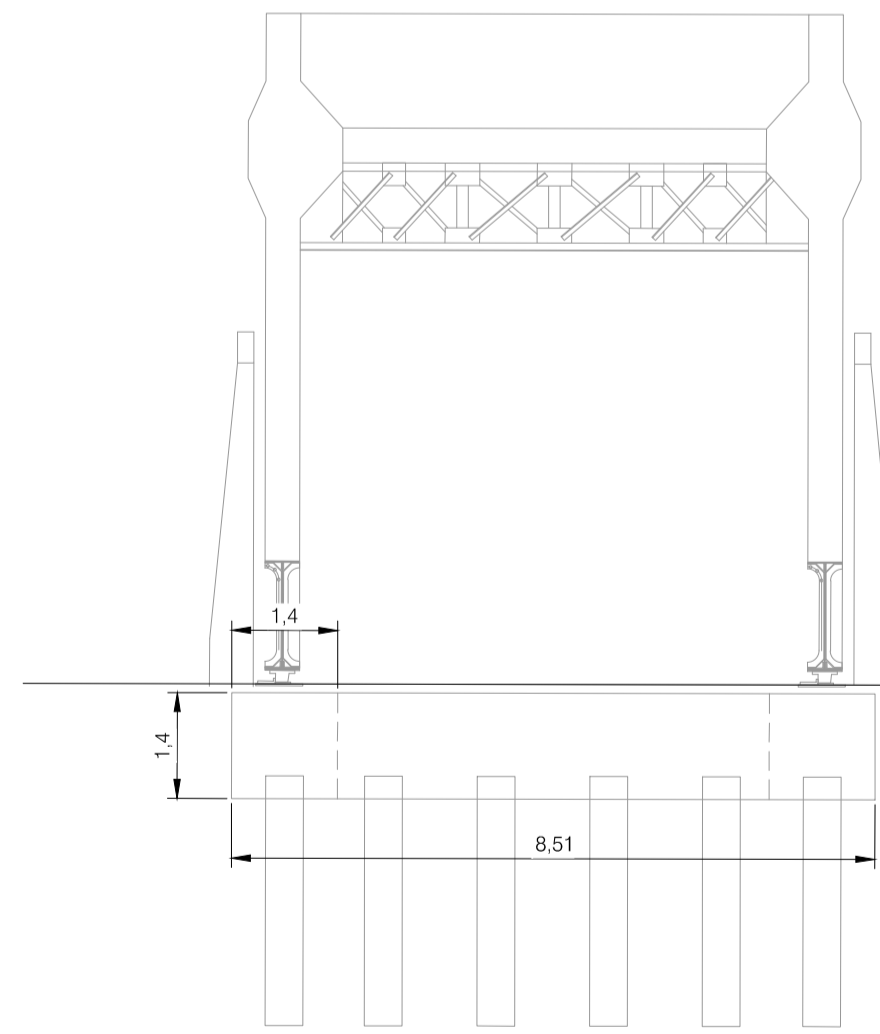
Drawing Title
 CBC 16
 RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME
 BRIDGES & RETAINING STRUCTURES
 KEY PLAN

Drawing File Name BCIDD-ROT-STR_KP-0016_XX_00-DR-SS-0001	Sheet Number 01 of 01	Status A	Rev M01
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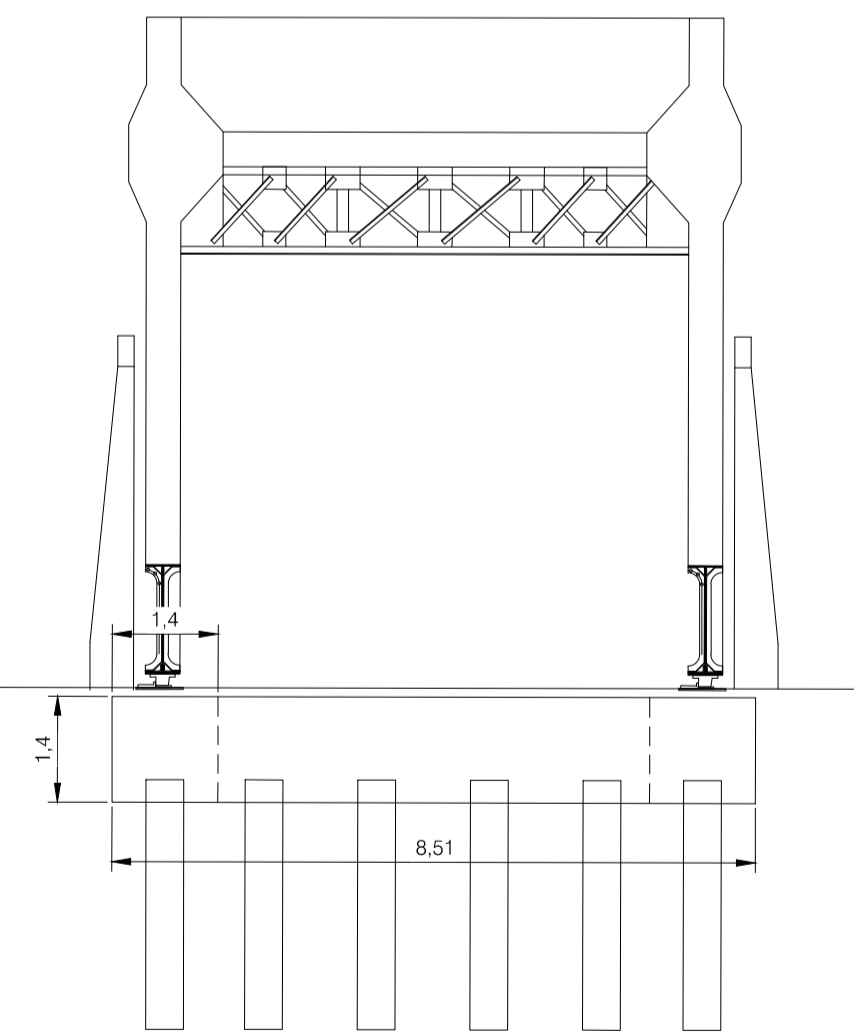
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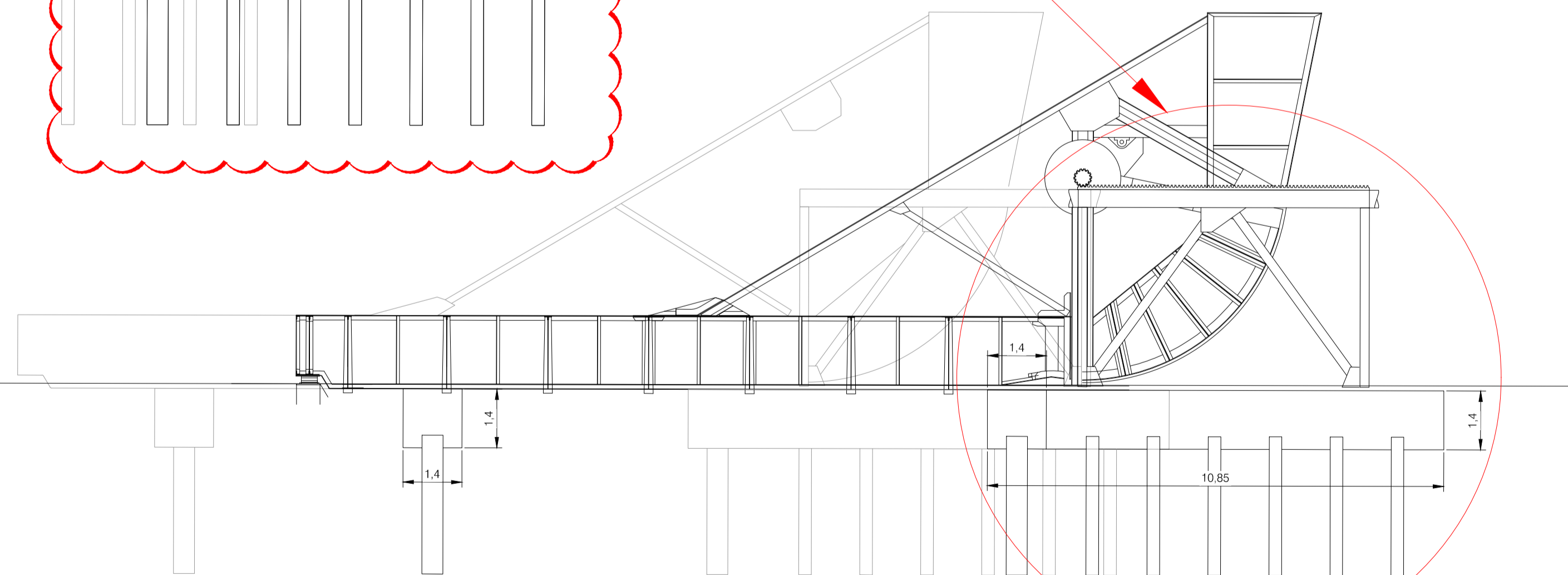
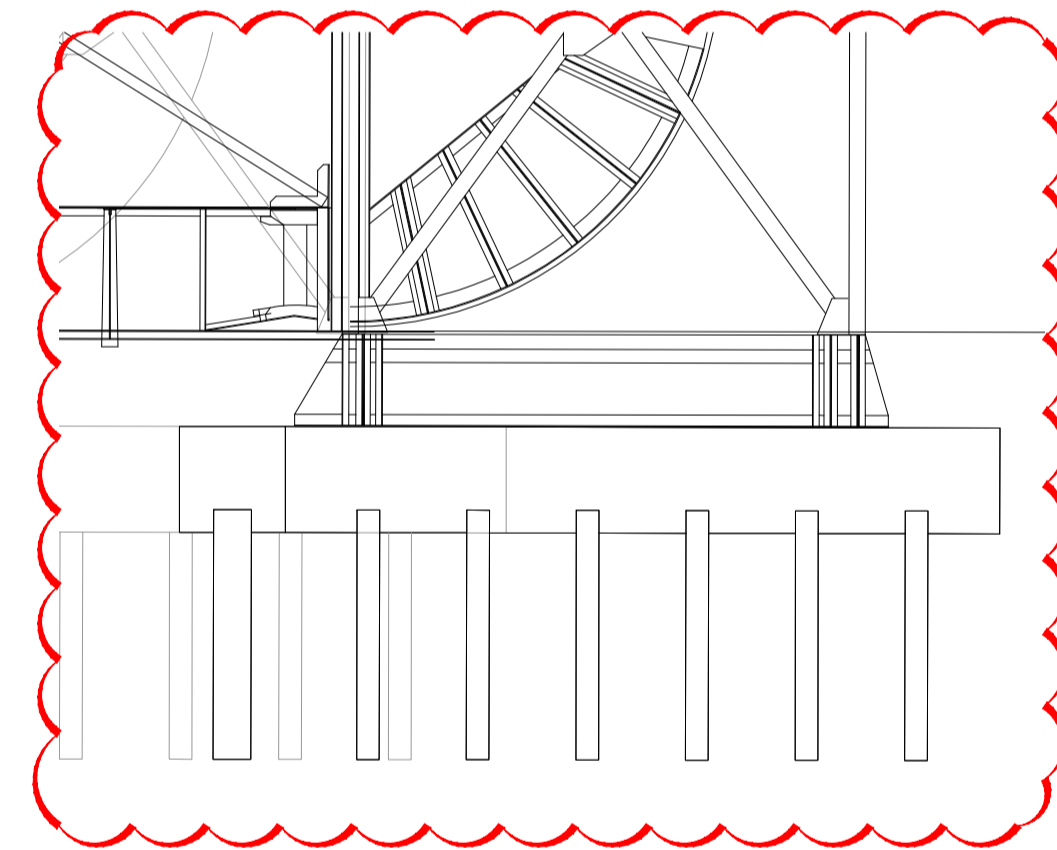
PLAN VIEW
1:200



EAST ELEVATION
1:100



SOUTH ELEVATION
1:100



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M01	30/06/2022	AG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer FIROD TYPSA		
Date 30/06/2022	Scale 1:100 @ A1 1:200 @ A3	Drawn AG	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 RINGSEND 01 - GEORGE'S DOCK SCHERZER BRIDGES PROPOSED FOUNDATION DESIGN				
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0019	Sheet Number 19 of 20	Status A	Rev M01	

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SCALE 1:100 @ A1; 1:200 @ A3



PLEASE REFER TO UTILITIES DRAWINGS FOR FURTHER INFORMATION

GEORGE'S DOCK

RELOCATED SCHERZER BRIDGE

EXISTING CULVERT

NORTH WALL QUAY

LANA

SE QUAY

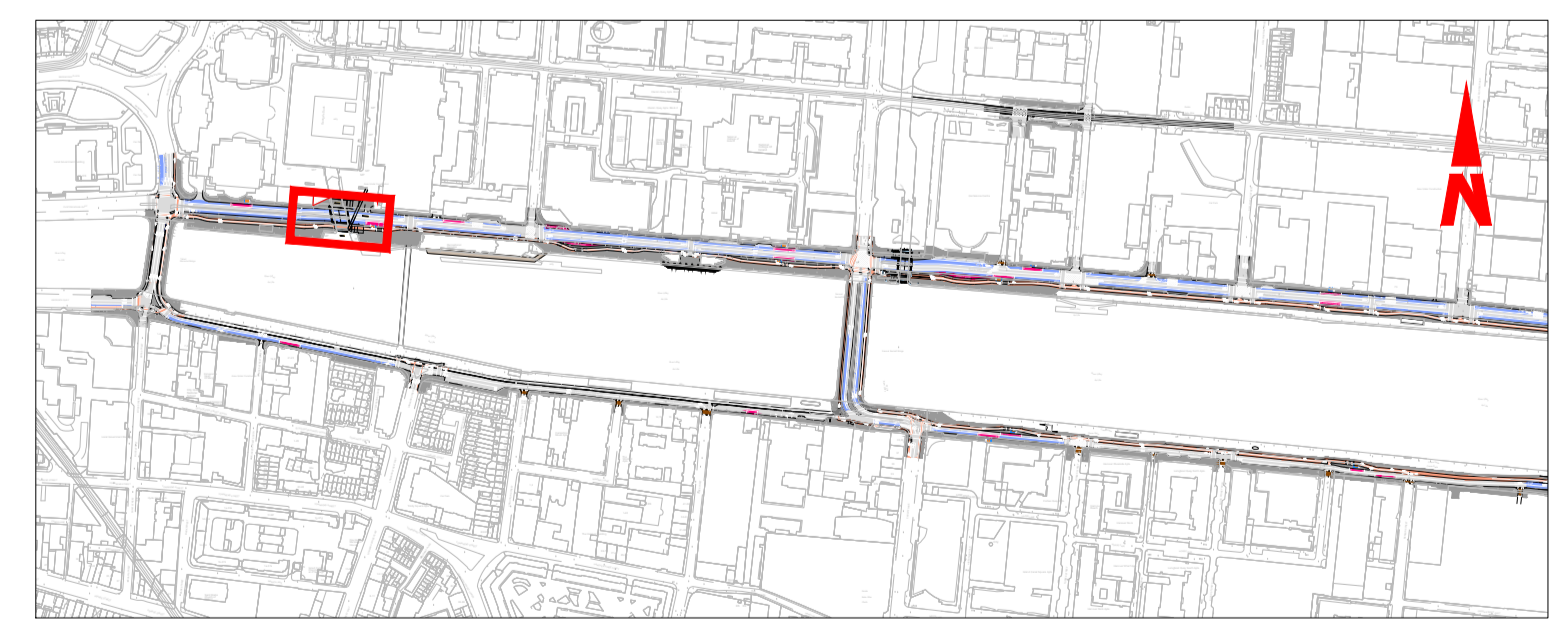
BUS

BUS

GENERAL PLAN
SCALE 1:100

RIVER LIFFEY

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 - TEMPORARY FENCING SHOULD BE ERECTED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ALL BURIED SURFACES TO BE WATERPROOFED IN ACCORDANCE WITH THE TII SPECIFICATION FOR ROAD WORKS.
 - FOUNDATION DETAILS SUBJECT TO CONFIRMATION OR RECEIPT OF G.I.
 - SAFETY BARRIER IN ACCORDANCE WITH DN-REG-03034
 - PRECAST BEAM STRENGTH:
 - C45/55 @ TRANSFER
 - C57/70 @ 28 DAYS
 - SERVICES SHOWN INDICATIVELY ONLY. THE CONTRACTOR SHALL IDENTIFY THE SERVICES ON SITE PRIOR COMMENCING CONSTRUCTION WORKS.



KEY PLAN

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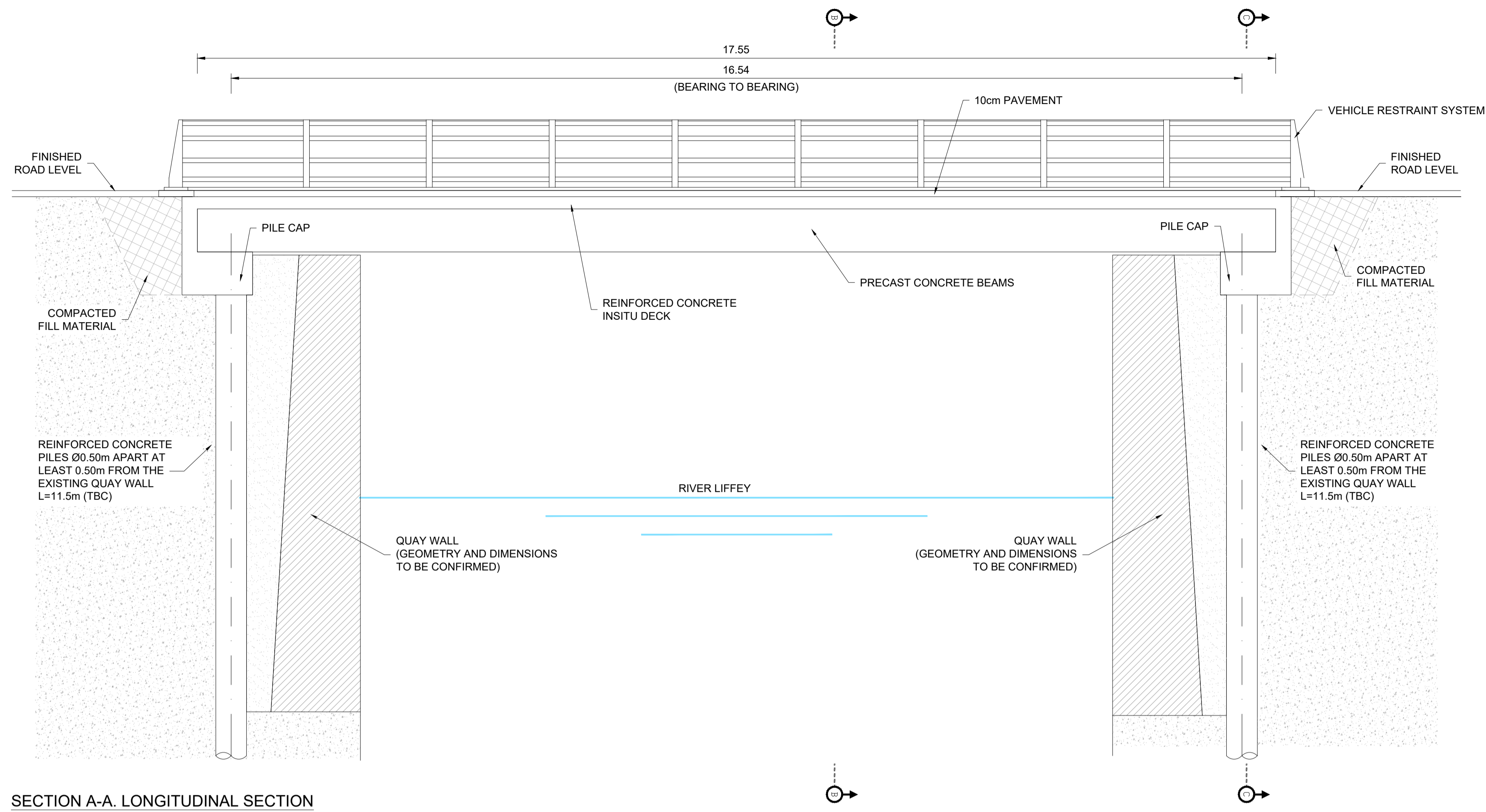
Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	JGE	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Engineering Designer PROD TYPSA		
Date 30/06/2022	Scale 1:100 @ A1 1:200 @ A3	Drawn JGE	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

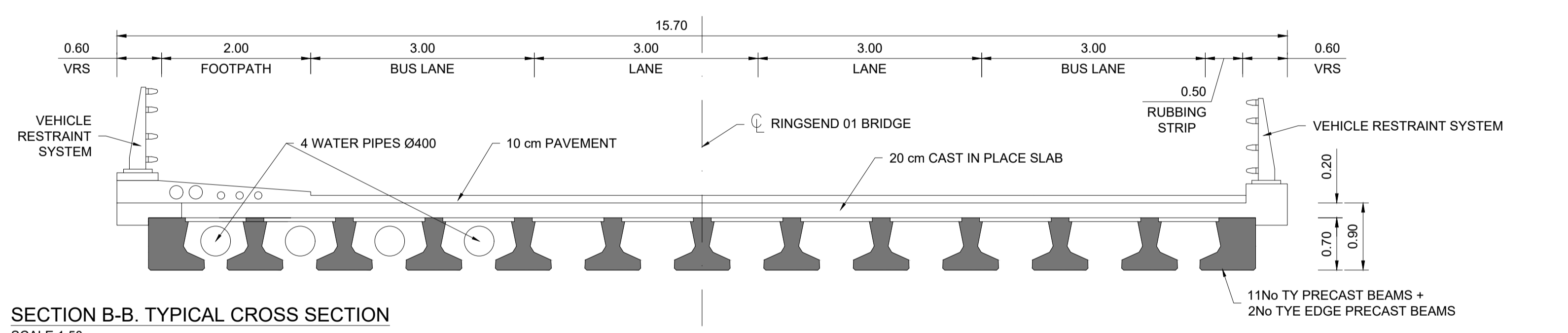
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Drawing Title RINGSSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES RINGSSEND 01 - GEORGE'S DOCK GENERAL ARRANGEMENT - SHEET 1 OF 2				
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0001	Sheet Number 01 of 02	Status A	Rev M01	

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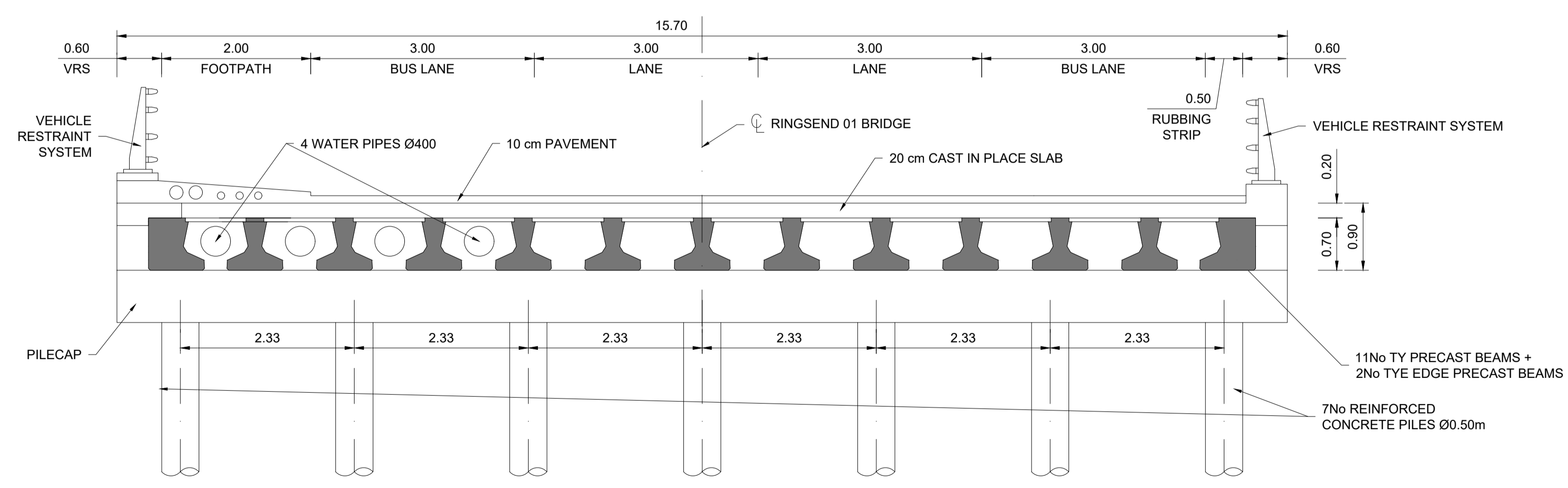
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SECTION A-A. LONGITUDINAL SECTION
SCALE 1:50



SECTION B-B. TYPICAL CROSS SECTION
SCALE 1:50



SECTION C-C. TYPICAL CROSS SECTION AT ABUTMENTS
SCALE 1:50

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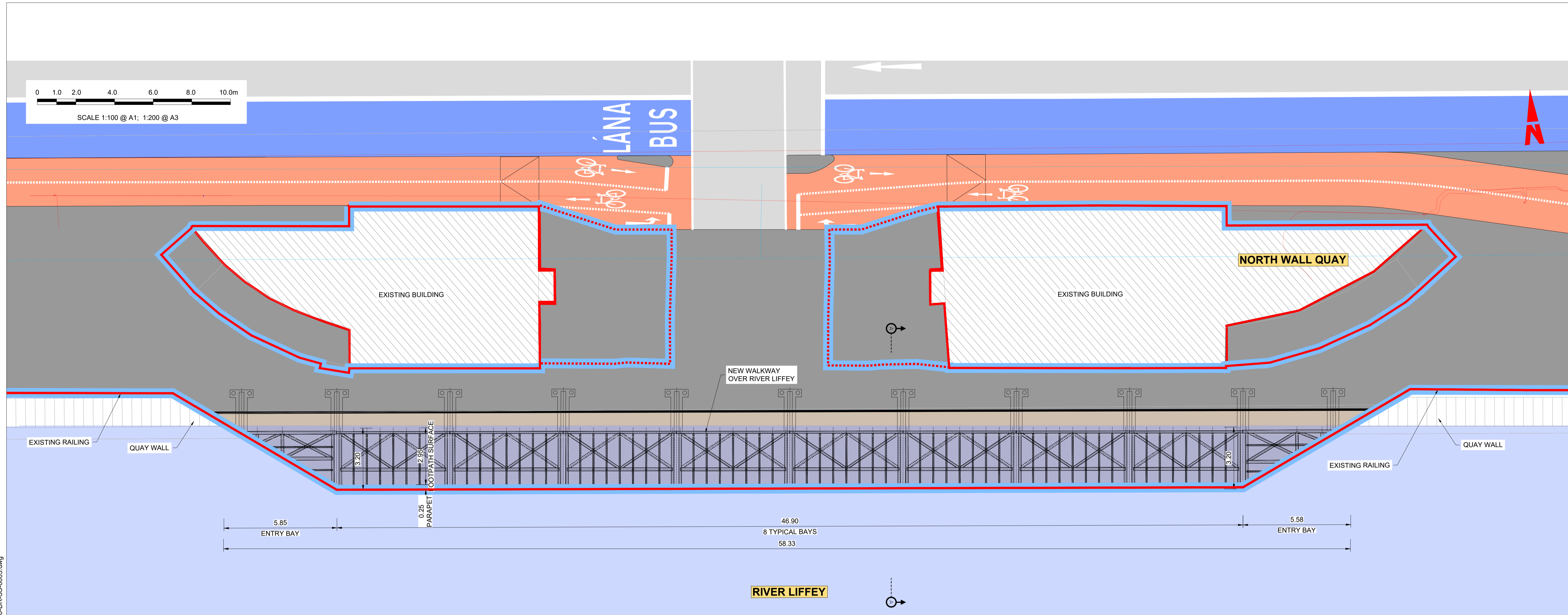
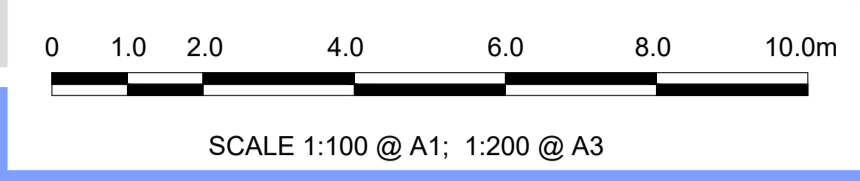
Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	JGE	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer PROD TYPSA		
Date 30/06/2022	Scale 1:100 @ A1 1:200 @ A3	Drawn JGE	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

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Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0002	Sheet Number 02 of 02	Status A	Rev M01	

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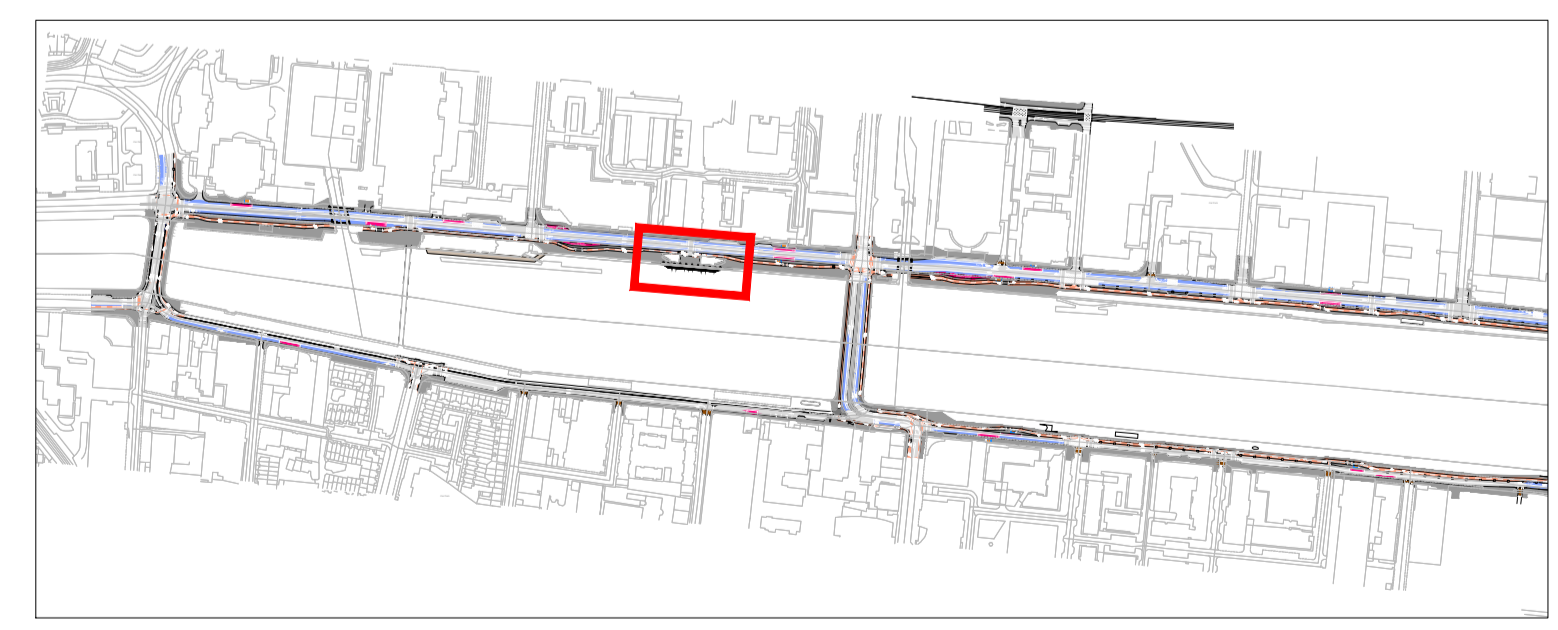
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GENERAL PLAN
SCALE 1:100

NOTES:

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4. ALL BURIED SURFACES TO BE WATERPROOFED IN ACCORDANCE WITH THE TII SPECIFICATION FOR ROAD WORKS.
5. FOUNDATION DETAILS SUBJECT TO CONFIRMATION OR RECEIPT OF G.I.
6. SAFETY BARRIER IN ACCORDANCE WITH SAFETY BARRIER IN ACCORDANCE WITH DN-REG-03034
7. STRUCTURAL STEEL ELEMENTS:
- STEEL S355
8. SERVICES SHOWN INDICATIVELY ONLY. THE CONTRACTOR SHALL IDENTIFY THE SERVICES ON SITE PRIOR COMMENCING CONSTRUCTION WORKS.



KEY PLAN

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Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	JGE	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Údarás Náisiúnta Iompair
National Transport Authority

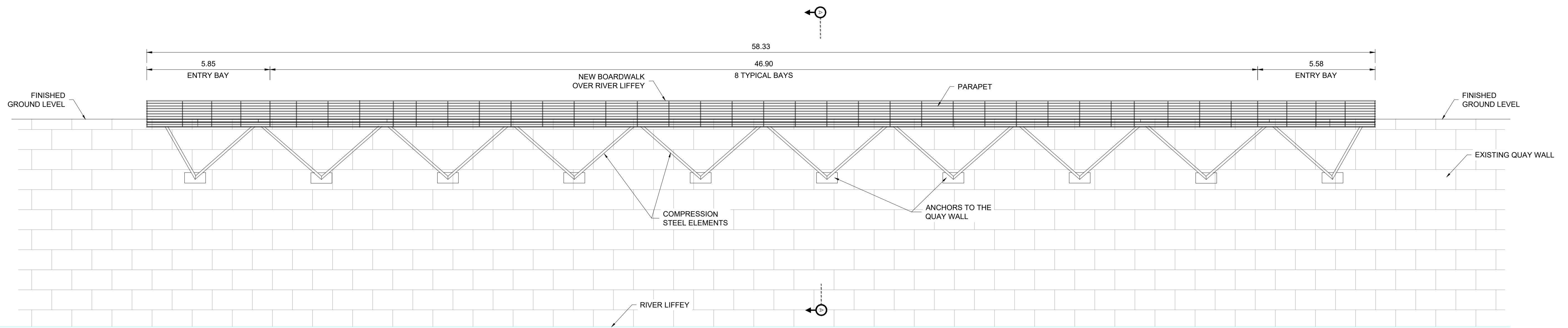
Engineering Designer
PROD
TYPSA

Date	Scale	Drawn	Checked	Approved
30/06/2022	1:100 @ A1 1:200 @ A3	JGE	EFD	SMG
Project Code	Originator Code	QMS Code		
BCIDD	ROT			

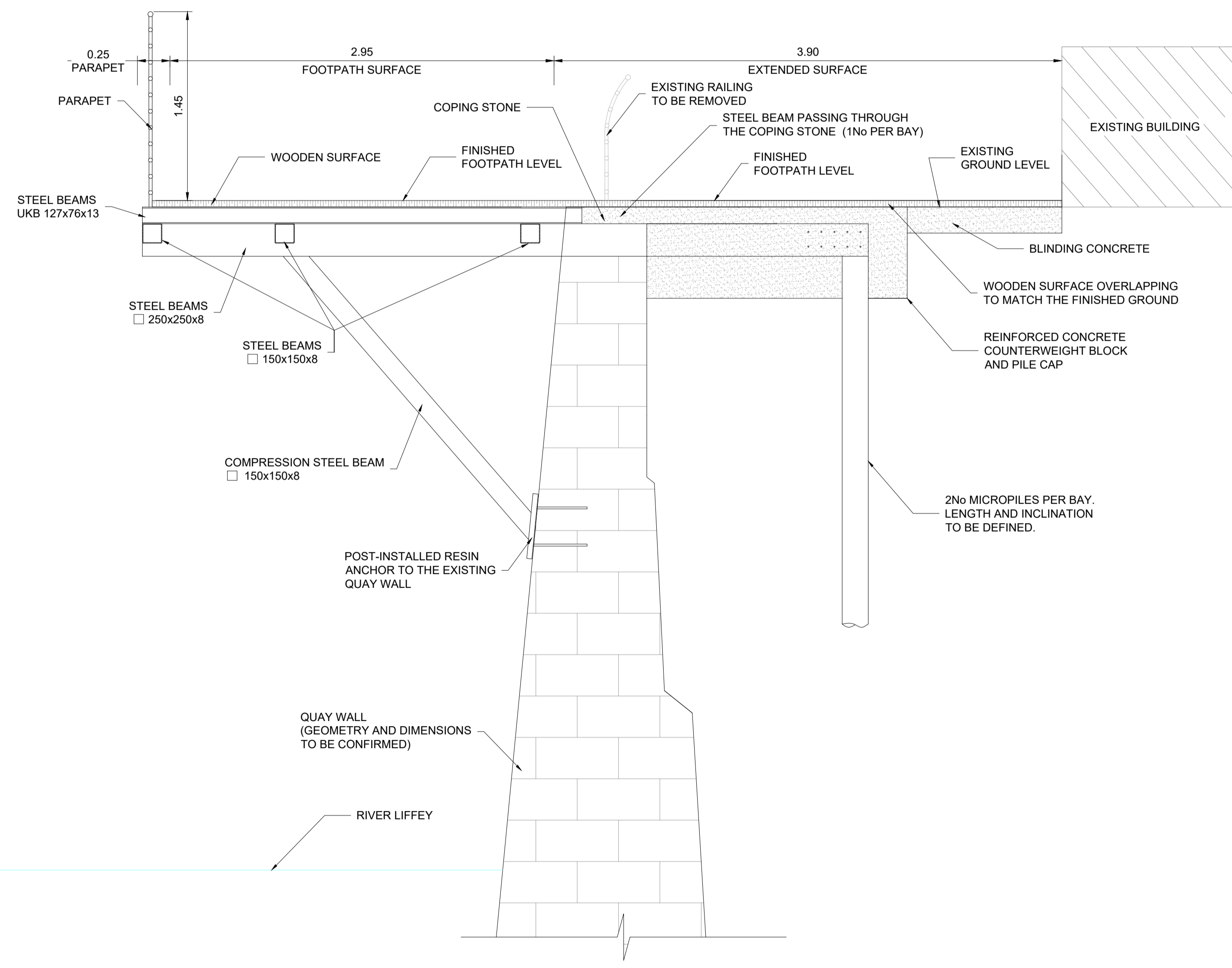
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Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES RINGSEND 02 - BOARDWALK AT NORTH WALL QUAY - GENERAL ARRANGEMENT			
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0003	Sheet Number 01 of 02	Status A	Rev M01

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ELEVATION VIEW
SCALE 1:100



SECTION A-A. TYPICAL SECTION
SCALE 1:25

NOTES:

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- STRUCTURAL STEEL ELEMENTS:
- STEEL S355
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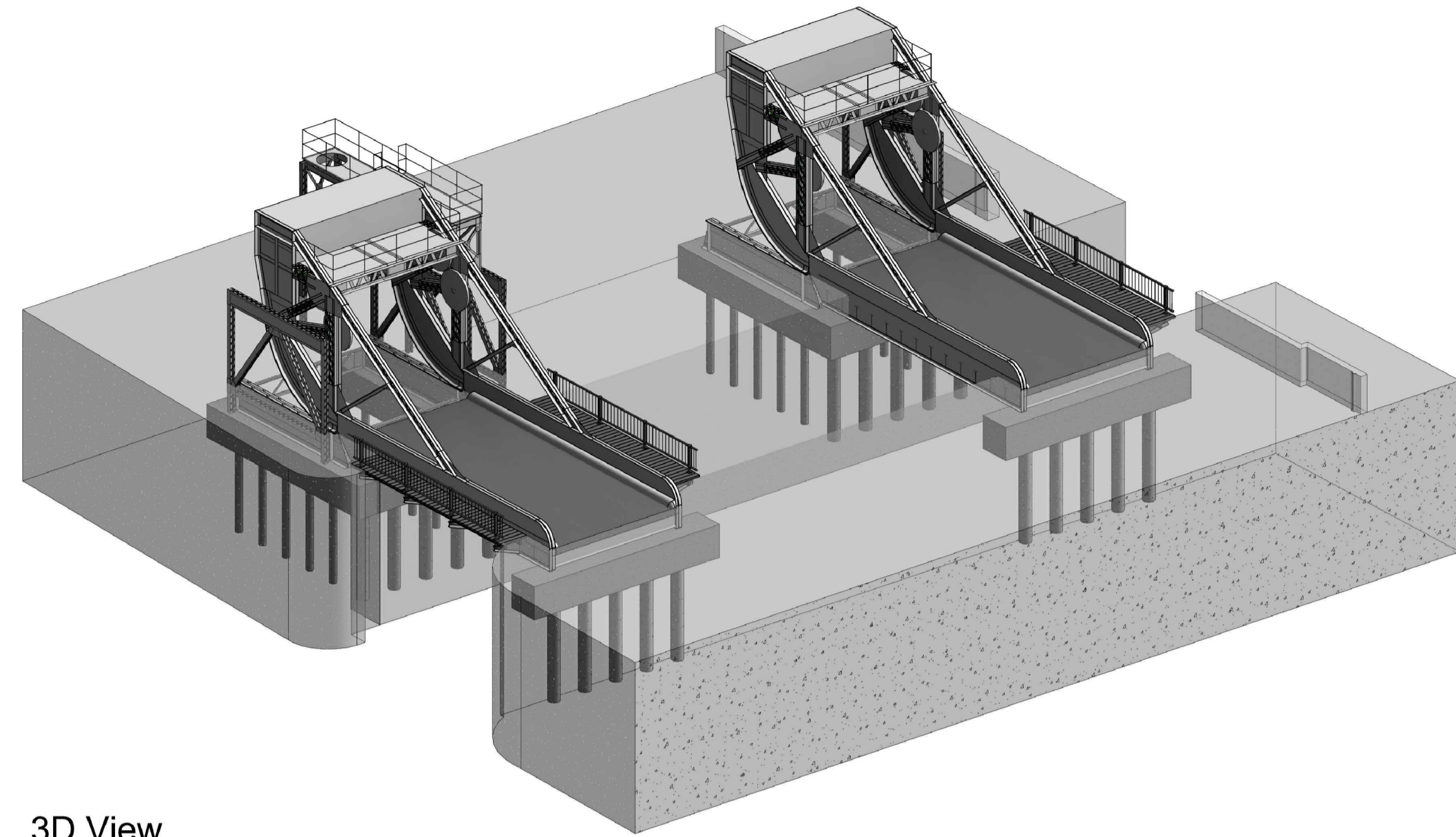
Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	JGE	EFD	SMG	ISSUE FOR PHASE4: PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Engineering Designer JROD TYPSA		
Date 30/06/2022	Scale AS SHOWN	Drawn JGE	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

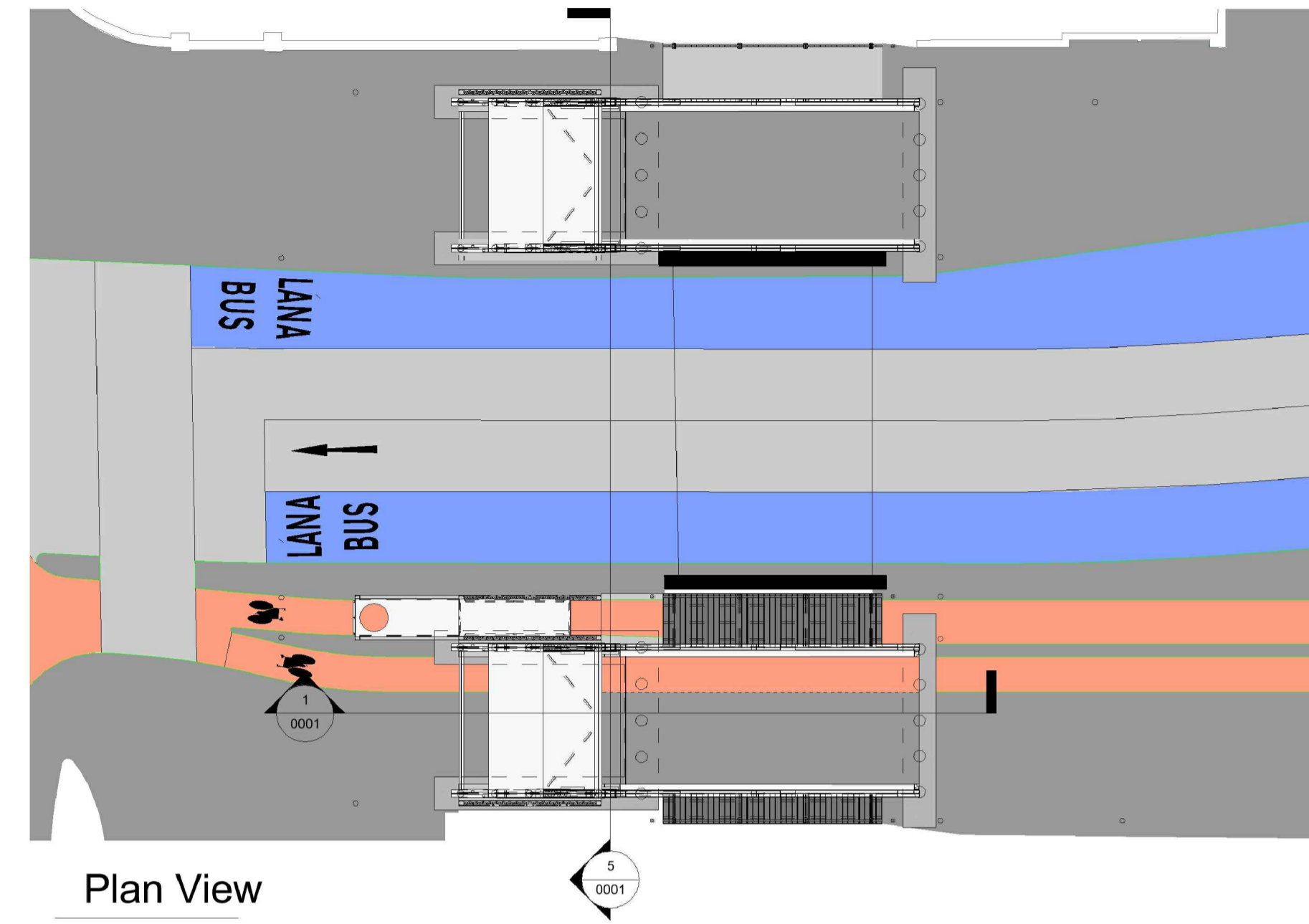
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Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES RINGSEND 02 - BOARDWALK AT NORTH WALL QUAY - ELEVATION & SECTION - SHEET 2 OF 2				
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0004	Sheet Number 02 of 02	Status A	Rev M01	

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3D View

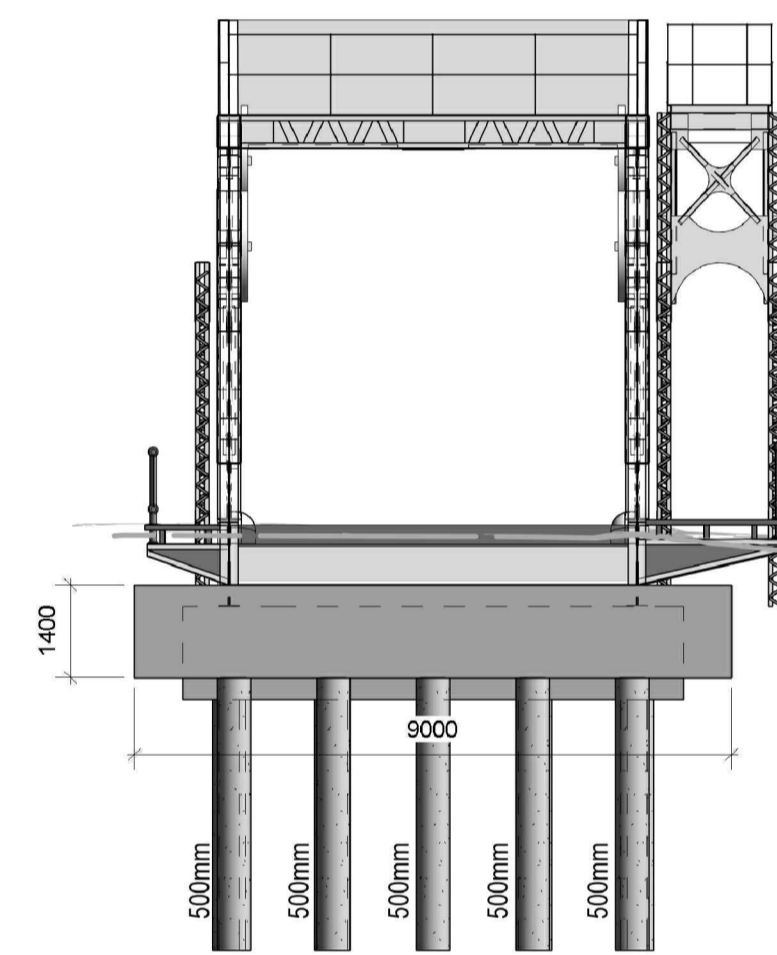


Plan View

1 : 200

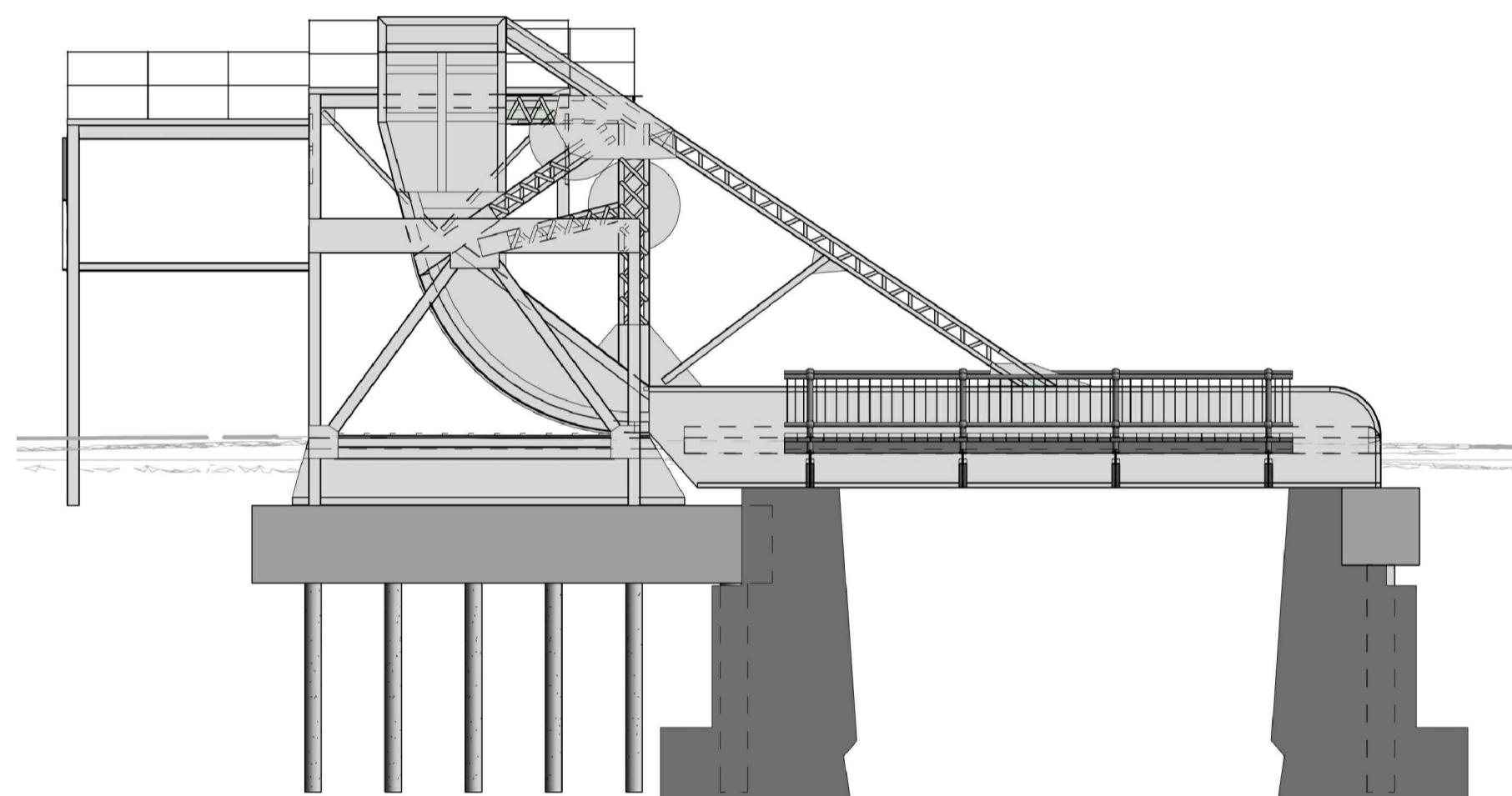
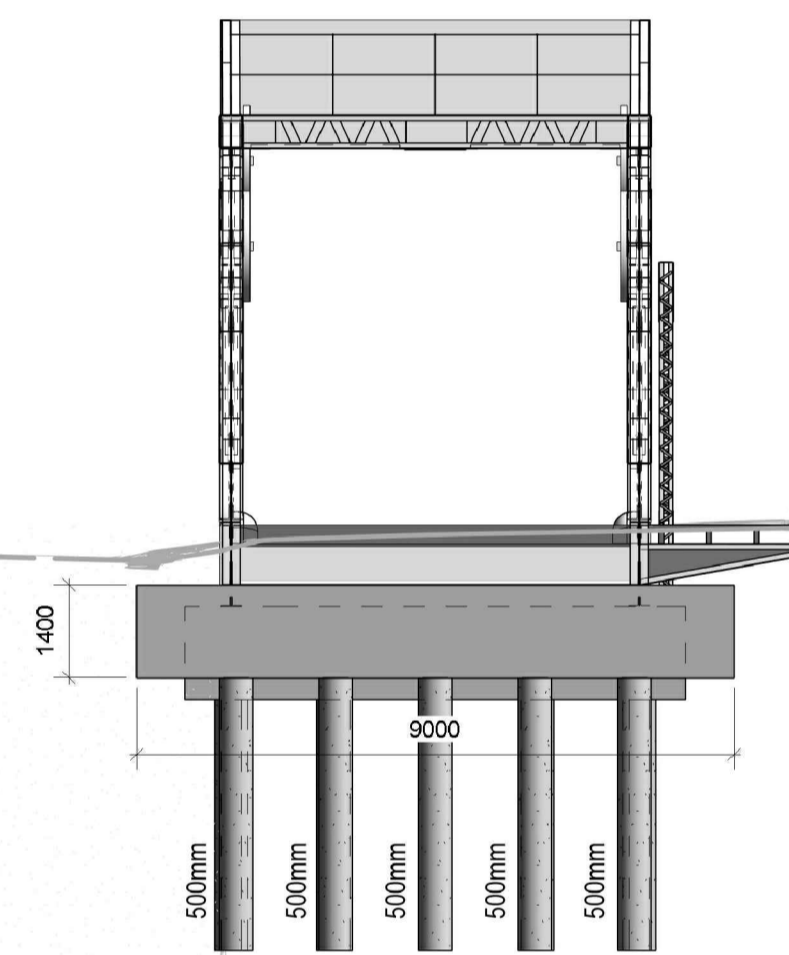
NOTES:

1. LENGTH OF PILES 5m SUBJECT TO G.I. DIAMETER AS SHOWN.
2. FOUNDATION LAYOUT ASSUMES THE BRIDGES ARE TO BE RECOMMISSIONED
3. DEPTH TO BEDROCK IS CURRENTLY UNKNOWN AND WILL BE DETERMINED AS PART OF DETAILED DESIGN.
4. PILE CAPS BEHIND CAPPING STONES
5. SEE ACCOMPANYING TYPICAL CROSS SECTION



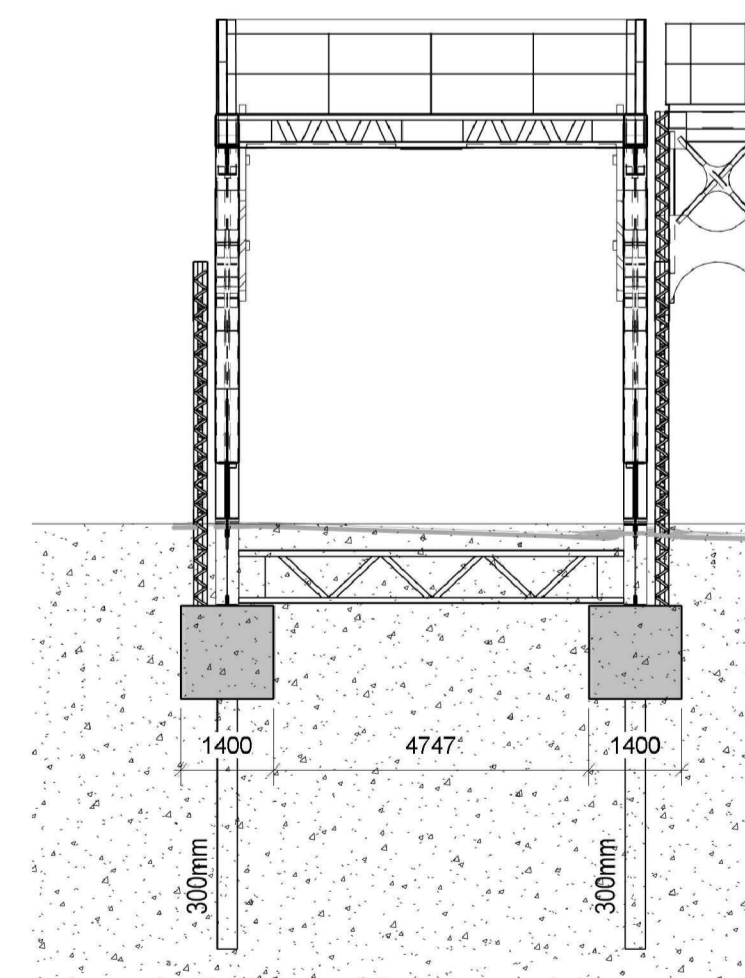
East Elevation

1 : 100



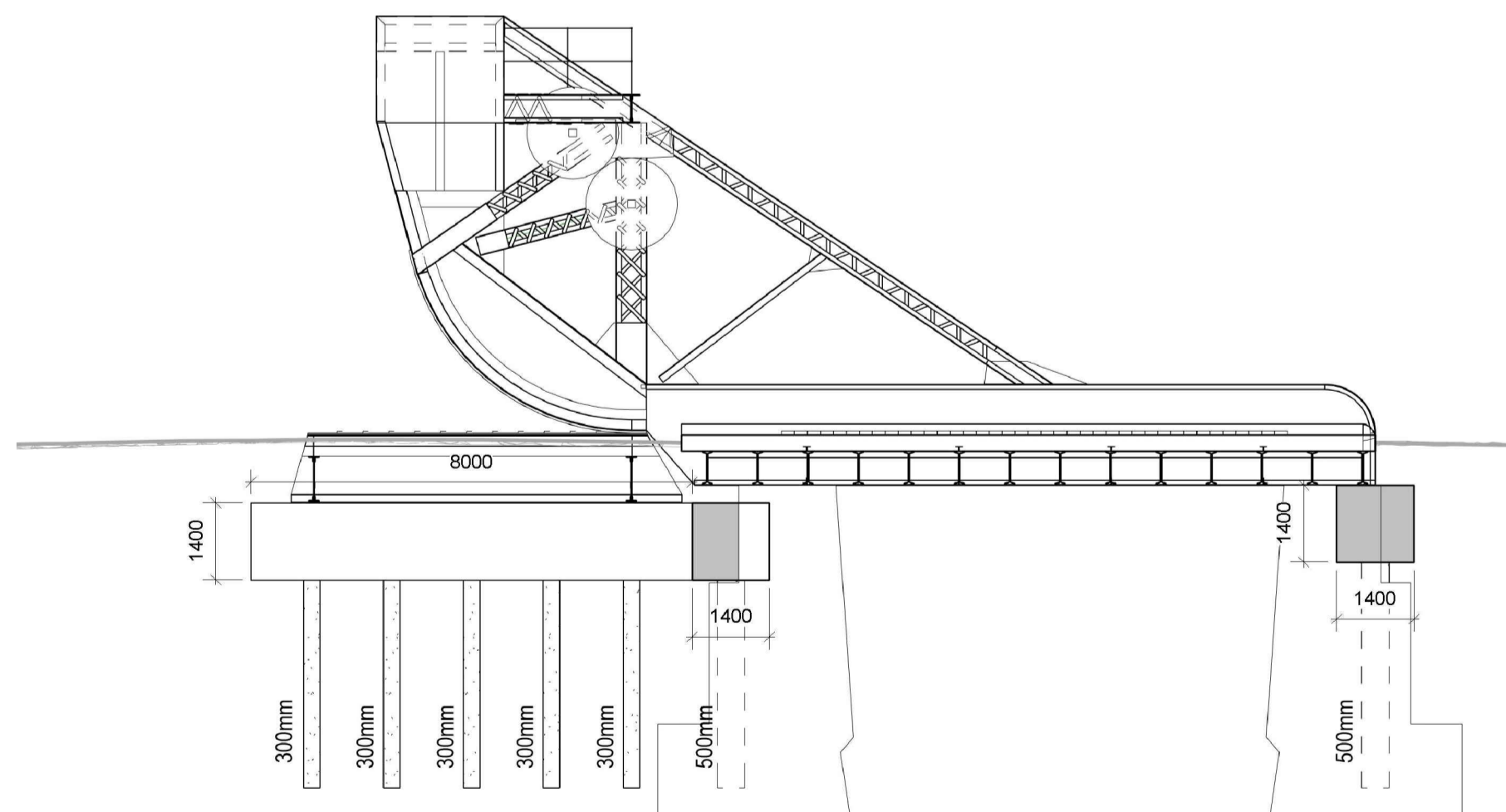
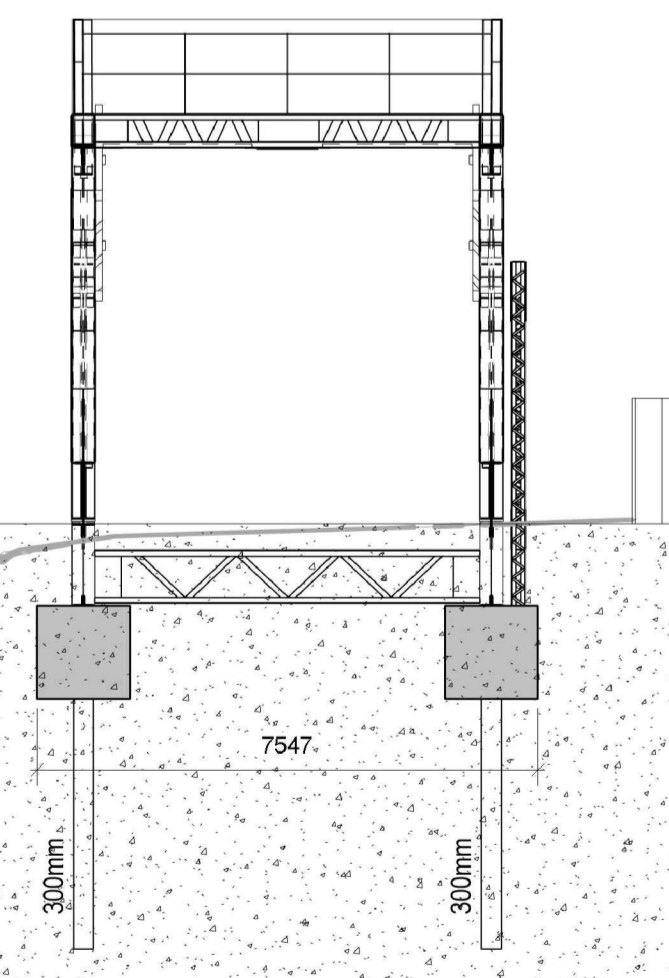
South Elevation

1 : 100



Section B-B

1 : 100



Section A-A

1 : 100

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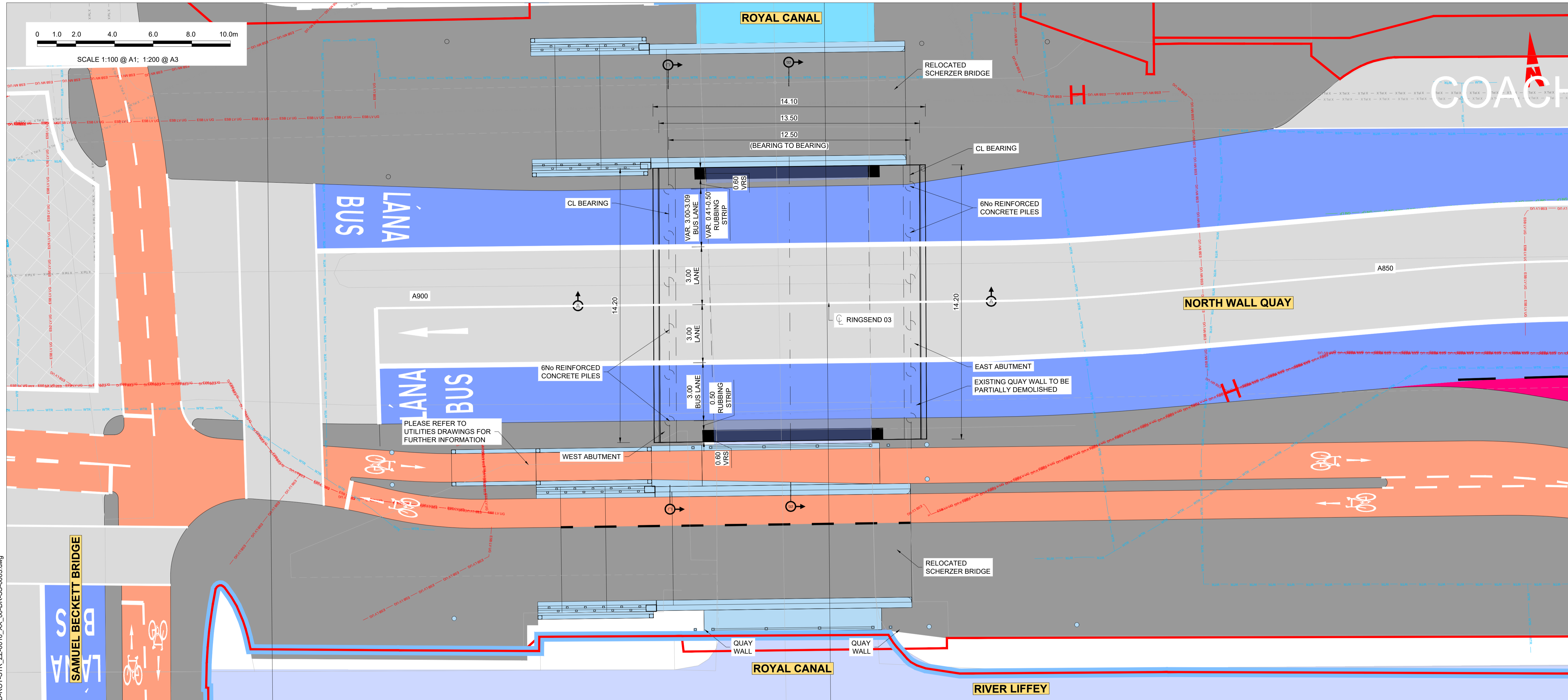
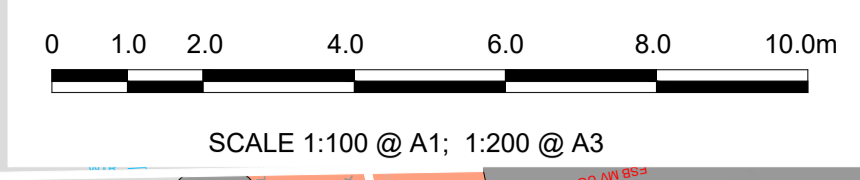


Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	AG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Engineering Designer FIROD TYPSA		
Date 30/06/2022	Scale 1:100 @ A1 1:200 @ A3	Drawn AG	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 RINGSEND 03 - ROYAL CANAL SCHERZER BRIDGES PROPOSED FOUNDATION DESIGN				
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0020	Sheet Number 20 of 20	Status A	Rev M01	

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GENERAL PLAN
SCALE 1:100

- NOTES:**
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 4. TEMPORARY FENCING SHOULD BE ERECTED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 5. ALL BURIED SURFACES TO BE WATERPROOFED IN ACCORDANCE WITH THE TII SPECIFICATION FOR ROAD WORKS.
 6. FOUNDATION DETAILS SUBJECT TO CONFIRMATION OR RECEIPT OF G.I.
 7. SAFETY BARRIER IN ACCORDANCE WITH DN-REG-03034
 8. PRECAST BEAM STRENGTH:
- C45/55 @ TRANSFER
- C57/70 @ 28 DAYS
 9. SERVICES SHOWN INDICATIVELY ONLY. THE CONTRACTOR SHALL IDENTIFY THE SERVICES ON SITE PRIOR COMMENCING CONSTRUCTION WORKS.



KEY PLAN

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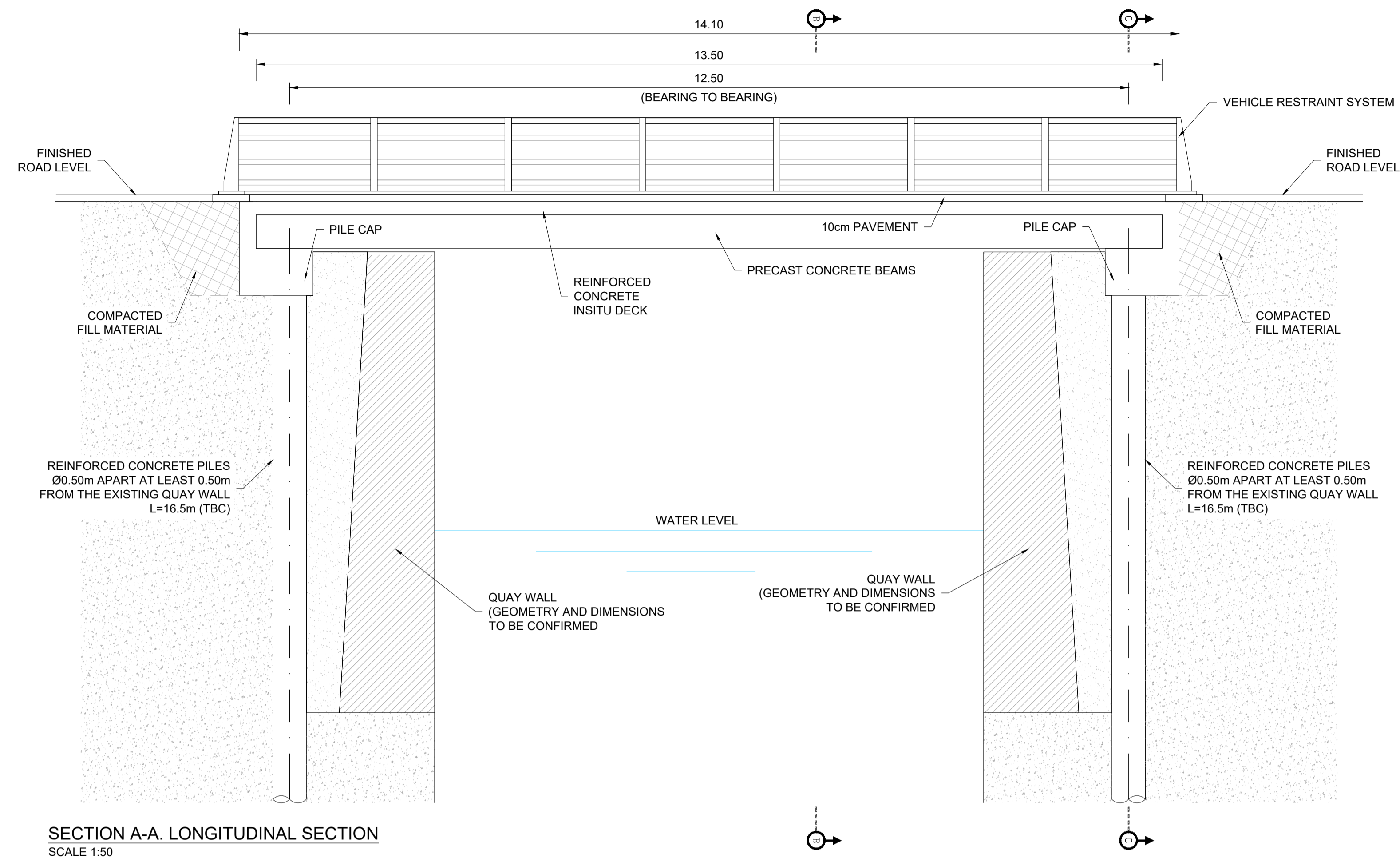
Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	JGE	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer PROD TYPSA		
Date 30/06/2022	Scale 1:100 @ A1 1:200 @ A3	Drawn JGE	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

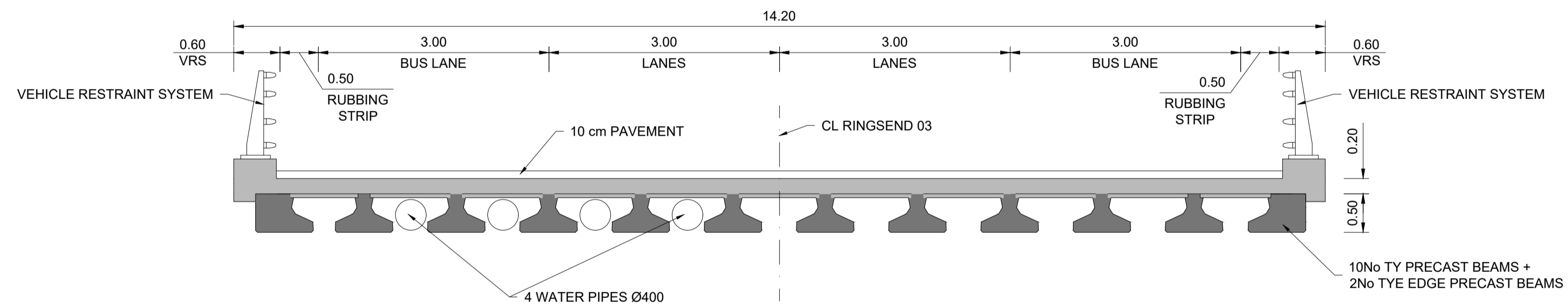
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Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0005	Sheet Number 01 of 02	Status A	Rev M01	

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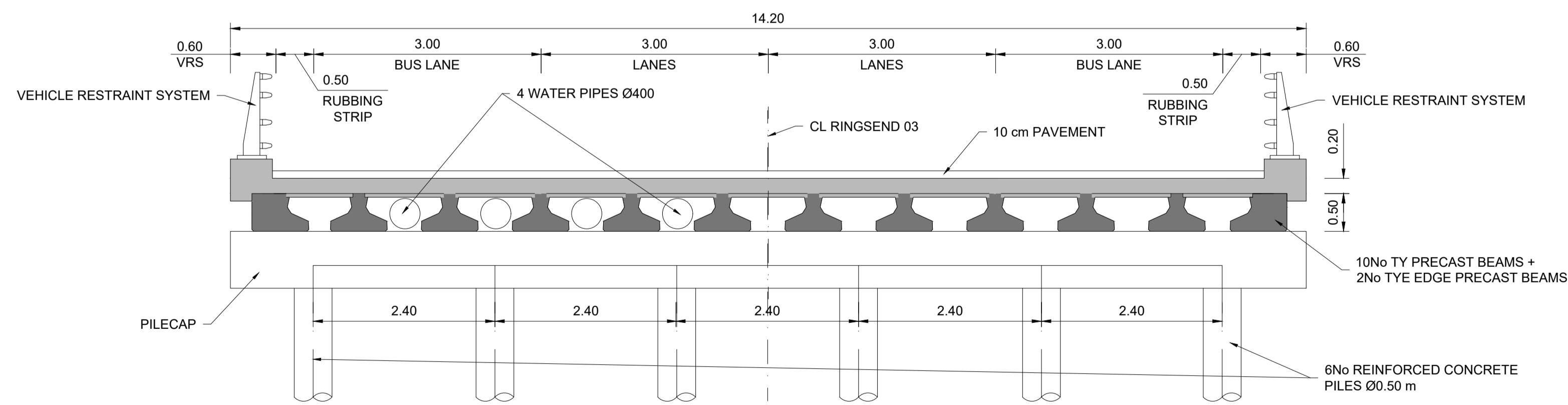
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SECTION A-A. LONGITUDINAL SECTION
SCALE 1:50



SECTION B-B. TYPICAL CROSS SECTION
SCALE 1:50



SECTION C-C. TYPICAL CROSS SECTION AT ABUTMENT
SCALE 1:50

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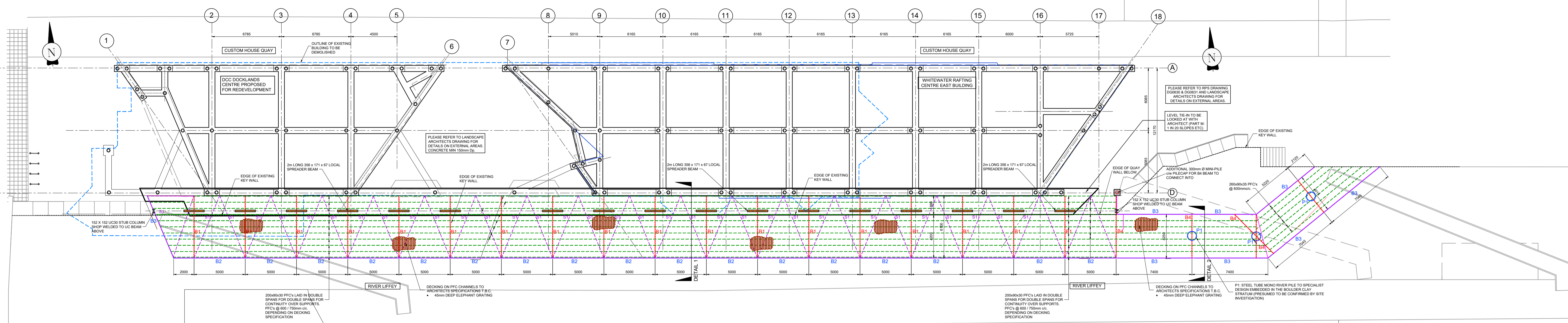
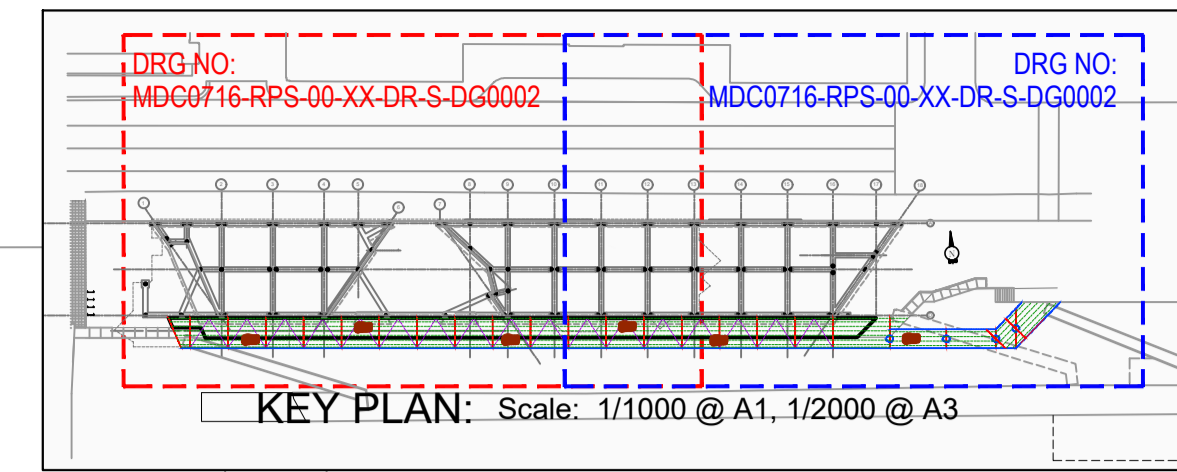
Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
PROD
TYPSA

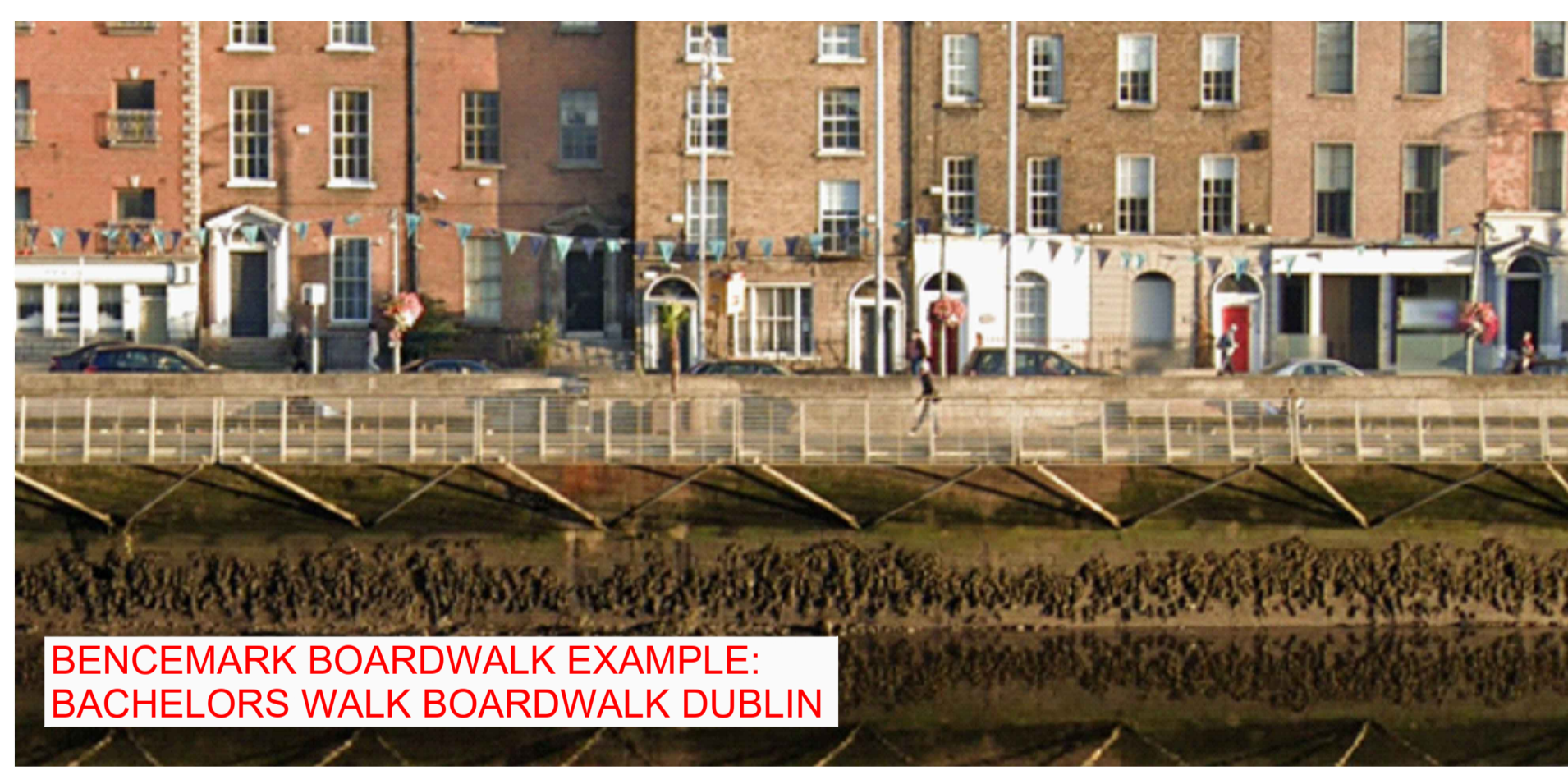
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Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES RINGSEND 03 - ROYAL CANAL BRIDGE - SECTIONS - SHEET 2 OF 2				
Date 30/06/2022	Scale 1:50 @ A1 1:100 @ A3	Drawn JGE	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0006	Sheet Number 02 of 02	Status A	Rev M01	

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STEELWORK LAYOUT PLAN - CUSTOM HOUSE QUAY WWRC BOARDWALK
Scale: 1/200 @ A1, 1/400 @ A3



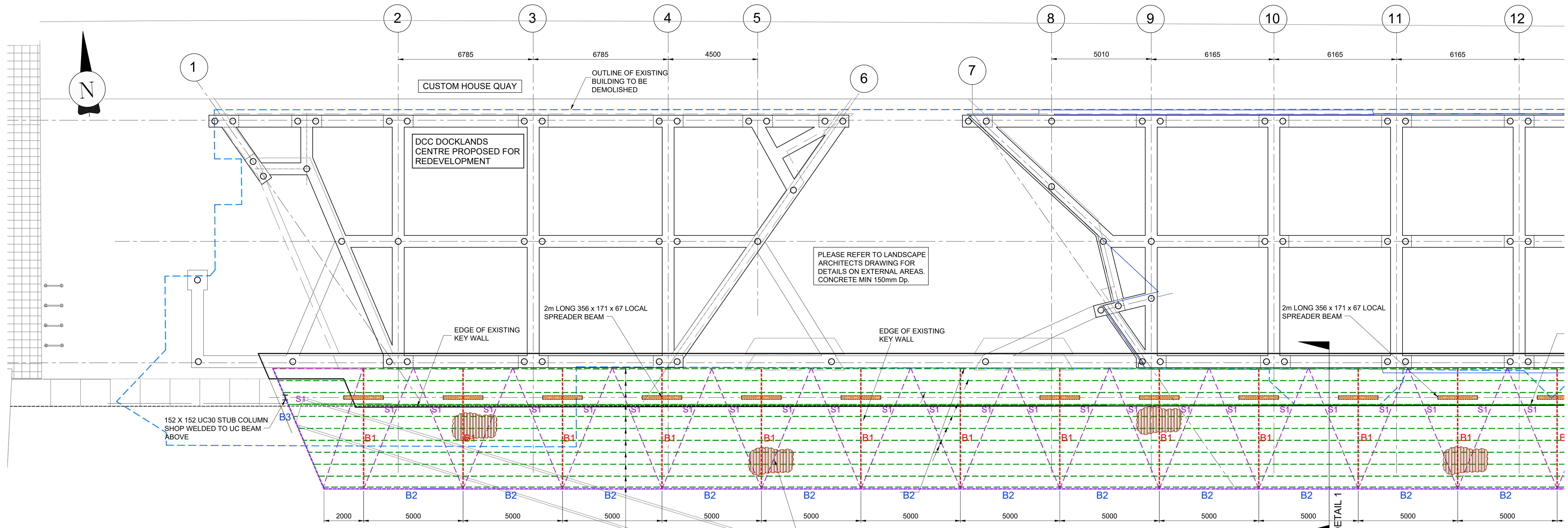
NOTES:

- ALL MILD STEEL IS TO BE HOT DIPPED GALVANISED TO ACHIEVE A C5M MARINE CORROSION RATING TO ISO12944 (WITH ETCH PRIMER AND DUPLEX COAT).
- STAINLESS STEEL TO BE EITHER GRADE 316L (EUROPEAN GRADE 1.4401) OR DUPLEX2205 (EUROPEAN GRADE 1.4462).
- NOTE STAINLESS STEEL WILL BE MORE EXPENSIVE THAN MILD STEEL AND MORE DIFFICULT TO PROCURE. OFFSET BY AESTHETICS AN SUPERIOR INHERENT CORROSION DESIGN.
- ALL SIZES AND LAYOUT SUBJECT TO CONFIRMATION BY DETAILED DESIGN.
- PEDESTRIAN LOADING ONLY ASSUMED ON BOARDWALK = 5.0kN/m²
- BALLUSTRADE TO BE DESIGNED FOR 3.0kN/m LINE LOAD AT 1100 ABOVE BOARDWALK LEVEL. STEELWORK DEFLECTION DESIGN ASSUMES BALUSTRADING COMPRISES STEELWORK (NOT GLASS).
- DECKING TO ARCHITECTS SPECIFICATION TO WITHSTAND 5.0kN/m² LIVE LOAD. OPTIONS ARE ELEFANT GRATING TYPE 05 OR 50mm DEEP EKKI PLANKS WITH ANTISLIP "STADIA" INSERT.
- ALL MILD STEEL = GRADE S355 WITH SUBGRADE TO SUIT EXTERNAL USE

BEAM LEGEND	MILD STEEL (S355)
B1 (OUTRIGGER BEAM)	356 x 406 UC340
B2 -5.0m. SPAN (TORSION RESISTING EDGE BEAM - FOR BALLISTRAD FIXING)	380x100x54 PFC
B3 -7.5m. SPAN (TORSION RESISTING EDGE BEAM - FOR BALLISTRAD FIXING)	254x254 UC107
B4 (CANTILEVER BEAM OVER MONO PILE)	254x254 UC89
S1 BRACING	75 x 75 RSA
2m LONG SPREADER BEAM	356 x 171 UB67

R:\MDC0716 - Proposed Boardwalk North Wall Quay\8.0 Drawings\DW\DC0716-RPS-00-XX-DR-S-DG0001.dwg

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				Rev	Date	By	App	Amendment / Issue															
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S0 P01.01	25.02.21	PH/DW		DRAFT ISSUE FOR REVIEW																			
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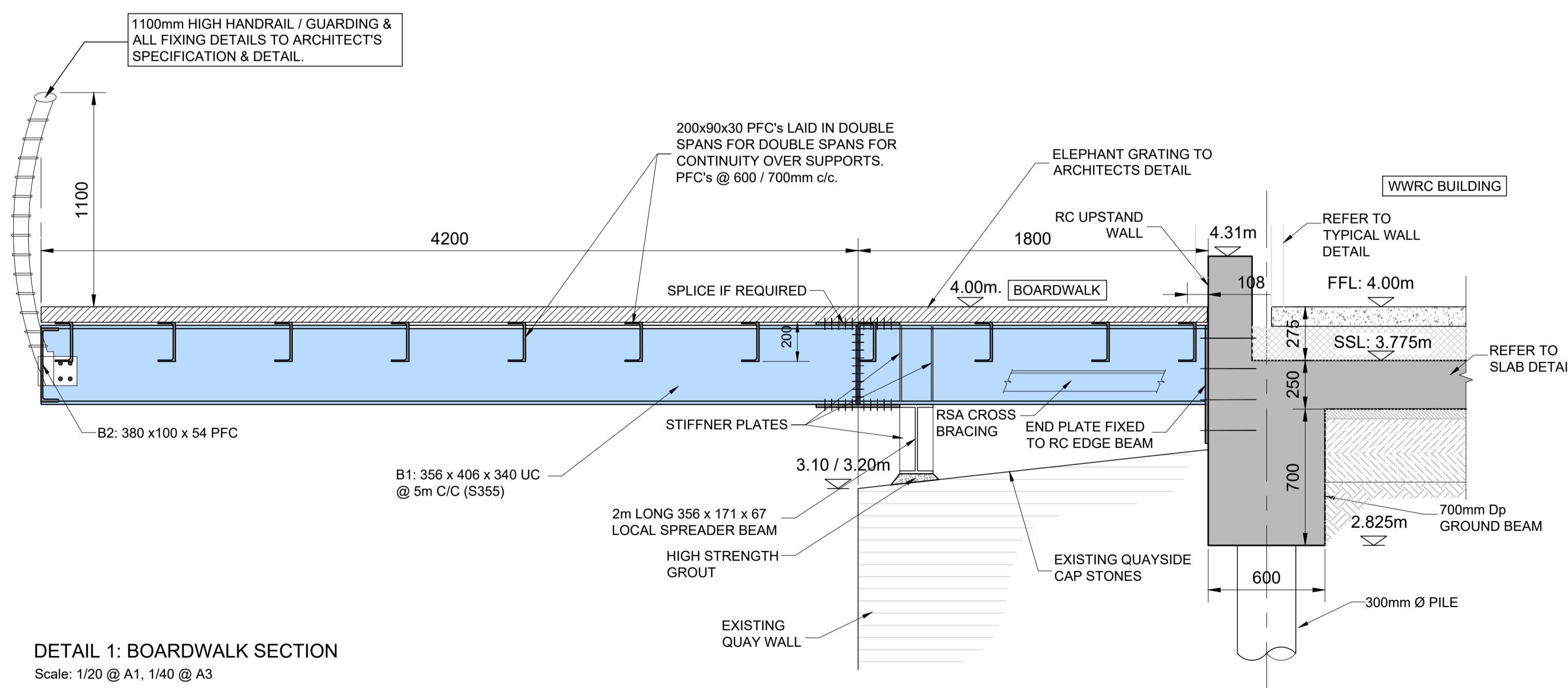


**WESTERN STEELWORK LAYOUT PLAN
CUSTOM HOUSE QUAY WWRC BOARDWALK**

Scale: 1/100 @ A1, 1/200 @ A3

**EASTERN STEELWORK LAYOUT PLAN
CUSTOM HOUSE QUAY WWRC BOARDWALK**

Scale: 1/100 @ A1, 1/200 @ A3

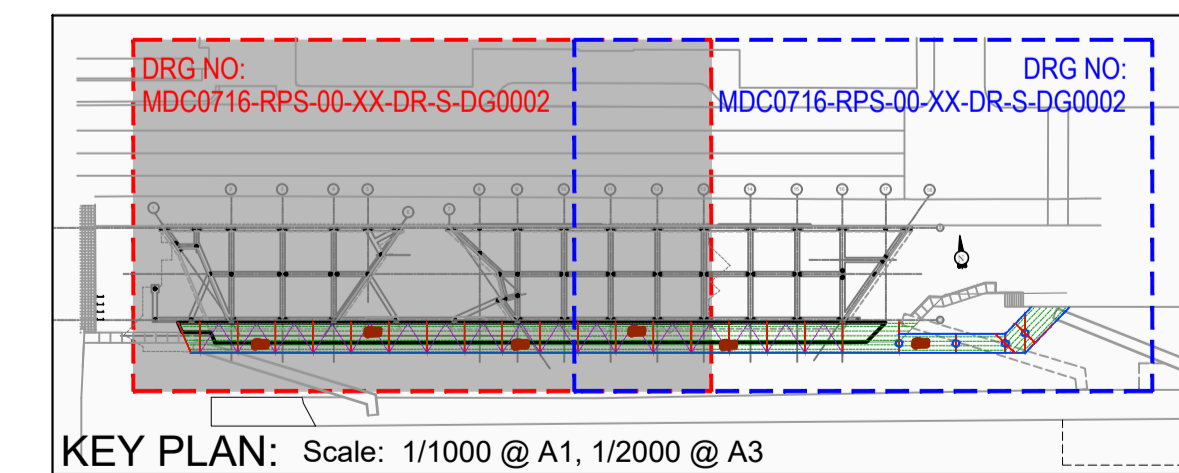


DETAIL 1: BOARDWALK SECTION
Scale: 1/20 @ A1, 1/40 @ A3

BEAM LEGEND	MILD STEEL (S355)
B1 (OUTRIGGER BEAM)	356 x 406 UC340
B2 -5.0m. SPAN (TORSION RESISTING EDGE BEAM - FOR BALLISTRAD FIXING)	380x100x54 PFC
B3 -7.5m. SPAN (TORSION RESISTING EDGE BEAM - FOR BALLISTRAD FIXING)	254x254 UC107
B4 (CANTILEVER BEAM OVER MONO PILE)	254x254 UC89
S1 BRACING	75 x 75 RSA
2m LONG SPREADER BEAM	356 x 171 UB67

NOTES:

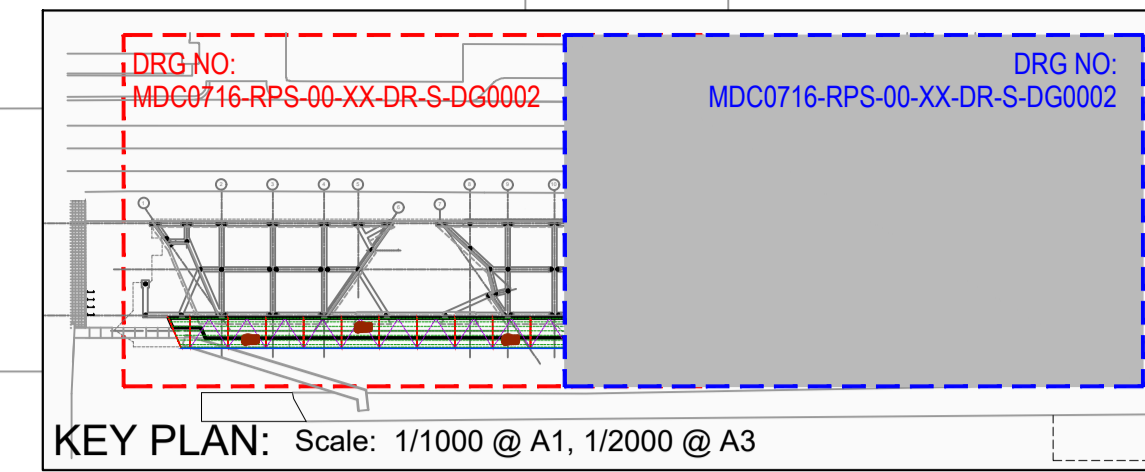
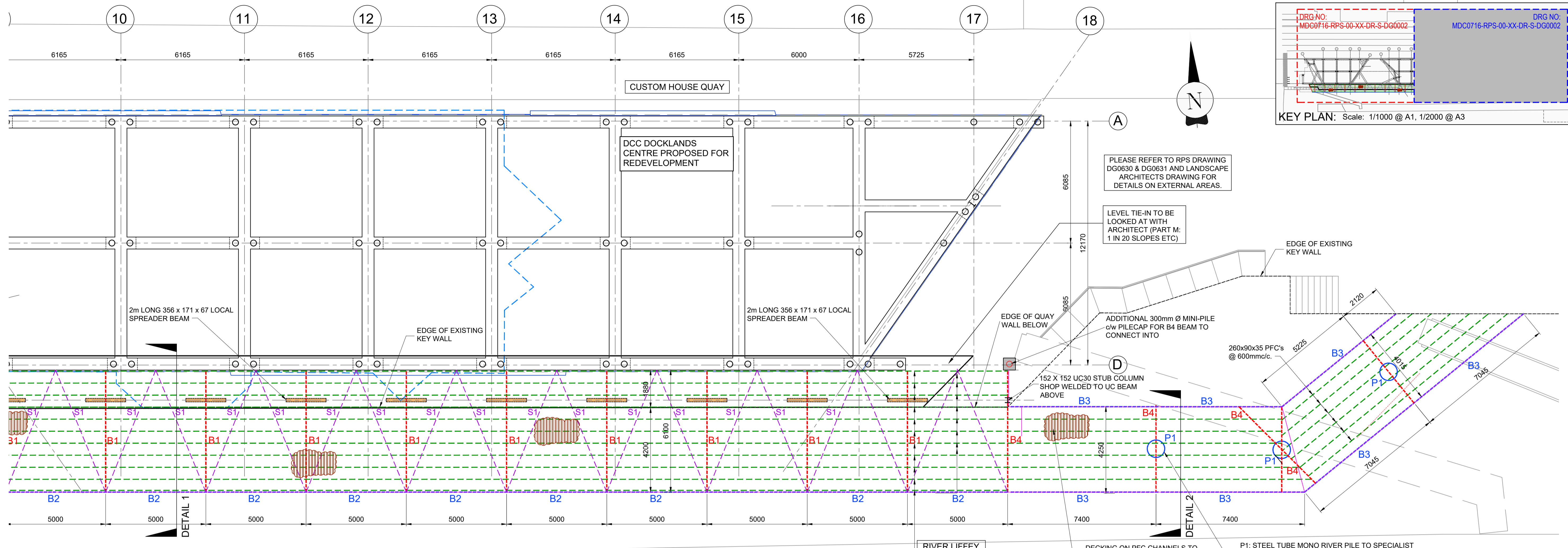
- ALL MILD STEEL IS TO BE HOT DIPPED GALVANISED TO ACHIEVE A C5M MARINE CORROSION RATING TO ISO12944 (WITH ETCH PRIMER AND DUPLEX COAT).
- STAINLESS STEEL TO BE EITHER GRADE 316L (EUROPEAN GRADE 1.4401) OR DUPLEX2205 (EUROPEAN GRADE 1.4462).
- NOTE STAINLESS STEEL WILL BE MORE EXPENSIVE THAN MILD STEEL AND MORE DIFFICULT TO PROCURE. OFFSET BY ASTHETICS AN SUPERIOR INHERENT CORROSION DESIGN.
- ALL SIZES AND LAYOUT SUBJECT TO CONFIRMATION BY DETAILED DESIGN.
- PEDESTRIAN LOADING ONLY ASSUMED ON BOARDWALK = 5.0kN/m²
- BALLISTRAD TO BE DESIGNED FOR 3.0kN/m LINE LOAD AT 1100 ABOVE BOARDWALK LEVEL. STEELWORK DEFLECTION DESIGN ASSUMES BALUSTRADING COMPRISES STEELWORK (NOT GLASS).
- DECKING TO ARCHITECTS SPECIFICATION TO WITHSTAND 5.0kN/m² LIVE LOAD. OPTIONS ARE ELEFANT GRATING TYPE 05 OR 50mm DEEP EKKI PLANKS WITH ANTISLIP "STADIA" INSERT.
- ALL MILD STEEL = GRADE S355 WITH SUBGRADE TO SUIT EXTERNAL USE



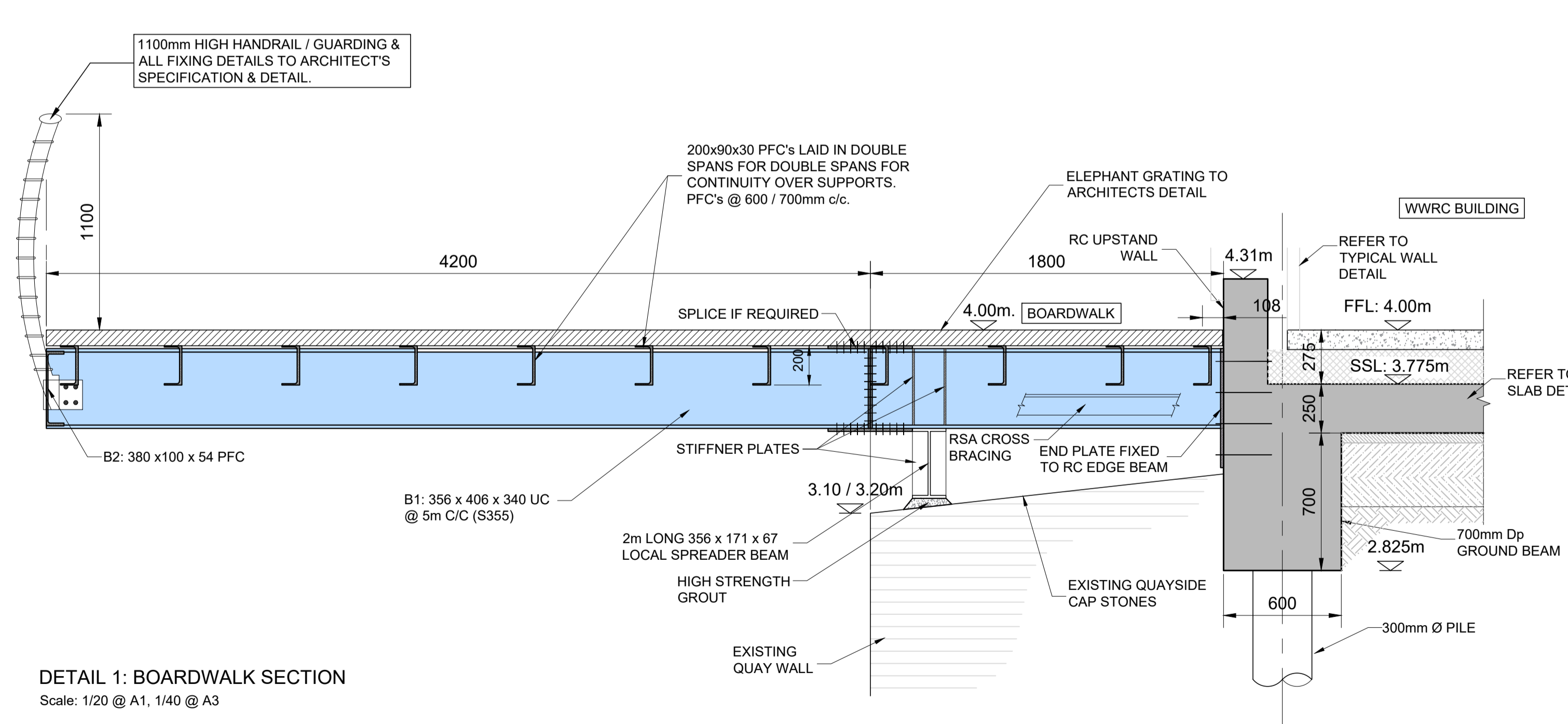
KEY PLAN: Scale: 1/1000 @ A1, 1/2000 @ A3

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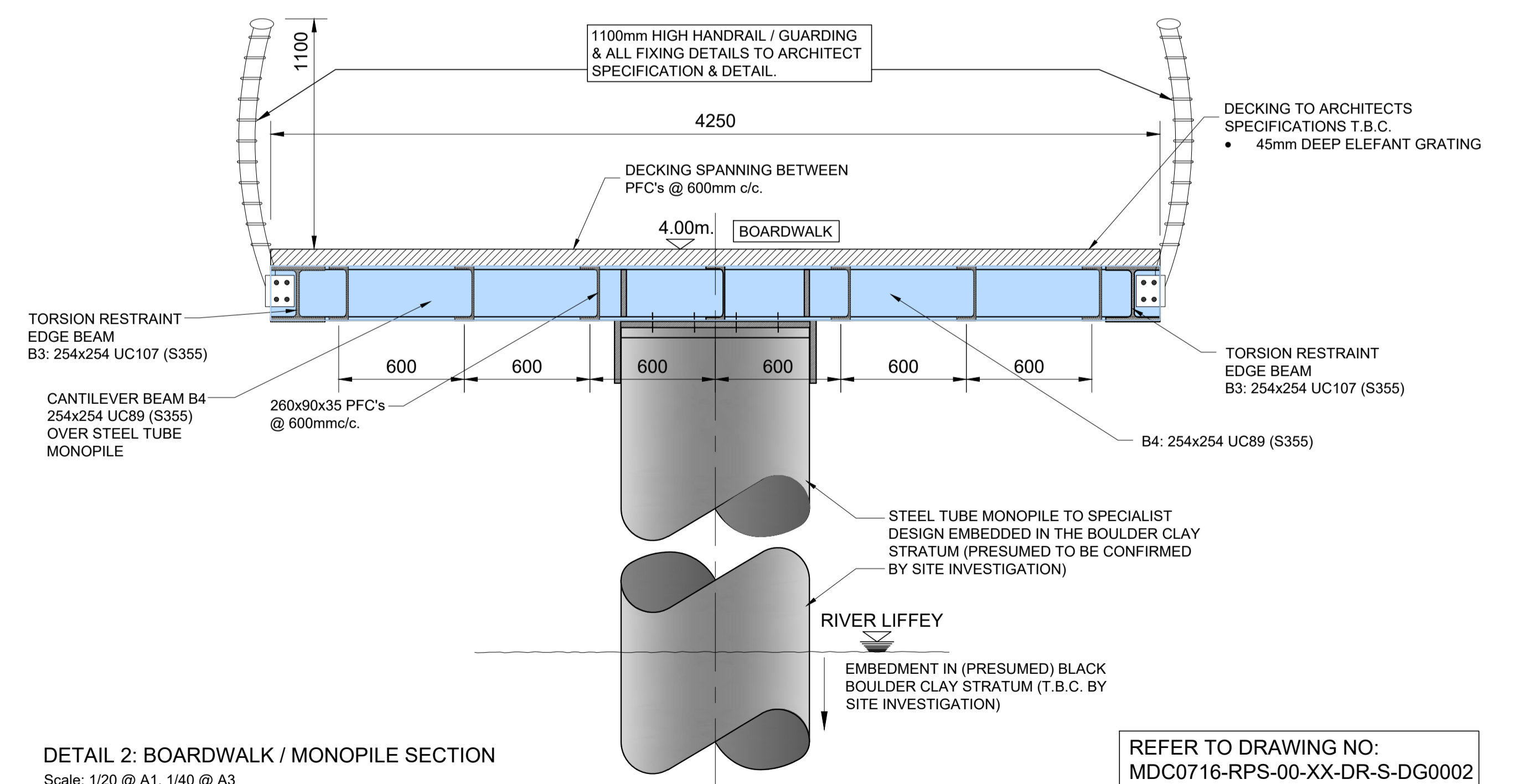
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EASTERN STEELWORK LAYOUT PLAN
CUSTOM HOUSE QUAY WWRC BOARDWALK
 Scale: 1/100 @ A1, 1/200 @ A3



DETAIL 1: BOARDWALK SECTION
 Scale: 1/20 @ A1, 1/40 @ A3



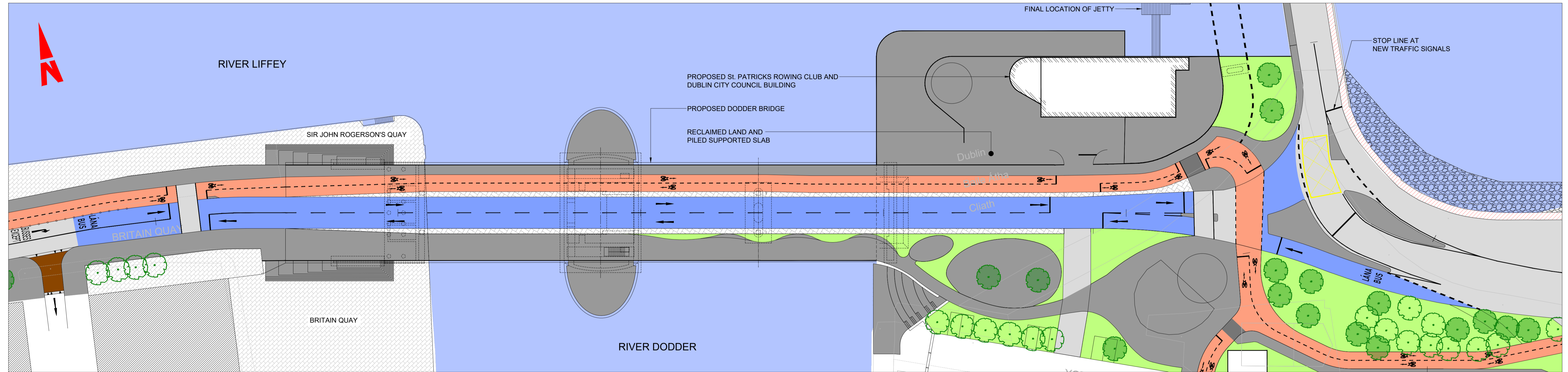
DETAIL 2: BOARDWALK / MONOPILE SECTION
 Scale: 1/20 @ A1, 1/40 @ A3

REFER TO DRAWING NO:
 MDC0716-RPS-00-XX-DR-S-DG0002
 FOR STRUCTURAL NOTES AND
 SECTION SIZES

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PLAN
SCALE 1:400 A1
SCALE 1:800 A3

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Client
NTA
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
FIROD
TYPSA

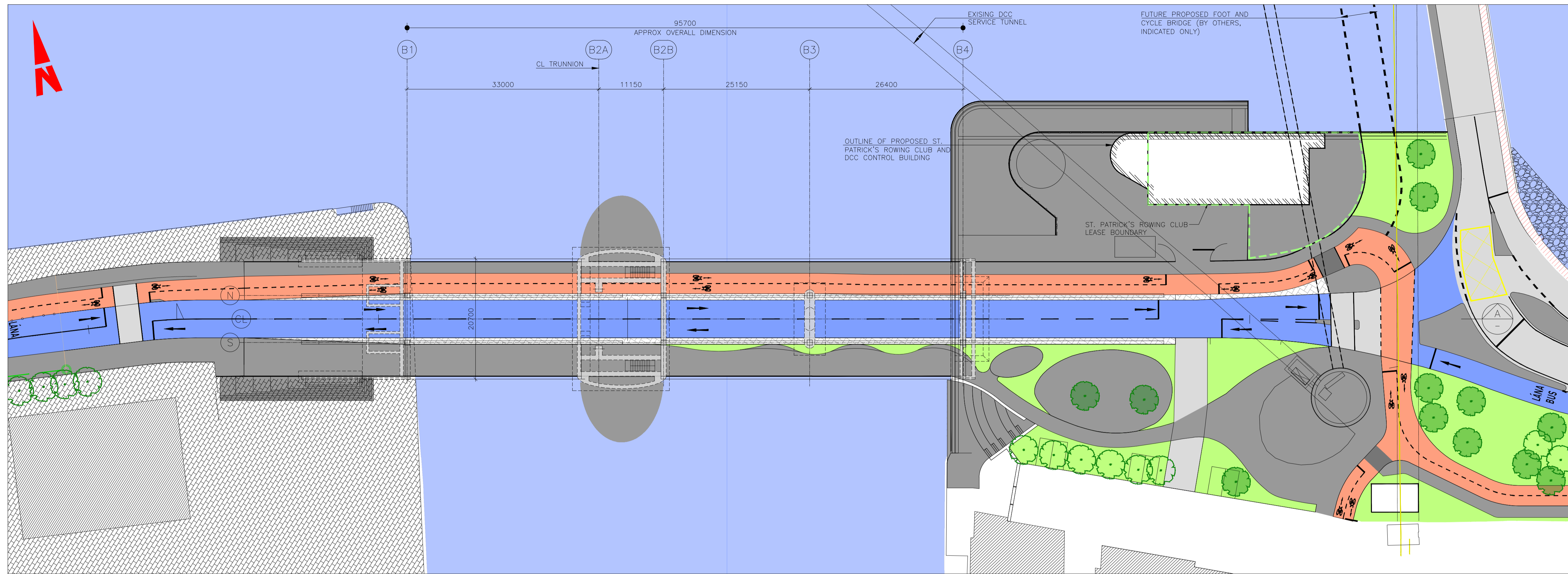
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Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

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

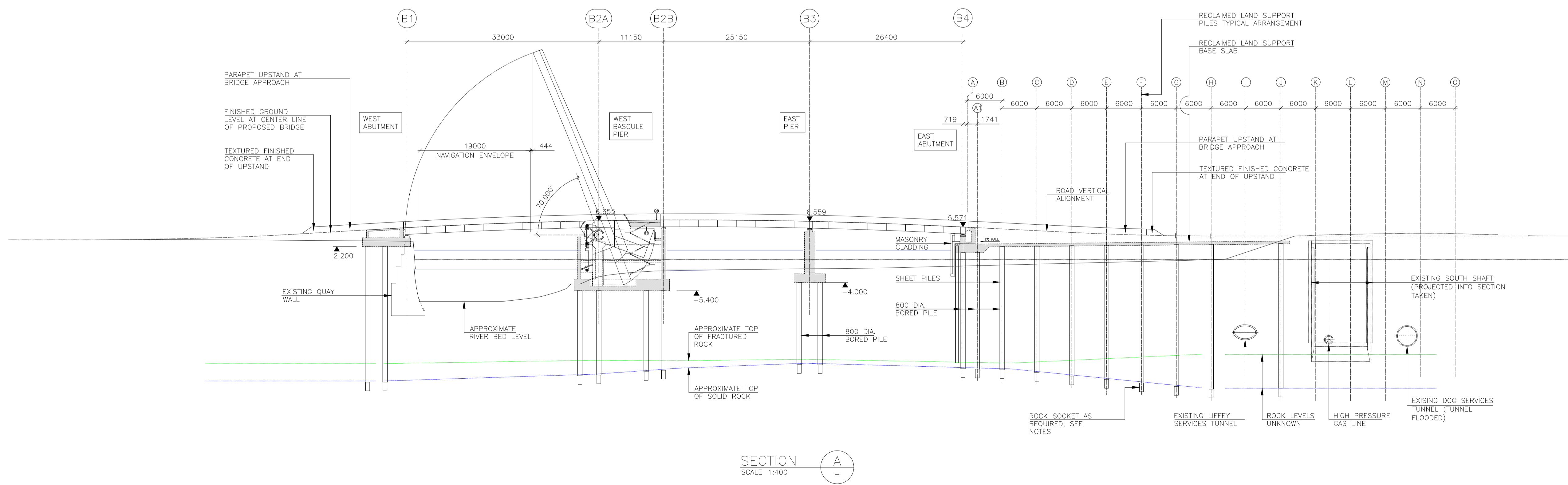
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RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME
STRUCTURES
RINGSEND 05 - DODDER (OPENING) BRIDGE - OVERALL PLAN

Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0009	09 of 20	A	M01

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GENERAL SUBSTRUCTURE BRIDGE PLAN
SCALE 1:400



SECTION A
SCALE 1:400

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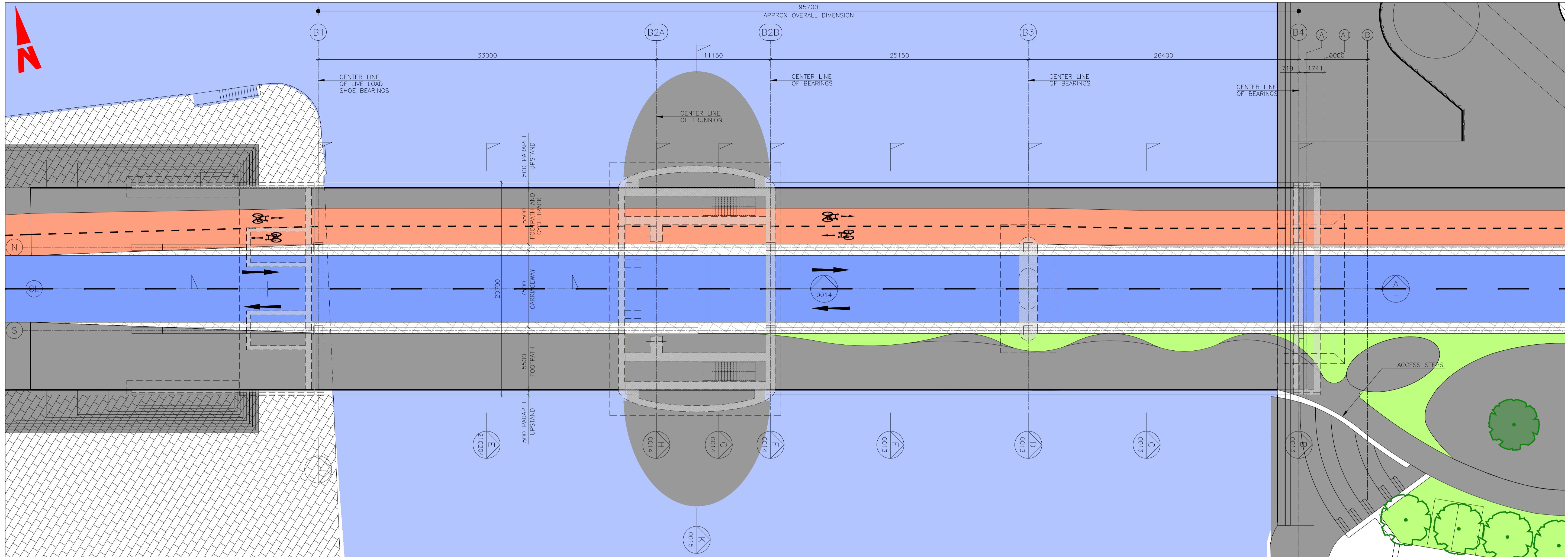
Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
CIROD
 TYPISA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES RINGSEND 05 - DODDER (OPENING) BRIDGE - PLAN & LONGSECTION - SHEET 1 OF 6	
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Status A	Rev M01

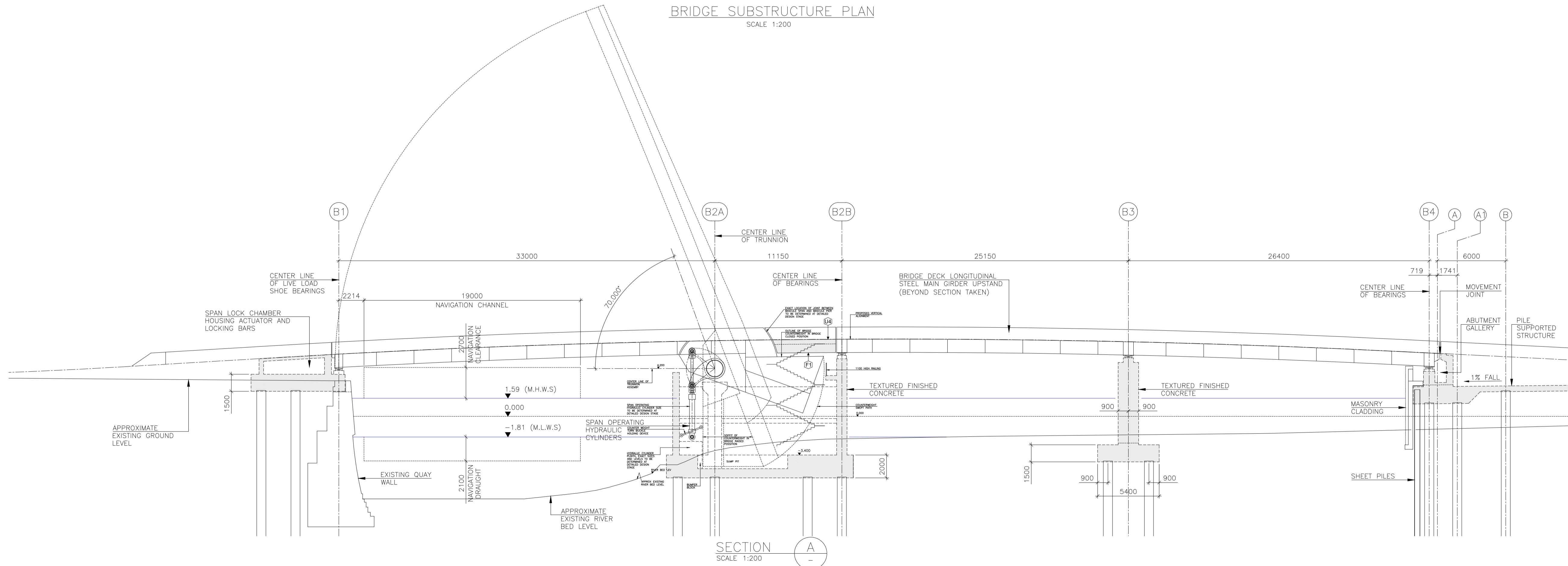
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Programme Code BCIDD	Originator Code ROT	QMS Code		

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BRIDGE SUBSTRUCTURE PLAN

SCALE 1:200



SECTION A

SCALE 1:200

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 National Transport Authority

Engineering Designer
FIROD
 TYPSA

Date	Scale	Drawn	Checked	Approved
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Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

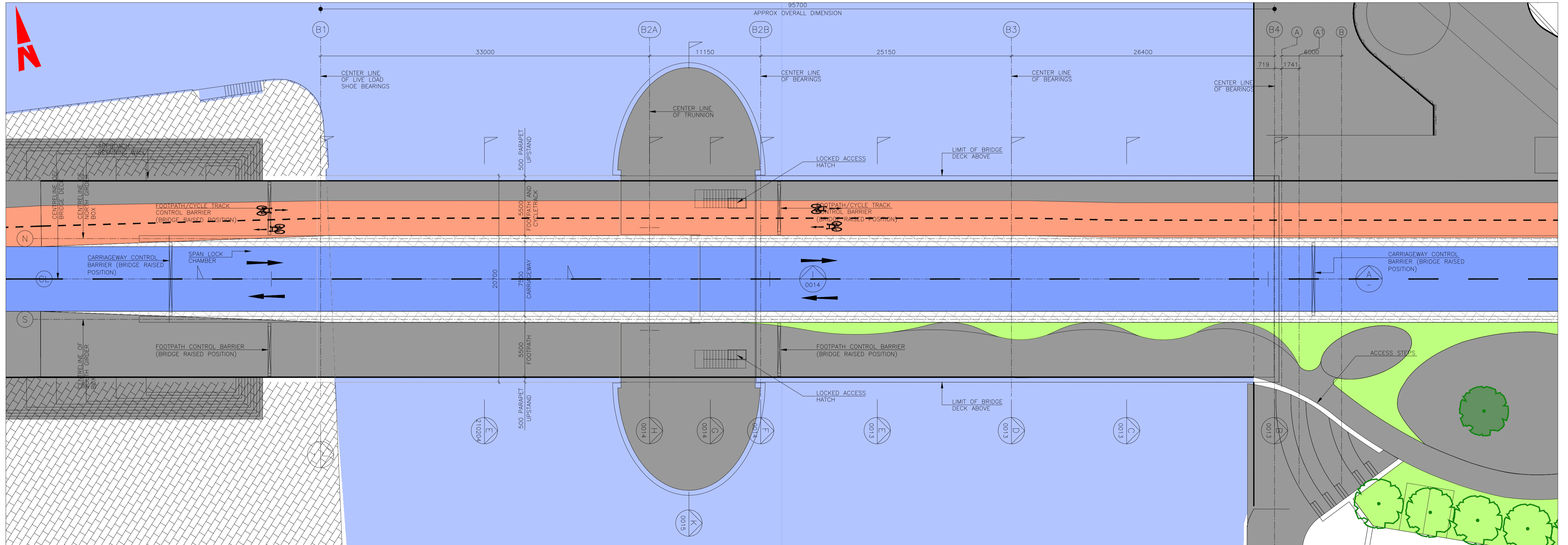
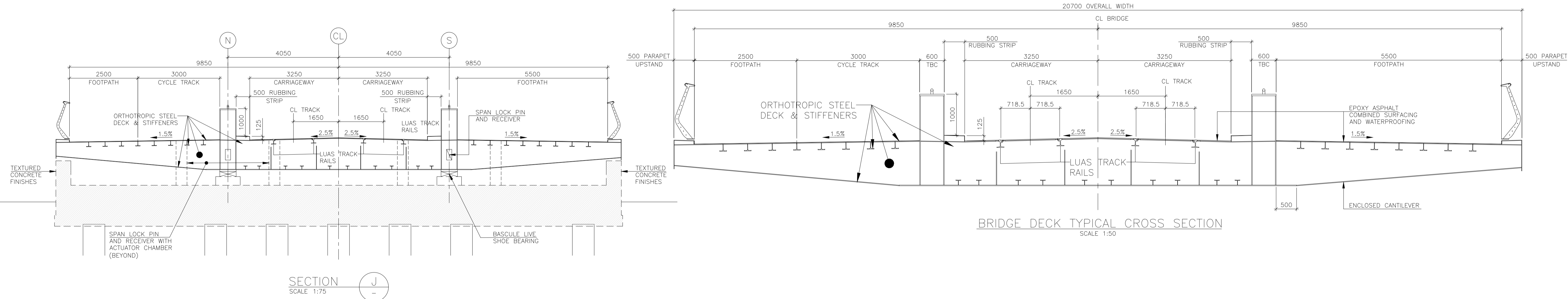
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BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
 RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME
 STRUCTURES
 RINGSEND 05 - DODDER (OPENING) BRIDGE - PLAN & LONGSECTION - SHEET 2 OF 6

Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0011	11 of 20	A	M01

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NTA
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 National Transport Authority

Engineering Designer
FIROD
 TYPISA

Date: 30/06/2022
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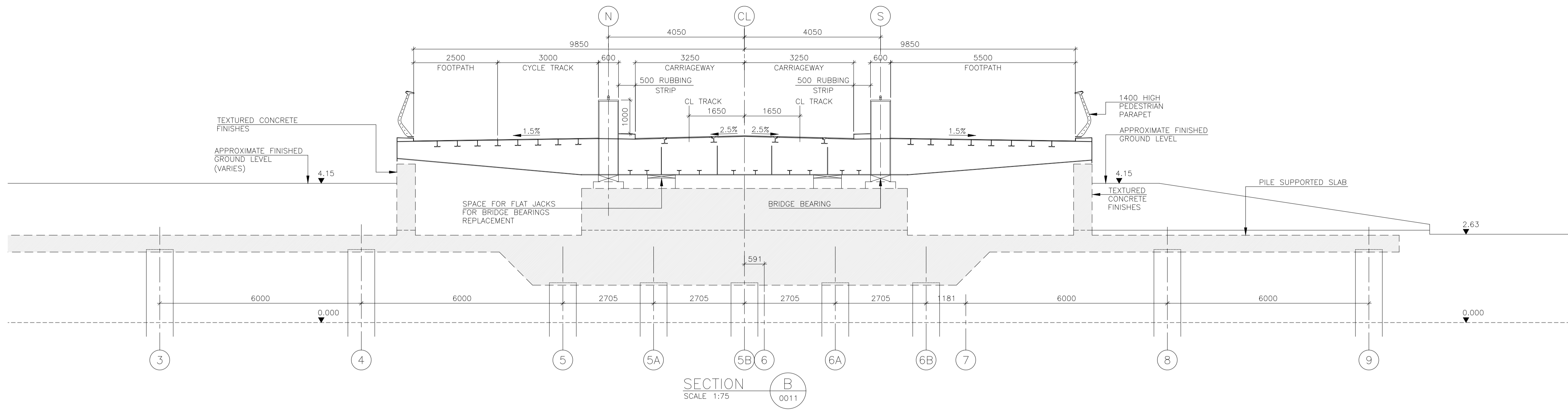
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**BUSCONNECTS DUBLIN
 CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title
 RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME
 STRUCTURES
 RINGSEND 05 - DODDER (OPENING) BRIDGE - PLAN & CROSS SECTIONS - SHEET 3 OF 6

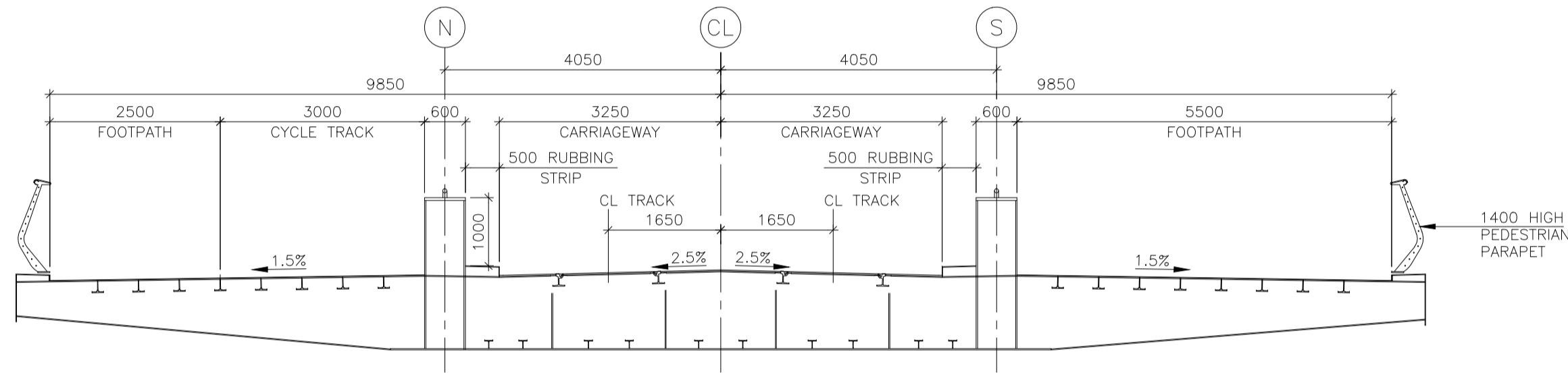
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 Sheet Number: 12 of 20
 Status: A
 Rev: M01

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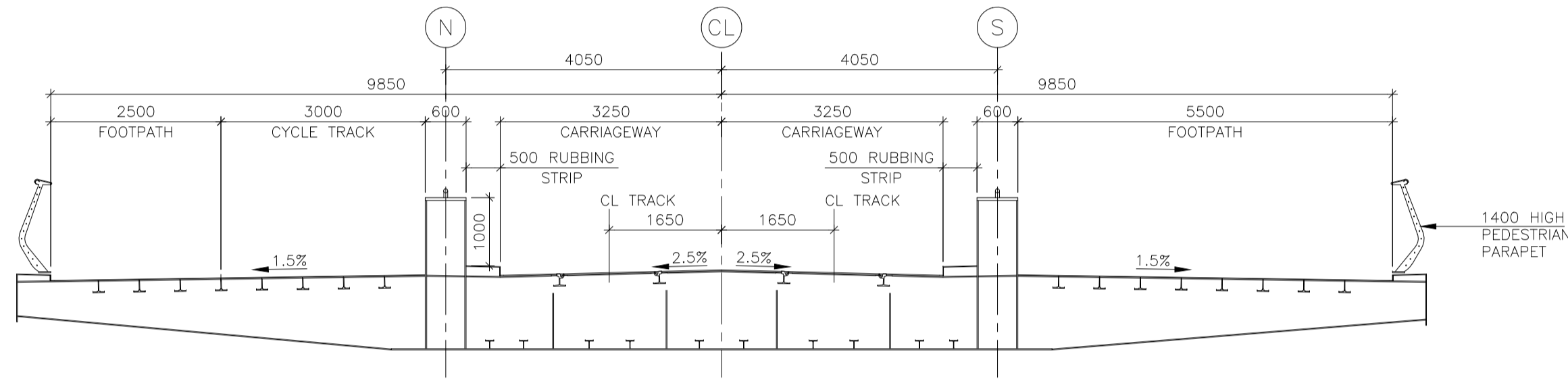
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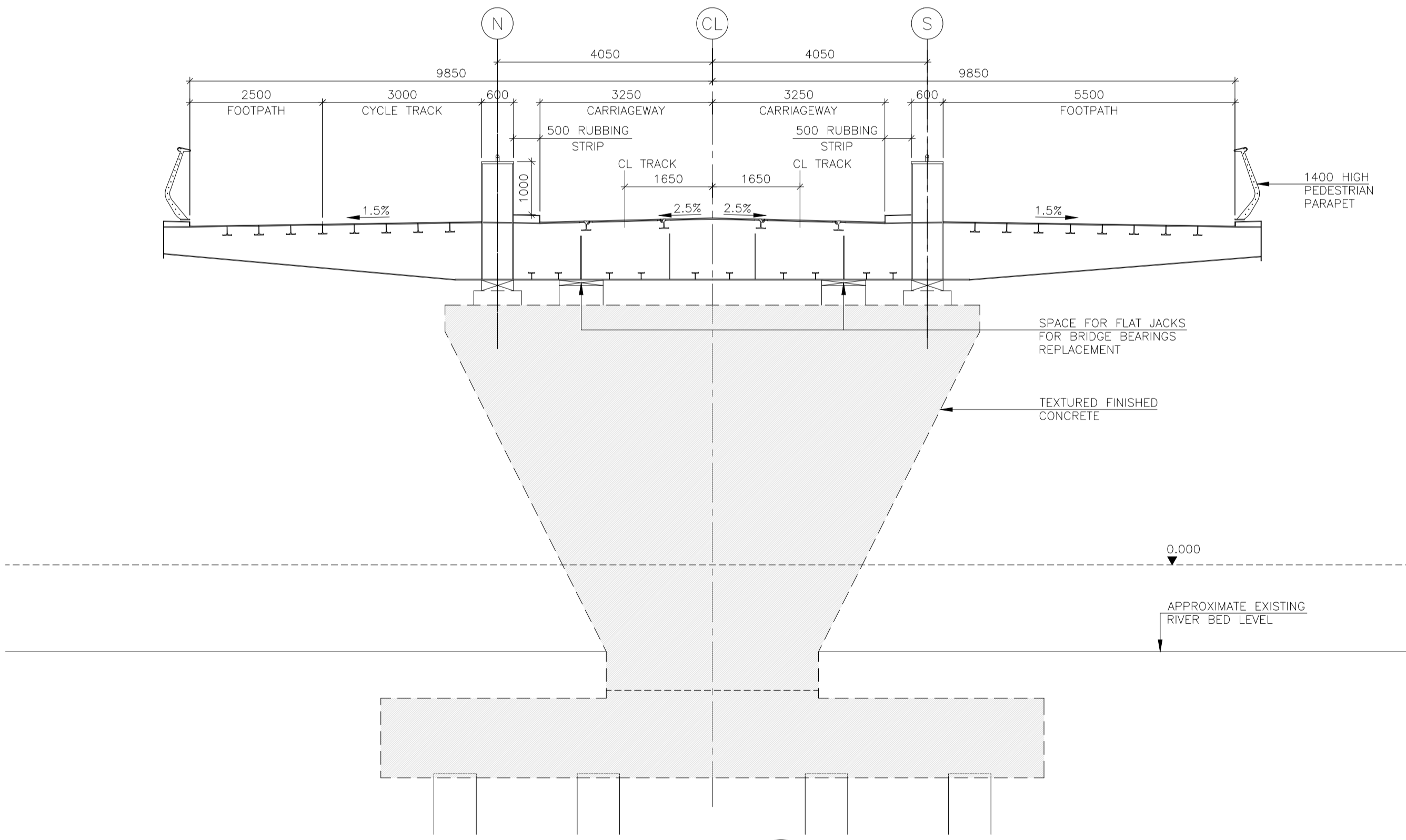
SECTION B
SCALE 1:75
0011



SECTION C
SCALE 1:75
0011



SECTION E
SCALE 1:75
0011



SECTION D
SCALE 1:75
0011

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Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	OB	JK	SMG	ISSUED FOR PHASE 4: PLANNING

Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
FIROD
 TYPSA

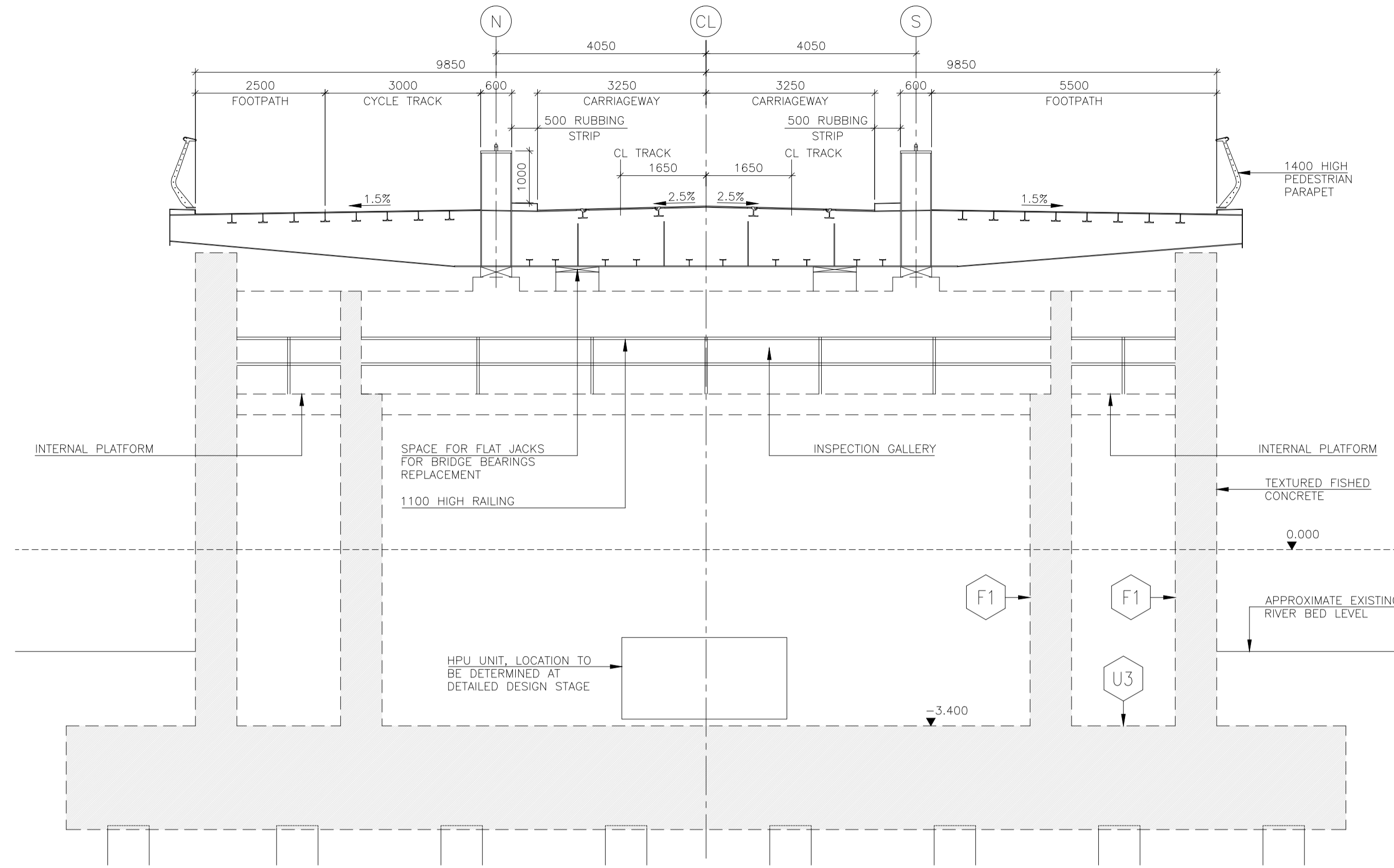
Programme Title
**BUSCONNECTS DUBLIN
 CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title
 RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME
 STRUCTURES
 RINGSEND 05 - DODDER (OPENING) BRIDGE - CROSS SECTIONS - SHEET 4 OF 6

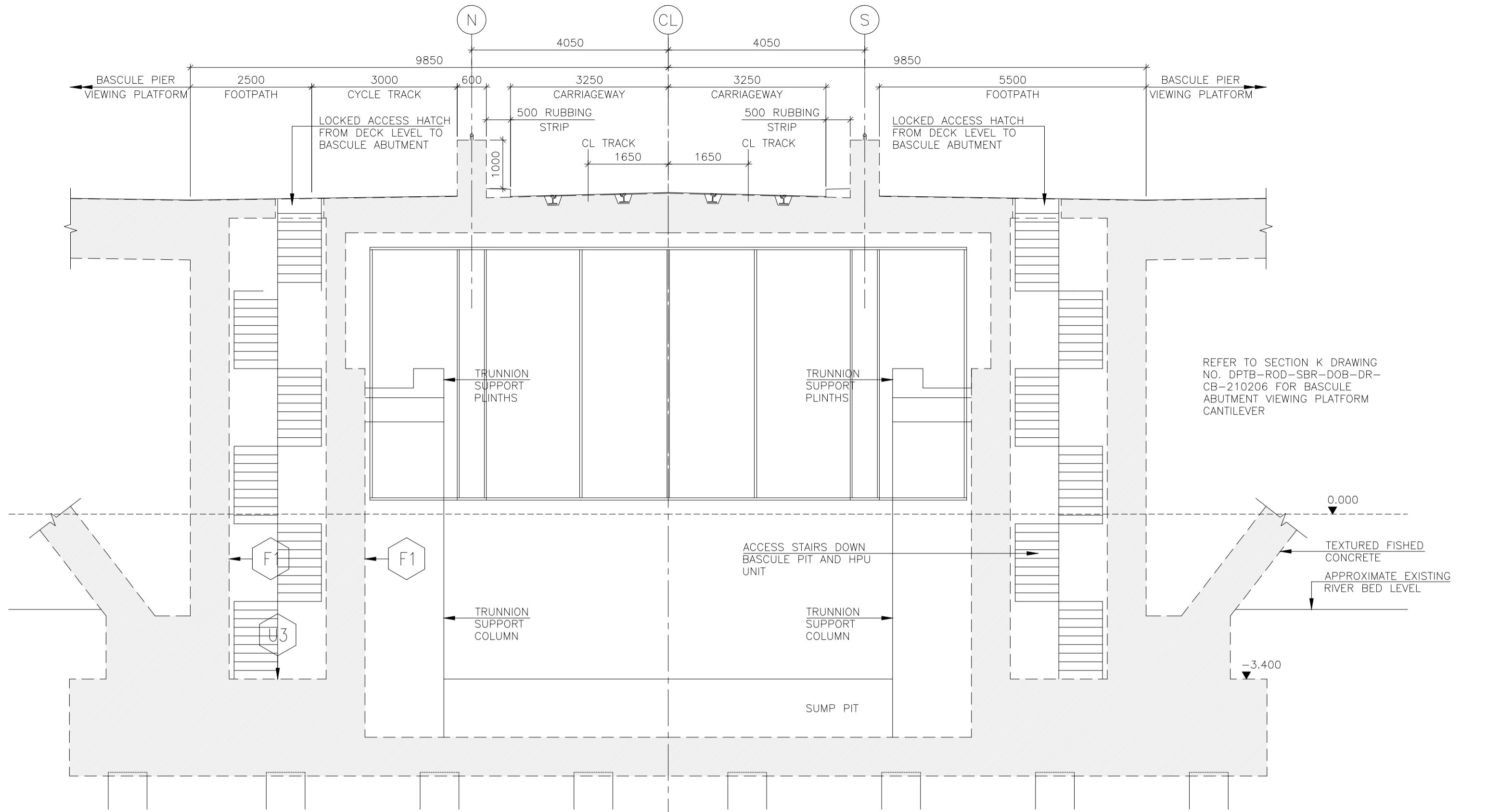
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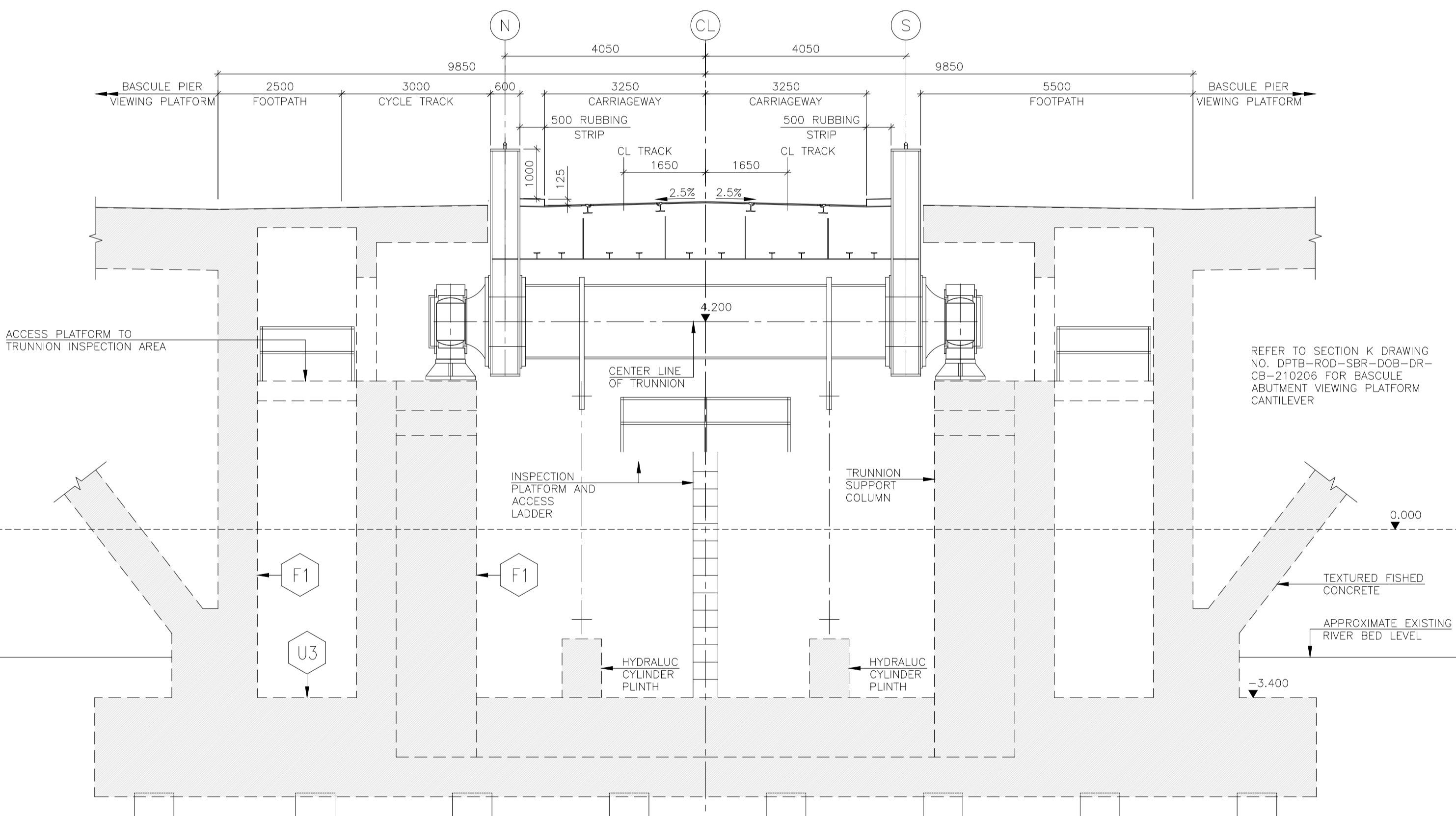
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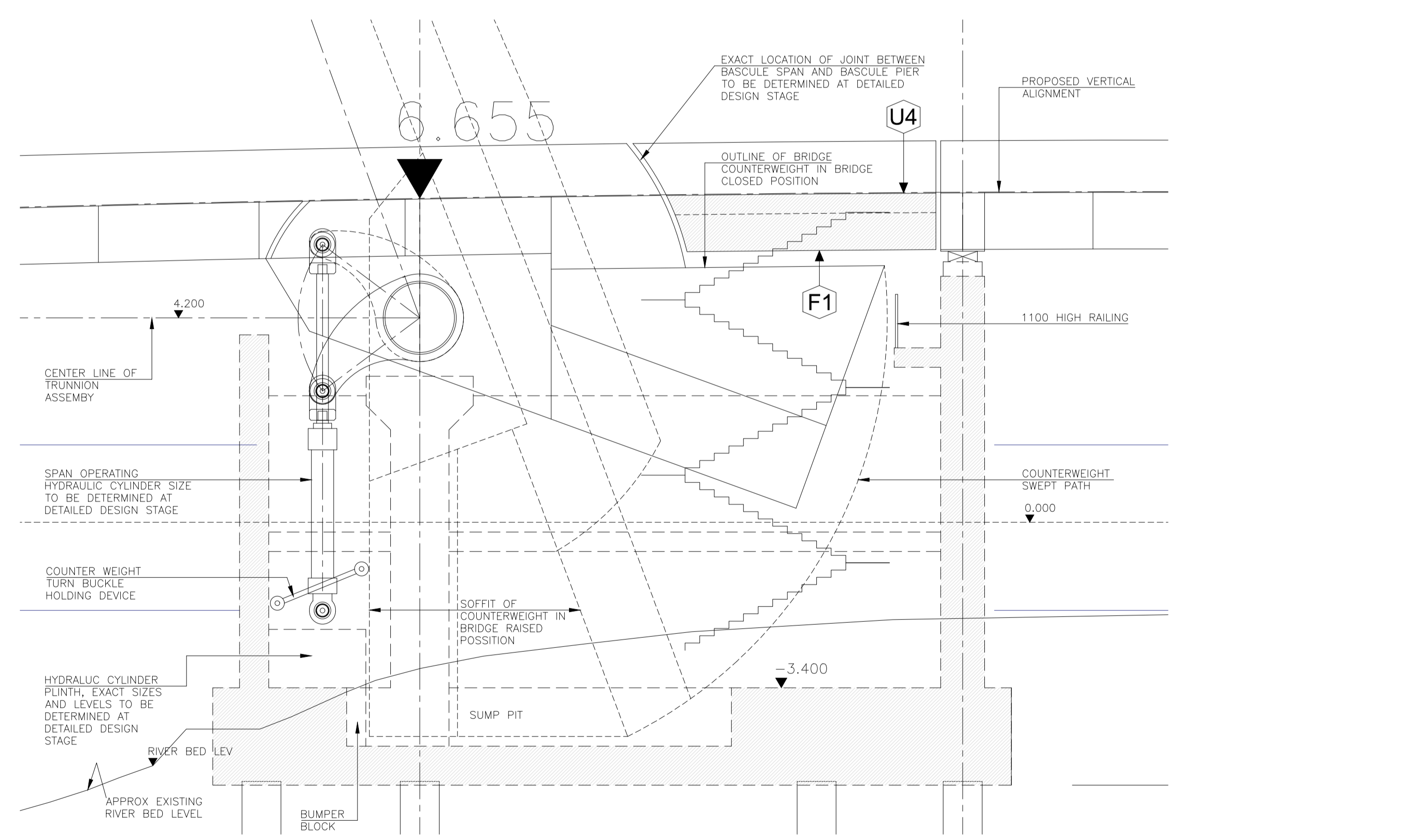
SECTION F
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SECTION G
SCALE 1:75
0011



SECTION H
SCALE 1:75
0011



SECTION I
SCALE 1:75
0011

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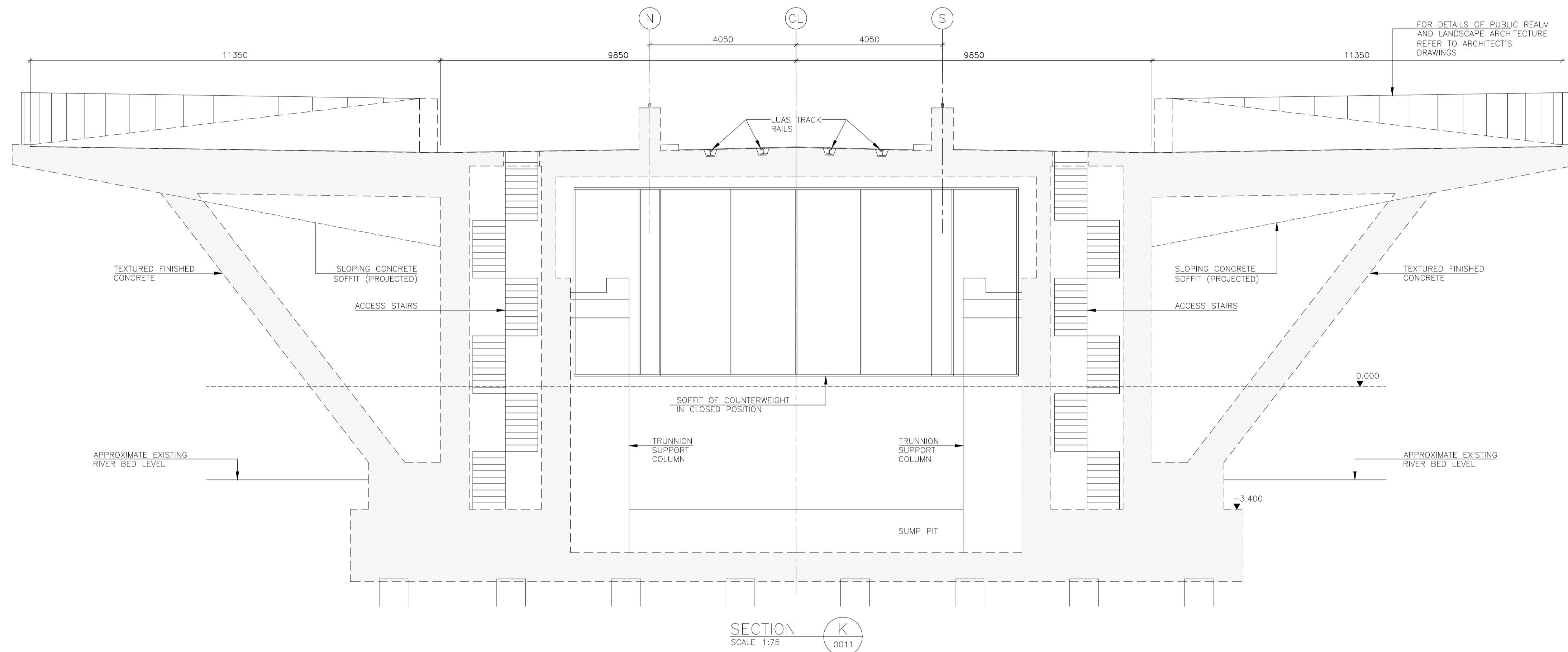
Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	OB	JK	SMG	ISSUED FOR PHASE 4: PLANNING

Client NTA Udárás Náisiúnta Iompair National Transport Authority		Engineering Designer FIROD TYPSA		
Date 30/06/2022	Scale 1:75 @ A1 1:150 @ A3	Drawn OB	Checked JK	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 STRUCTURES RINGSEND 05 - DODDER (OPENING) BRIDGE - CROSS SECTIONS - SHEET 5 OF 6				
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0014	Sheet Number 14 of 20	Status A	Rev M01	

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SECTION K
SCALE 1:75

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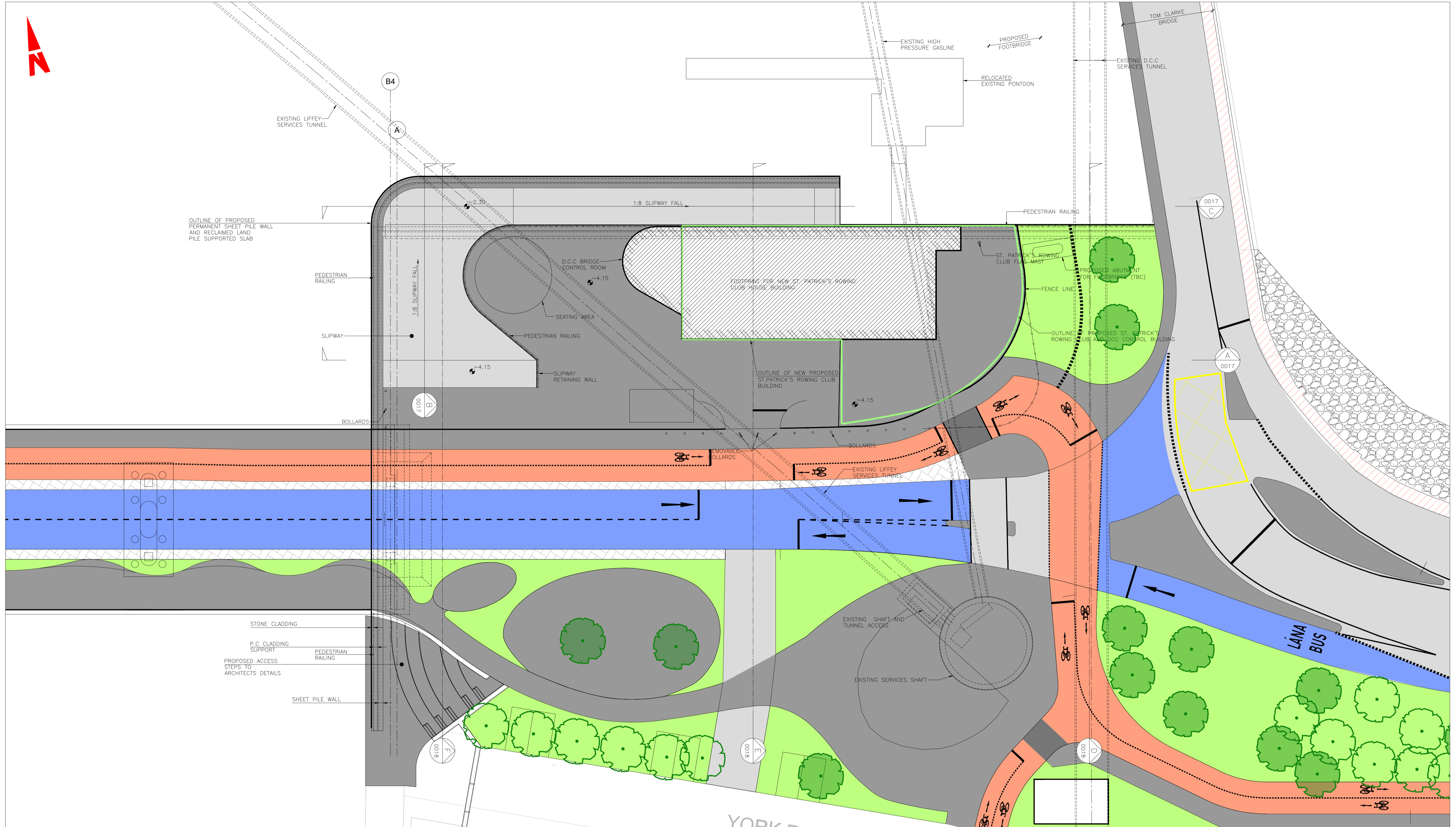


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Client Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer TYPISA		
Date	Scale	Drawn	Checked	Approved
30/06/2022	1:75 @ A1 1:150 @ A3	OB	JK	SMG
Programme Code	Originator Code	QMS Code		
BCIDD	ROT			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES RINGSEND 05 - DODDER (OPENING) BRIDGE - CROSS SECTIONS - SHEET 6 OF 6			
Drawing File Name	Sheet Number	Status	Rev
BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0015	15 of 20	A	M01

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RECLAIMED LAND LAYOUT
 SCALE 1:200 A1
 SCALE 1:400 A3

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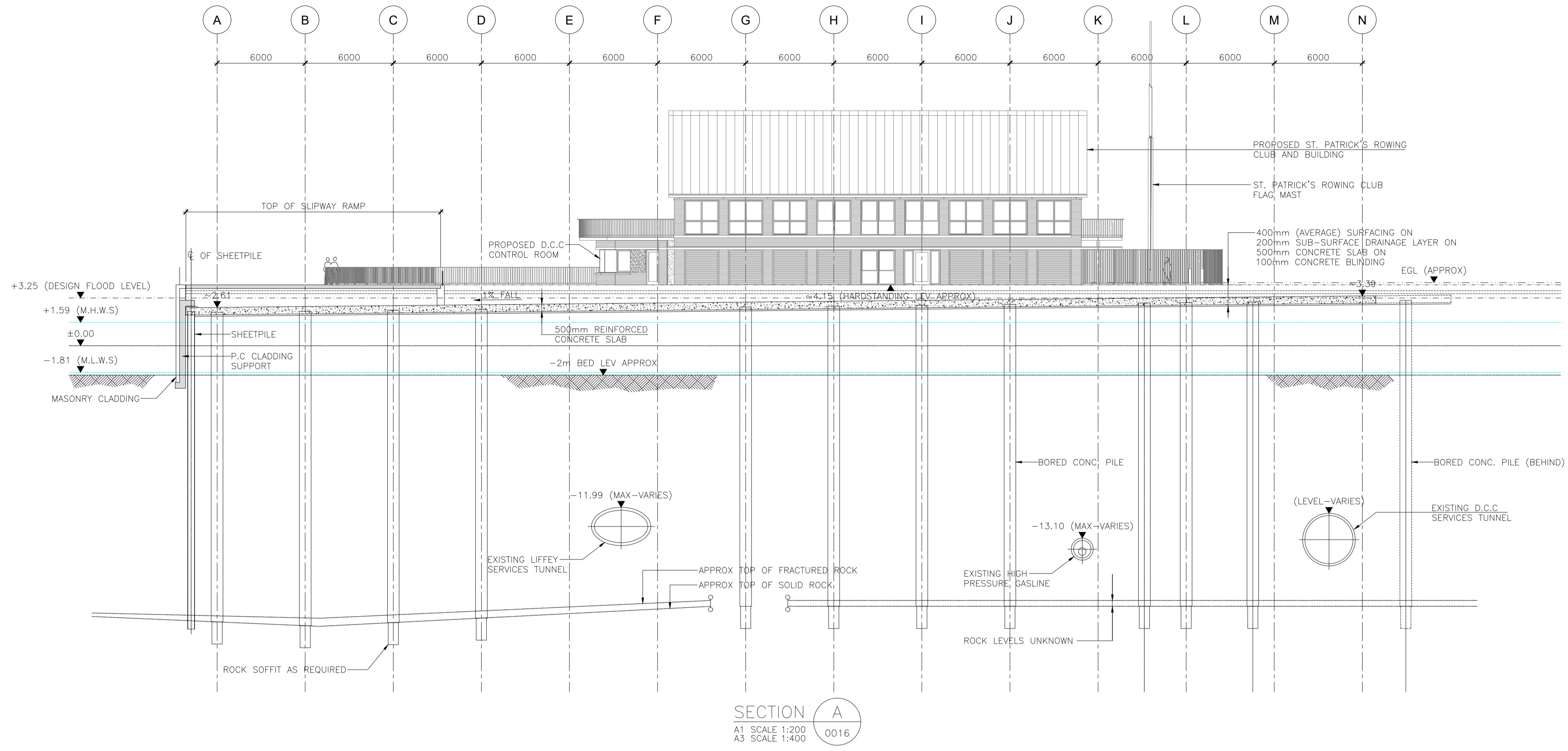
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M01	30/06/2022	OB	JK	SMG	ISSUED FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer CIROD TYPSA		
Date 30/06/2022	Scale 1:200 @ A1 1:400 @ A3	Drawn OB	Checked JK	Approved SMG
Programme Code BCIDD	Originator Code ROT	QMS Code		

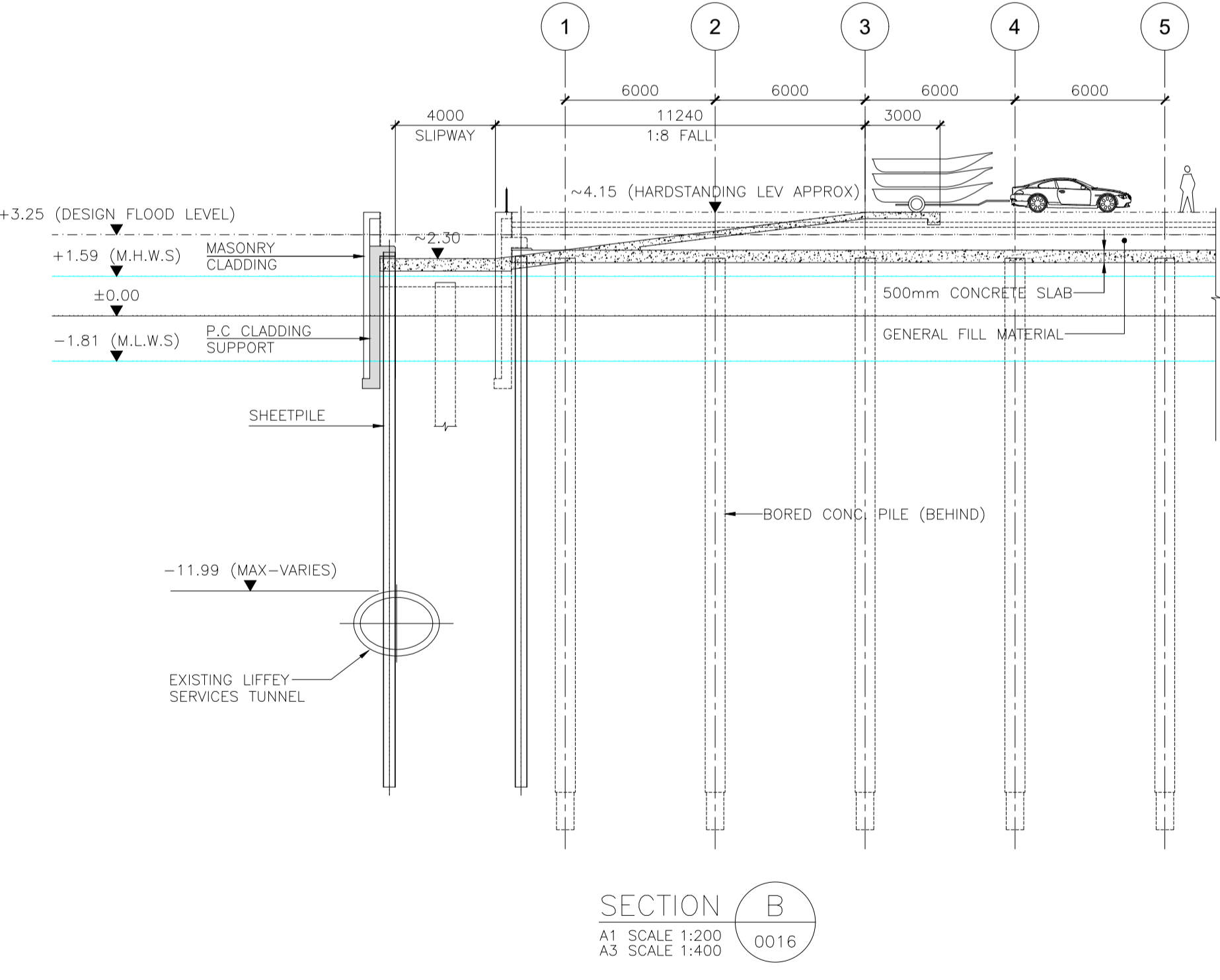
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Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES RINGSEND RECLAIMED LAND - PLAN LAYOUT - SHEET 1 OF 3				
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0016	Sheet Number 16 of 20	Status A	Rev M01	

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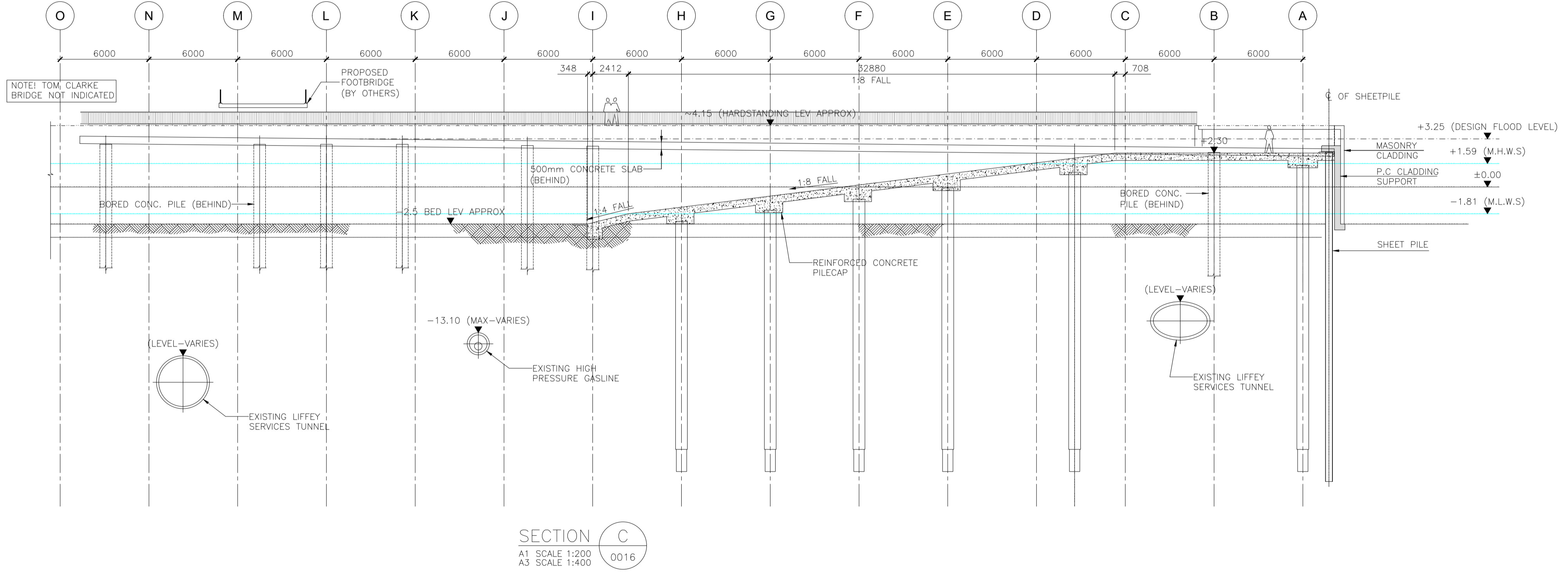
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SECTION A
A1 SCALE 1:200
A3 SCALE 1:400
0016



SECTION B
A1 SCALE 1:200
A3 SCALE 1:400
0016



SECTION C
A1 SCALE 1:200
A3 SCALE 1:400
0016

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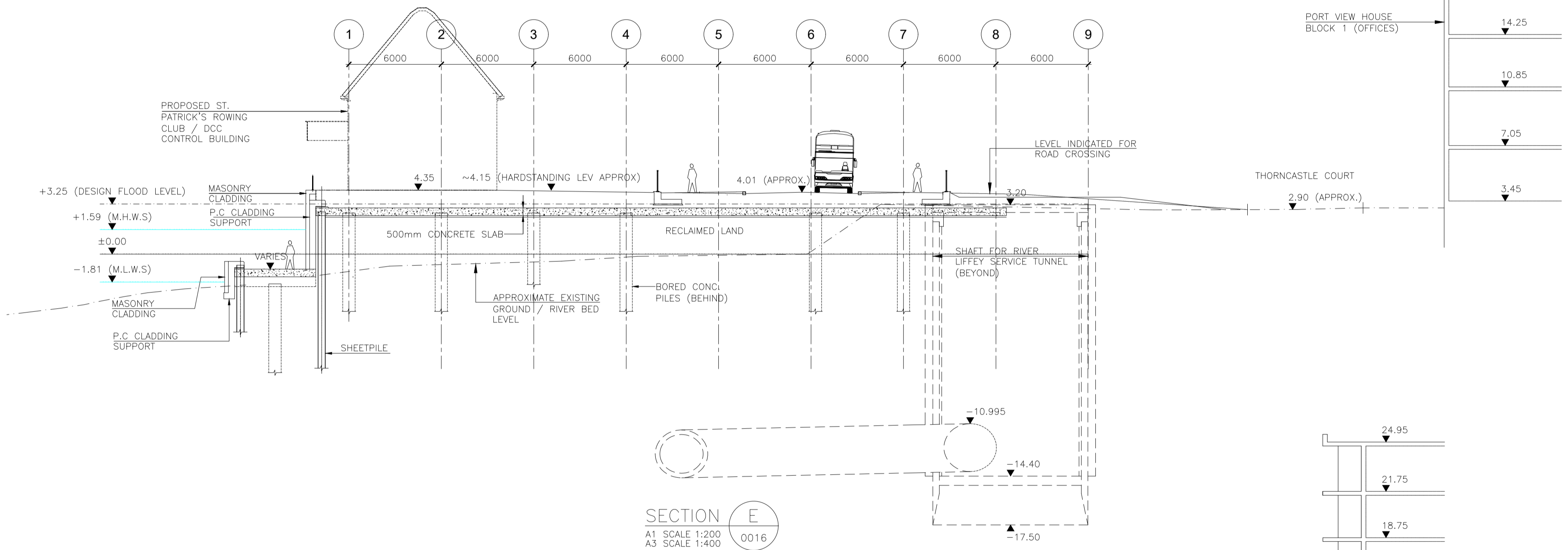
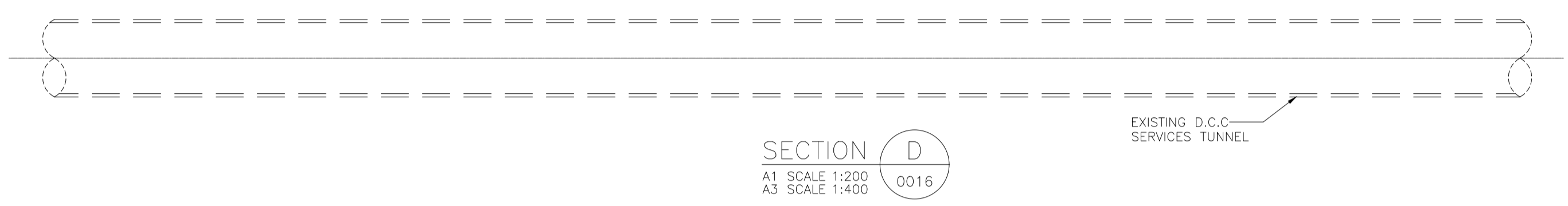
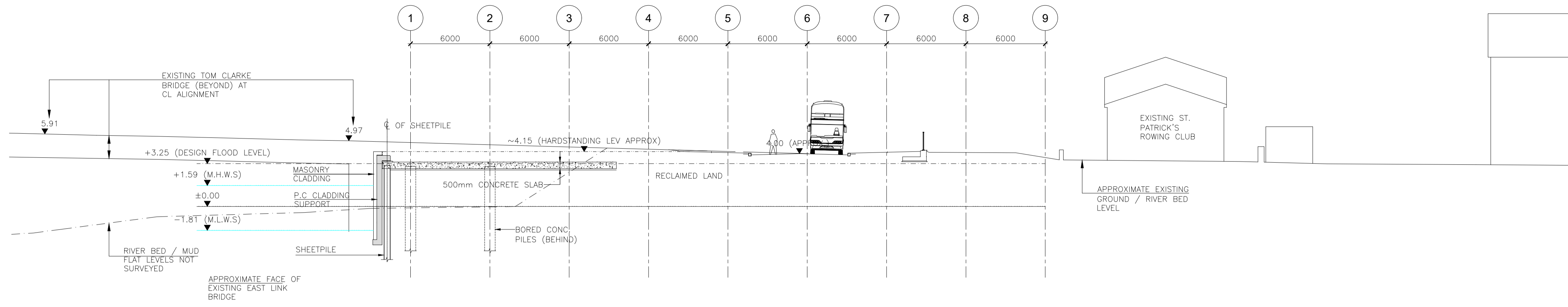


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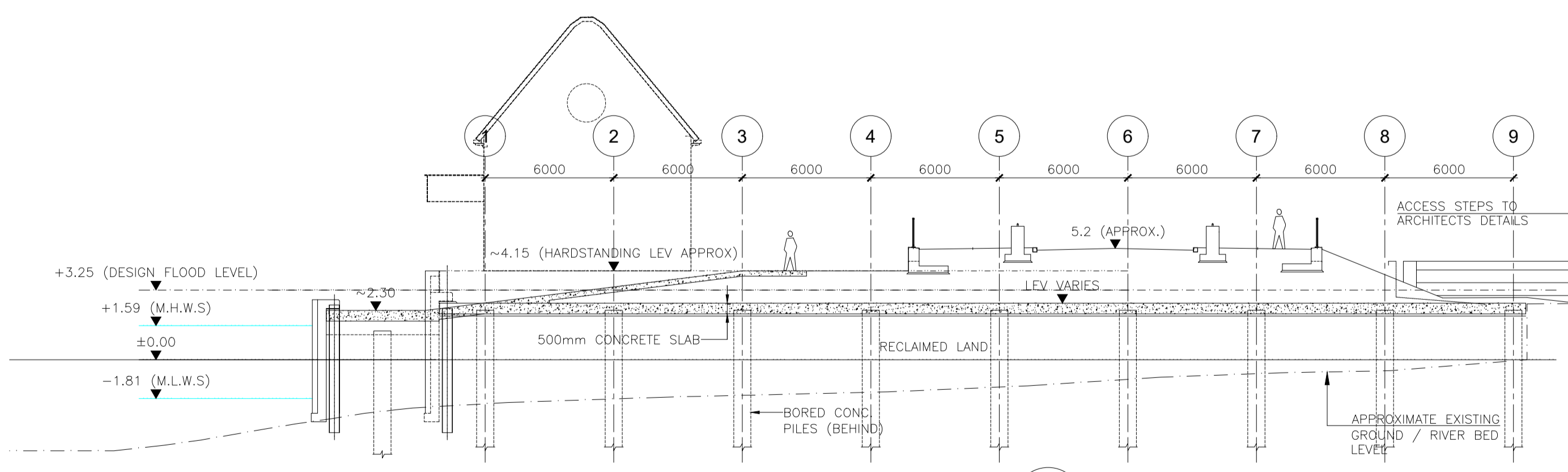
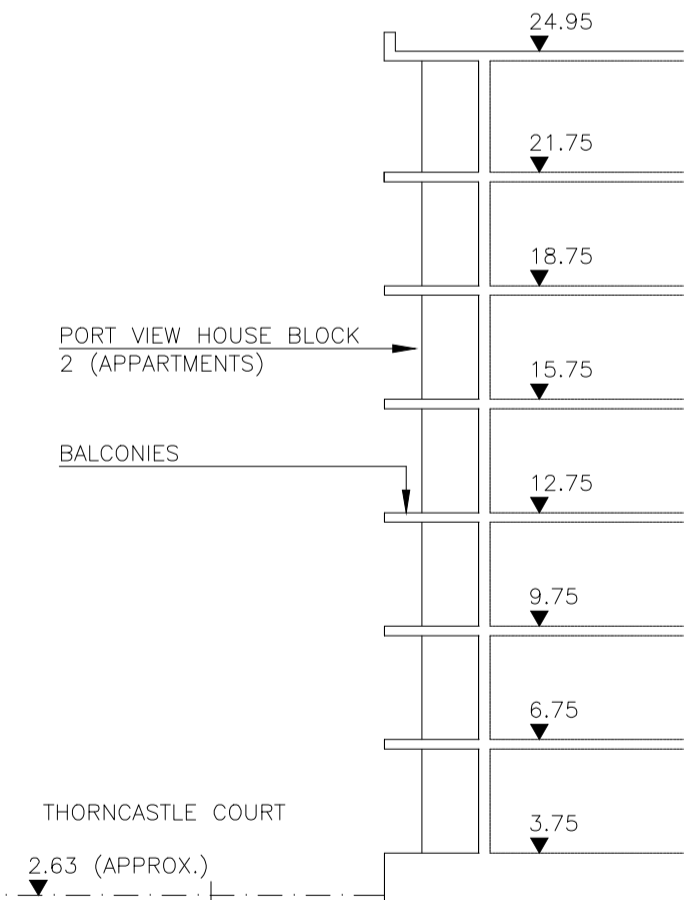
Client NTA Udarás Náisiúnta Iompair National Transport Authority		Engineering Designer FIROD TYPSA		
Date 30/06/2022	Scale 1:200 @ A1 1:400 @ A3	Drawn OB	Checked JK	Approved SMG
Programme Code BCIDD	Originator Code ROT	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES RINGSEND RECLAIMED LAND - SECTIONS - SHEET 2 OF 3				
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0017	Sheet Number 17 of 20	Status A	Rev M01	

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SECTION E
A1 SCALE 1:200
A3 SCALE 1:400
0016



SECTION F
A1 SCALE 1:200
A3 SCALE 1:400
0016

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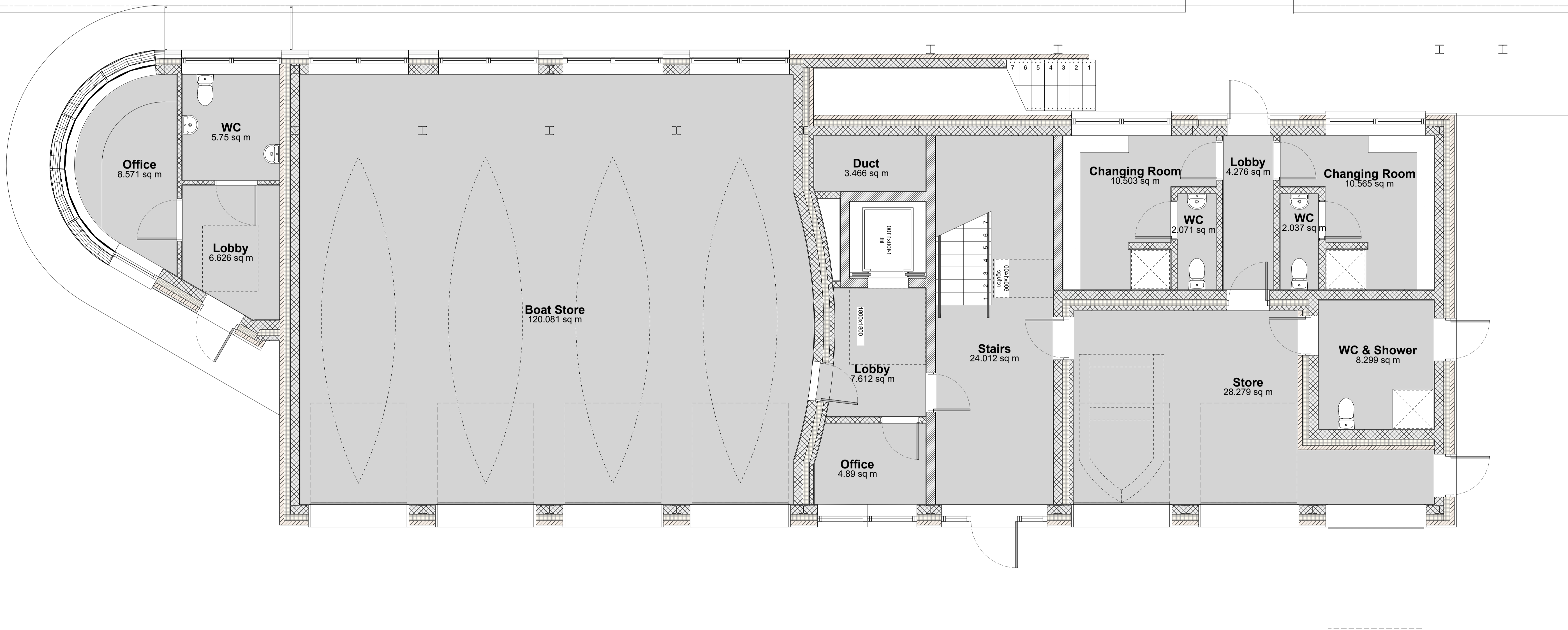
Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	OB	JK	SMG	ISSUED FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer CIROD TYPSA		
Date 30/06/2022	Scale 1:200 @ A1 1:400 @ A3	Drawn OB	Checked JK	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 STRUCTURES RINGSEND RECLAIMED LAND - SECTIONS - SHEET 3 OF 3				
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0018	Sheet Number 18 of 20	Status A	Rev M01	

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1 Ground Floor Plan
Scale: 1:50

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Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Client

Date: 30/06/2022
Scale: NTS @ A1, NTS @ A3
Programme Code: BCIDD
Originator Code: ROT

Engineering Designer

Drawn: CG
Checked: EOC
Approved: SMG
QMS Code

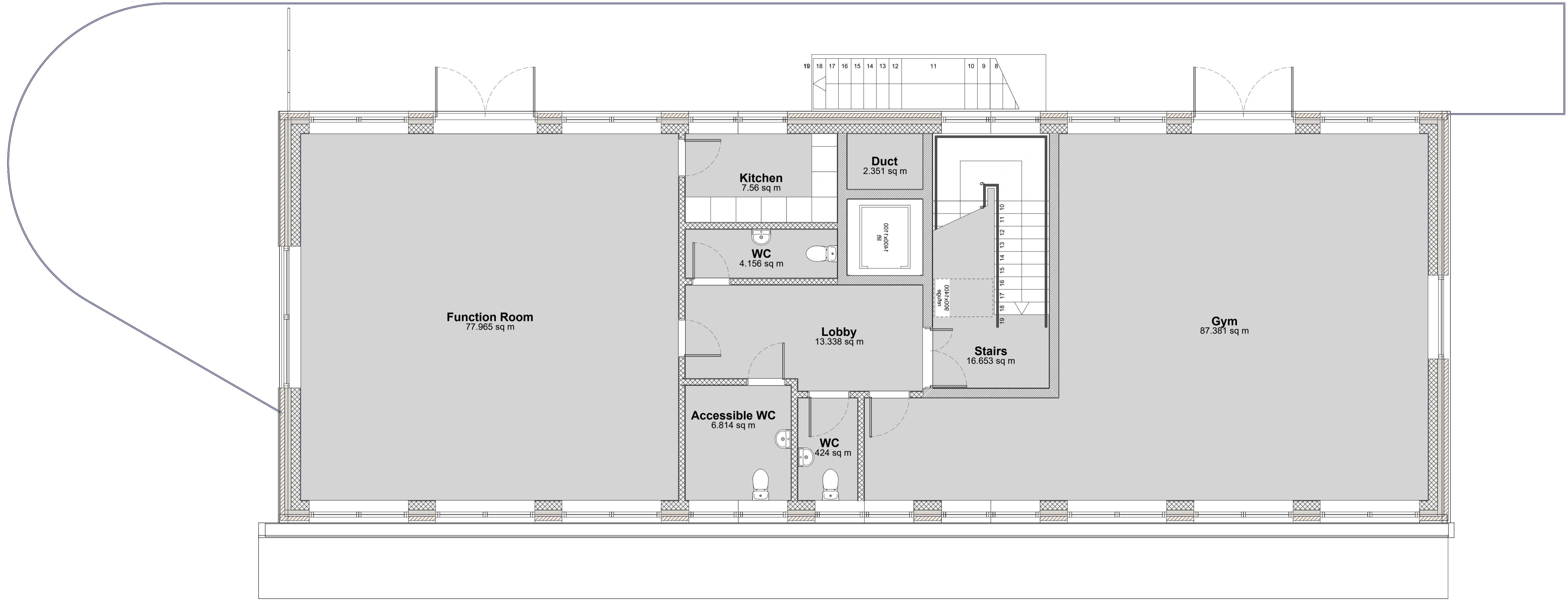
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Drawing Title: RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME ST PATRICK'S ROWING CLUB GROUND FLOOR PLAN

Drawing File Name: BCIDD-SHA-STR_ZZ-0016_XX_00-DR-SS-0001
Sheet Number: 01 of 03
Status: A
Rev: M01

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1 First Floor Plan
Scale: 1:50

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Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Client Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer TYPSA							
Date	30/06/2022	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 ST PATRICK'S ROWING CLUB FIRST FLOOR PLAN			
Drawing File Name	BCIDD-SHA-STR_ZZ-0016_XX_00-DR-SS-0002	Sheet Number	02 of 03
Status	A	Rev	M01

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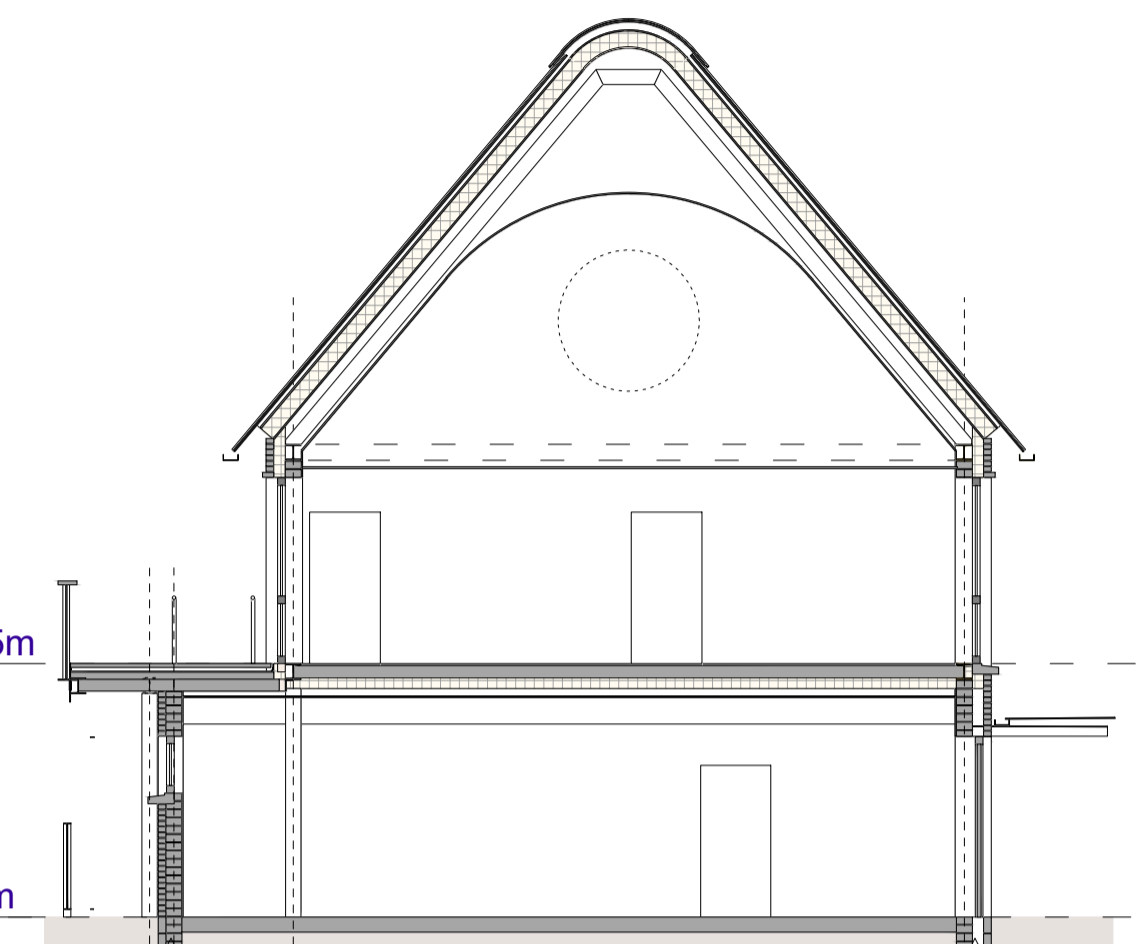
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1 Proposed Elevation
Scale: 1:200



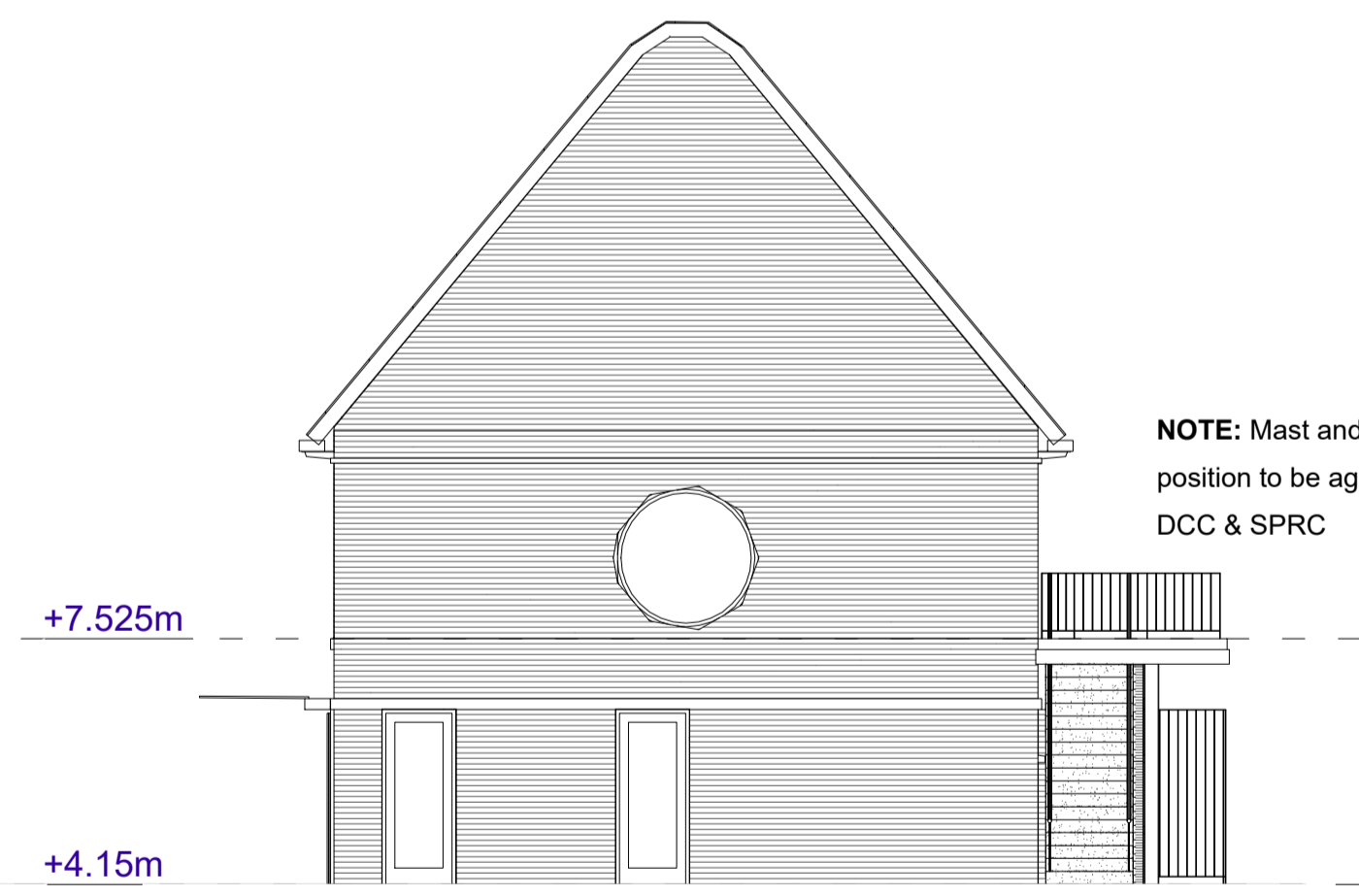
2 Proposed Elevation
Scale: 1:200



5 Section AA
Scale: 1:200

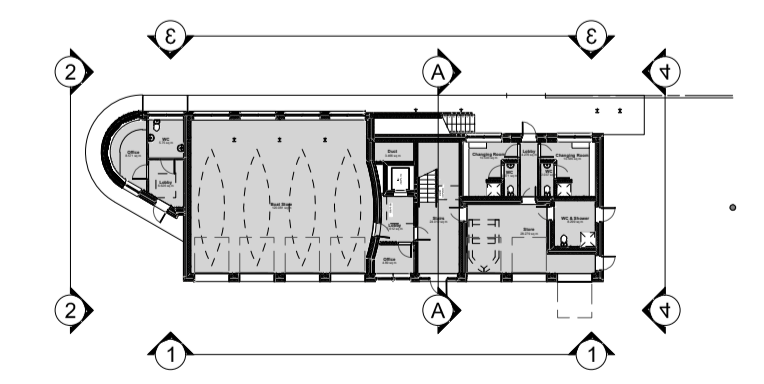


3 Proposed Elevation
Scale: 1:200



4 Proposed Elevation
Scale: 1:200

NOTE: Mast and Club fencing position to be agreed between DCC & SPRC



Key Plan
Scale: NTS

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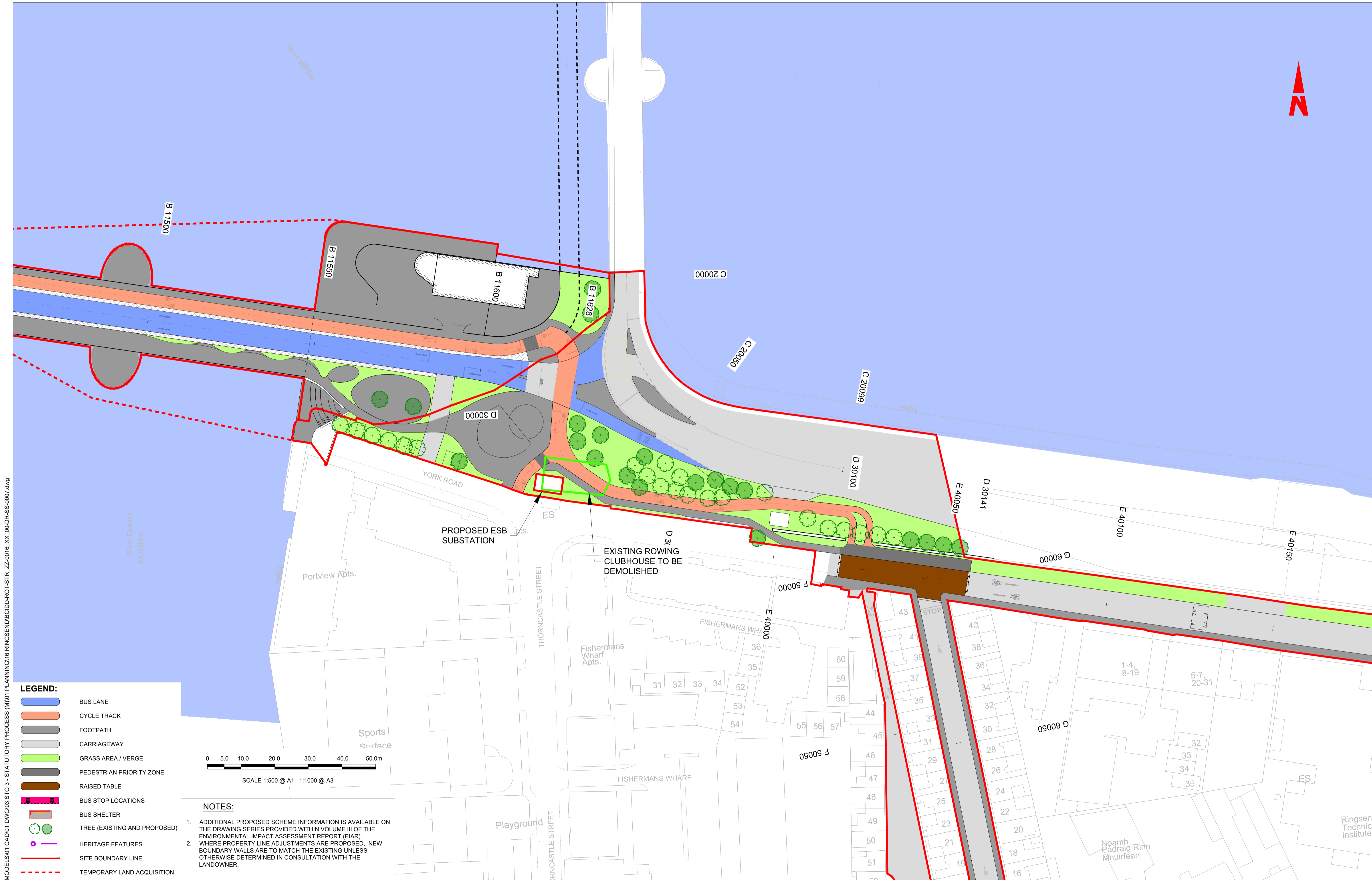


Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	CG	EOC	SMG	ISSUED FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer FIROD TYPSA			
Date 30/06/2022	Scale NTS @ A1 NTS @ A3	Drawn CG	Checked EOC	Approved SMG	
Programme Code BCIDD	Originator Code ROT	QMS Code			

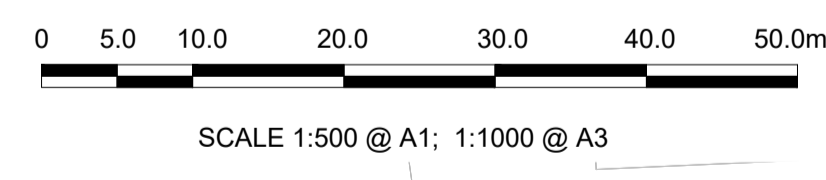
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME ST PATRICK'S ROWING CLUB PROPOSED ELEVATIONS / SECTIONS			
Drawing File Name BCIDD-SHA-STR_ZZ-0016_XX_00-DR-SS-0003	Sheet Number 03 of 03	Status A	Rev M01

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LEGEND:

- BUS LANE
- CYCLE TRACK
- FOOTPATH
- CARRIAGEWAY
- GRASS AREA / VERGE
- PEDESTRIAN PRIORITY ZONE
- RAISED TABLE
- BUS STOP LOCATIONS
- BUS SHELTER
- TREE (EXISTING AND PROPOSED)
- HERITAGE FEATURES
- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION



NOTES:

- ADDITIONAL PROPOSED SCHEME INFORMATION IS AVAILABLE ON THE DRAWING SERIES PROVIDED WITHIN VOLUME III OF THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT (EIAR).
- WHERE PROPERTY LINE ADJUSTMENTS ARE PROPOSED, NEW BOUNDARY WALLS ARE TO MATCH THE EXISTING UNLESS OTHERWISE DETERMINED IN CONSULTATION WITH THE LANDOWNER.

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Rev	Date	Drn	Chk'd	App'd	Description
M01	30/06/2022	AR	EOC	SMG	ISSUE FOR PHASE 4: PLANNING

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

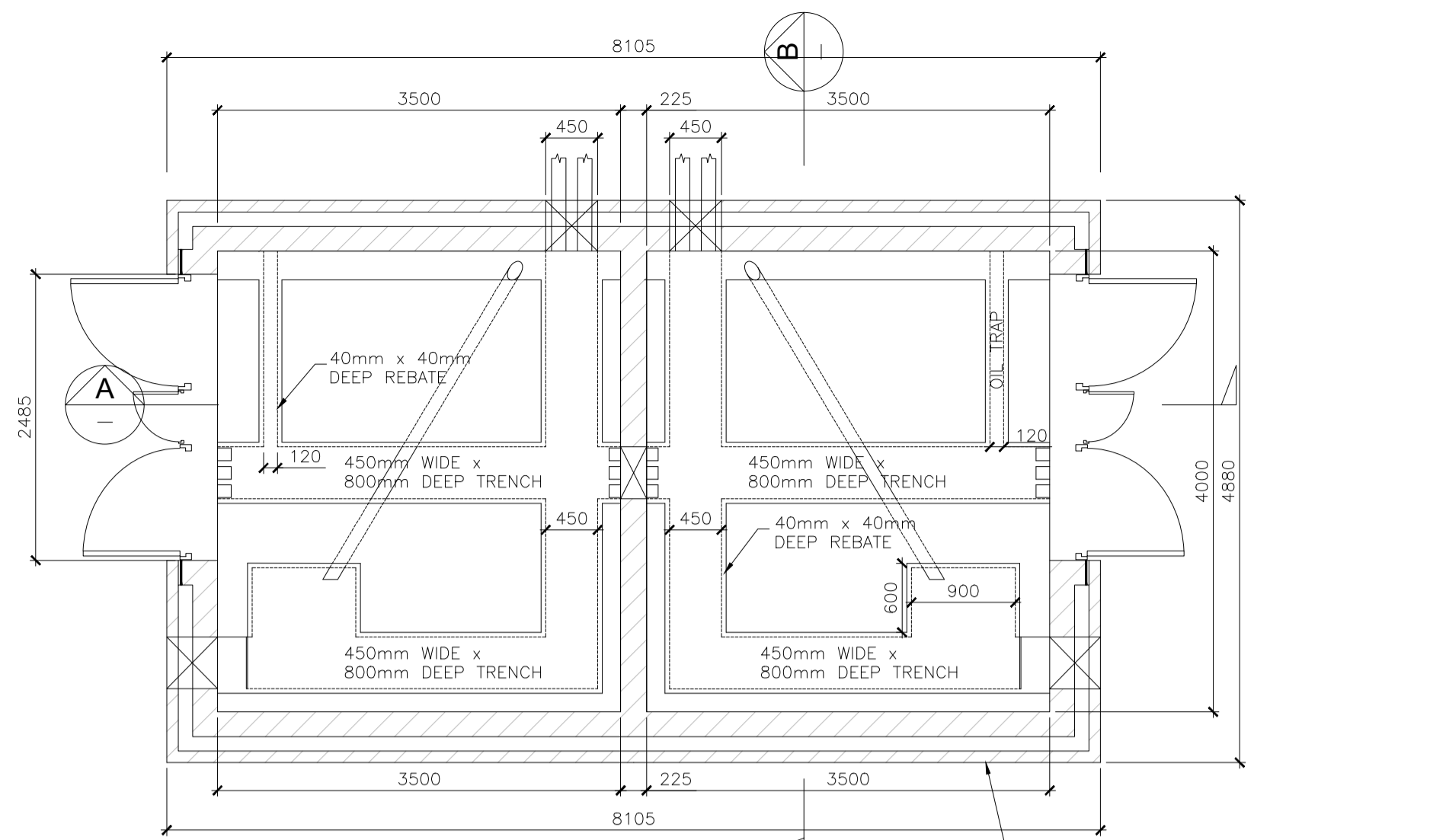
Engineering Designer: **FIROD**
 TYPISA

Date: 30/06/2022 Scale: 1:500 @ A1, 1:1000 @ A3
 Drawn: AR Checked: EOC Approved: SMG

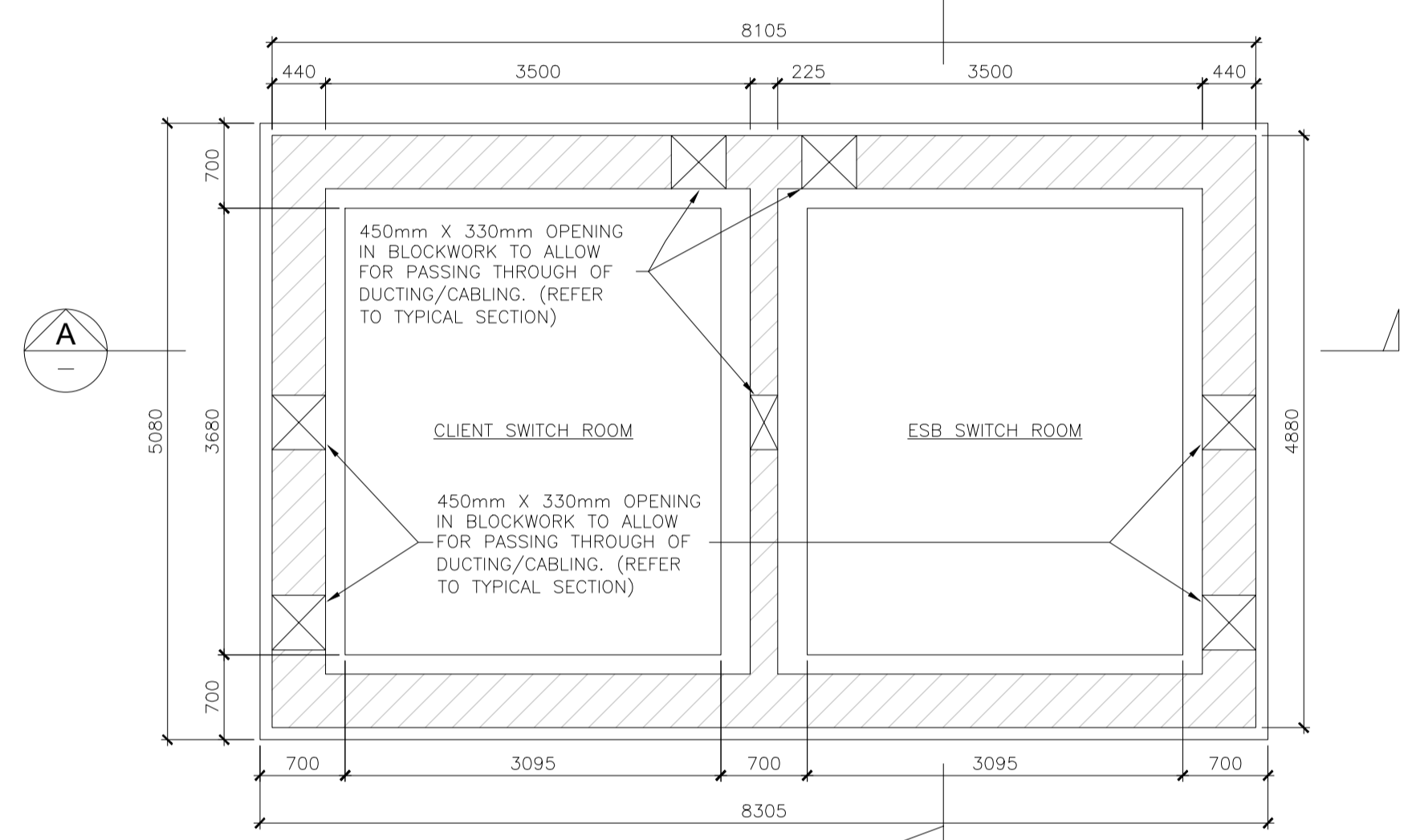
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Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: RINGSEND TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES PROPOSED SUB-STATION LOCATION			
Drawing File Name: BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0007	Sheet Number: 1 of 1	Status: A	Rev: M01

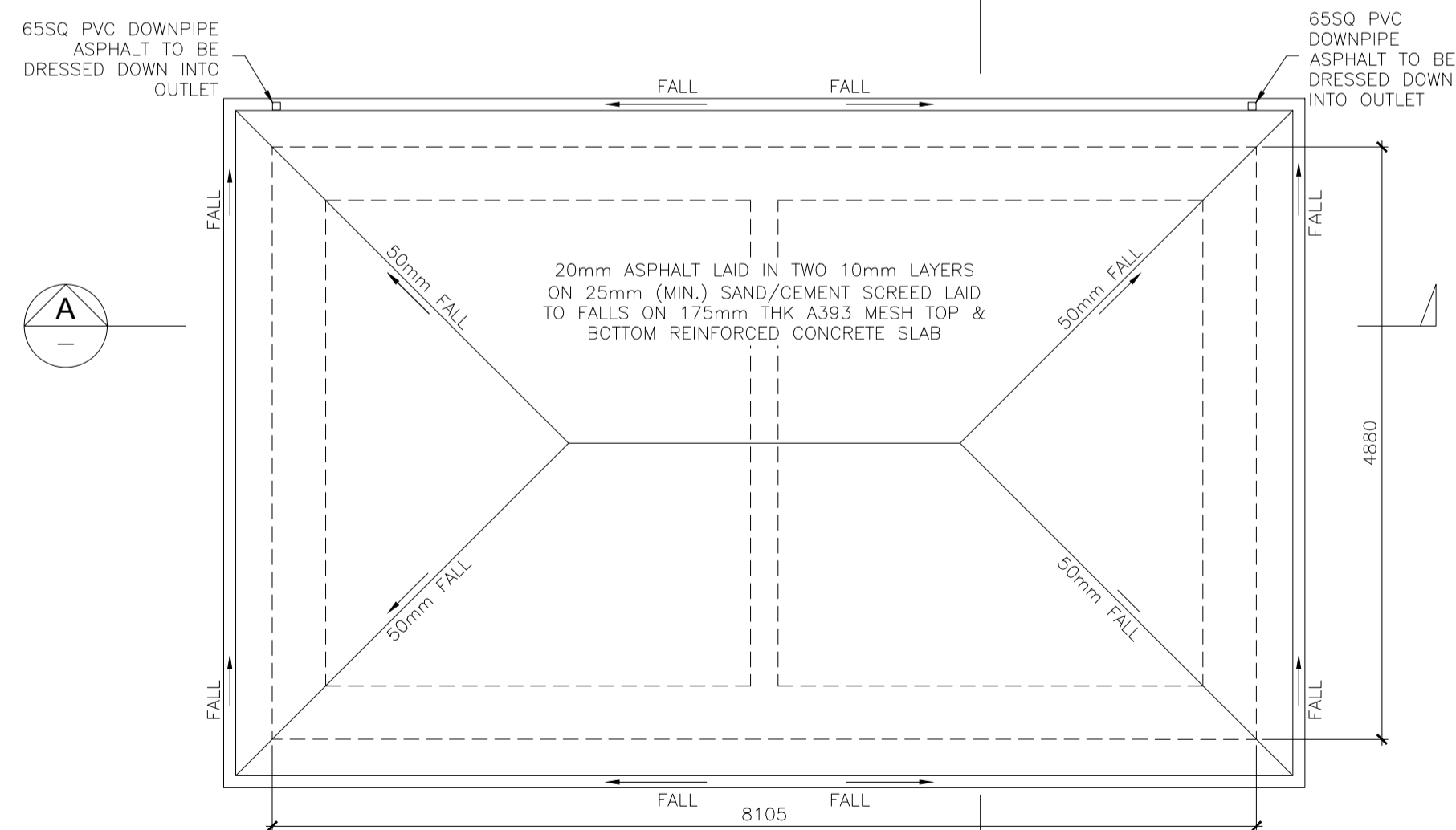
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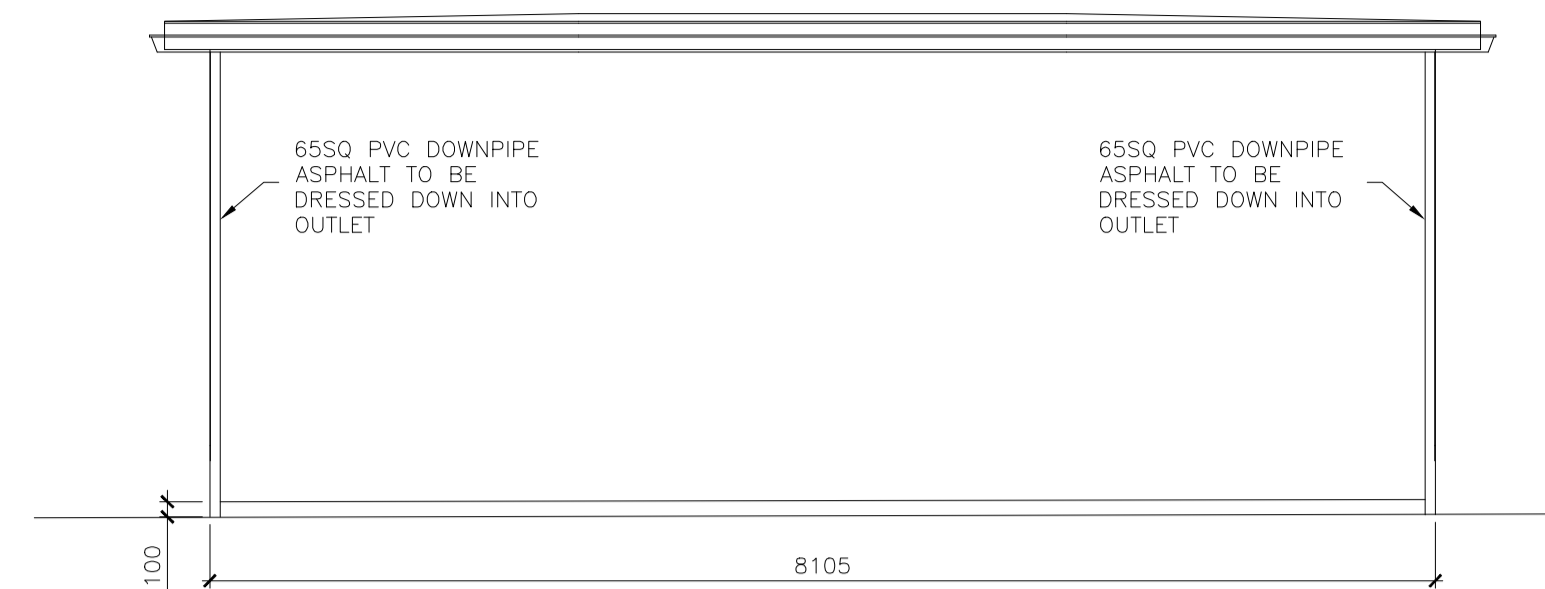
SUBSTATION FLOOR PLAN
SCALE 1: 50 A1
SCALE 1:100 A3



FOUNDATION PLAN
SCALE 1: 50 A1
SCALE 1:100 A3



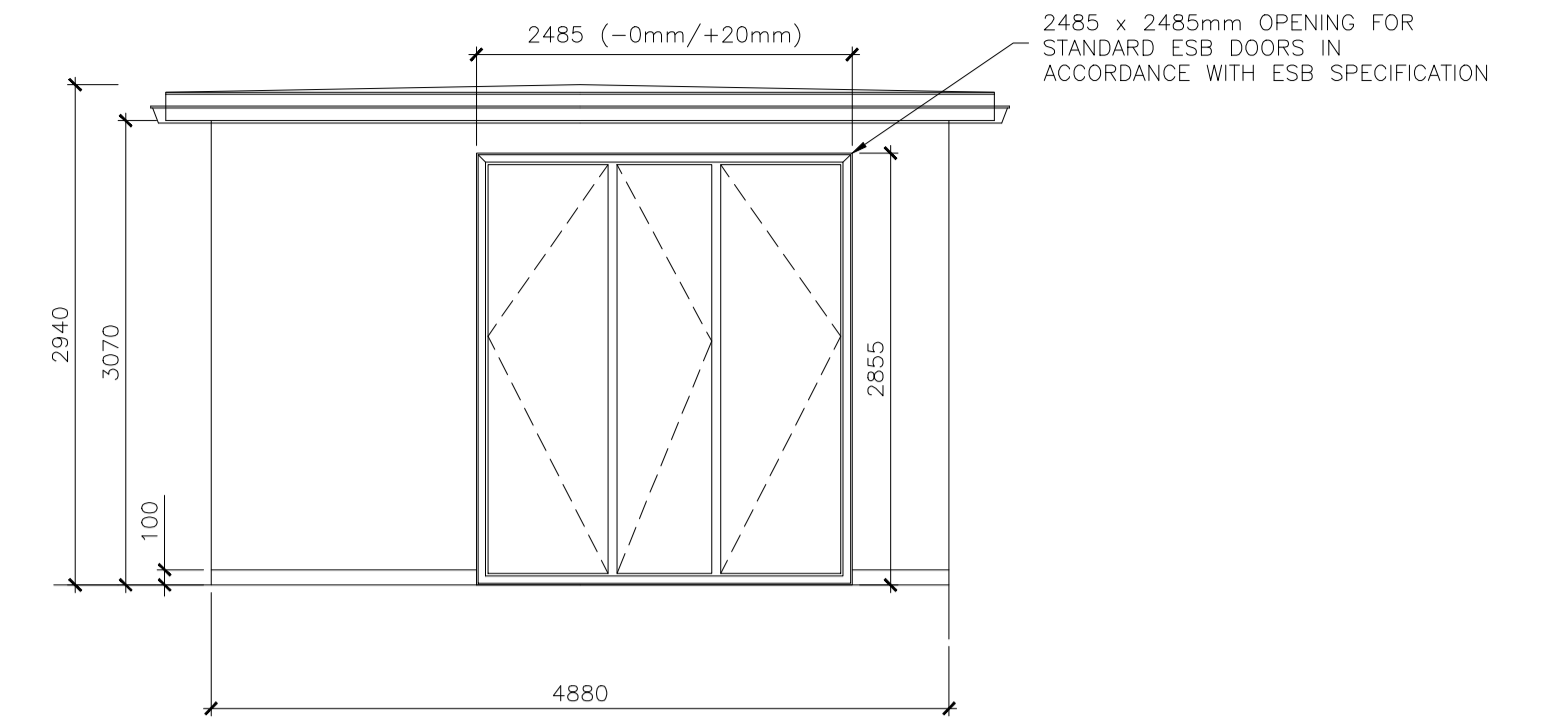
ROOF PLAN
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SCALE 1:100 A3



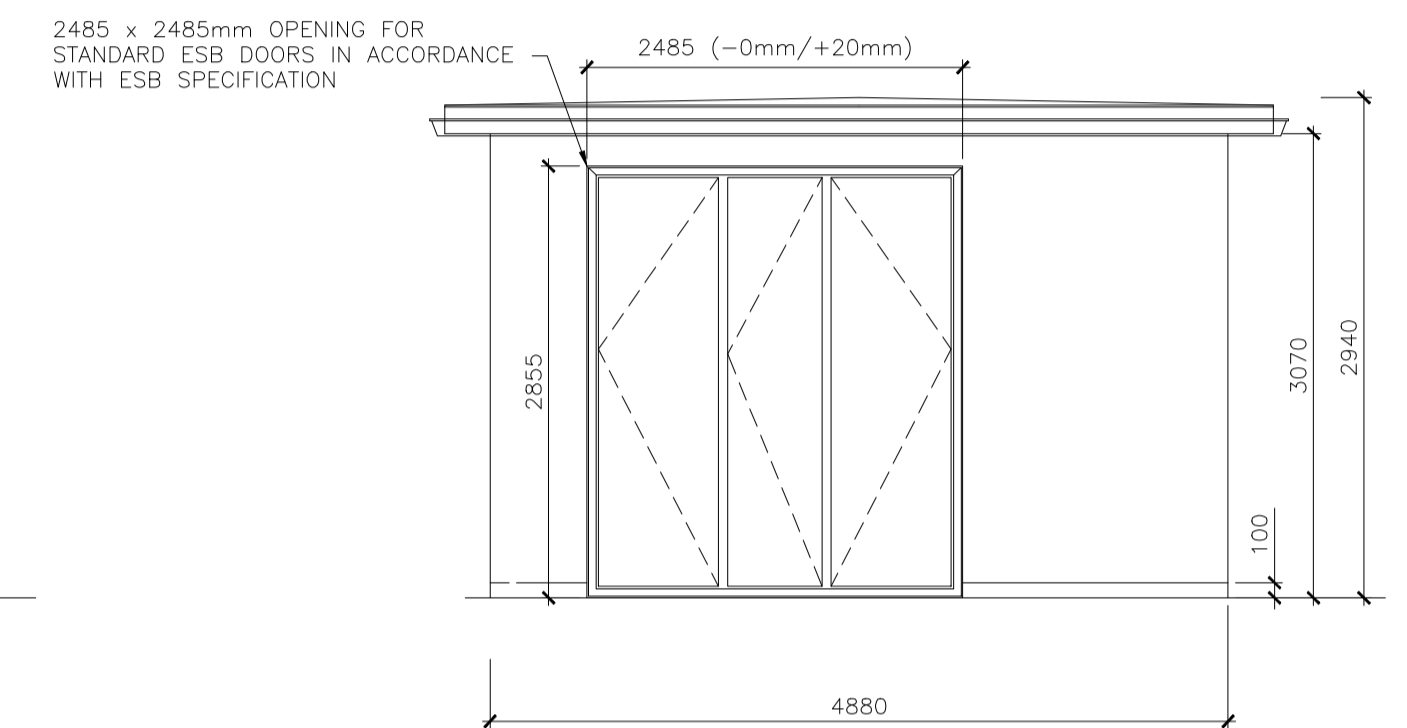
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SCALE 1:100 A3



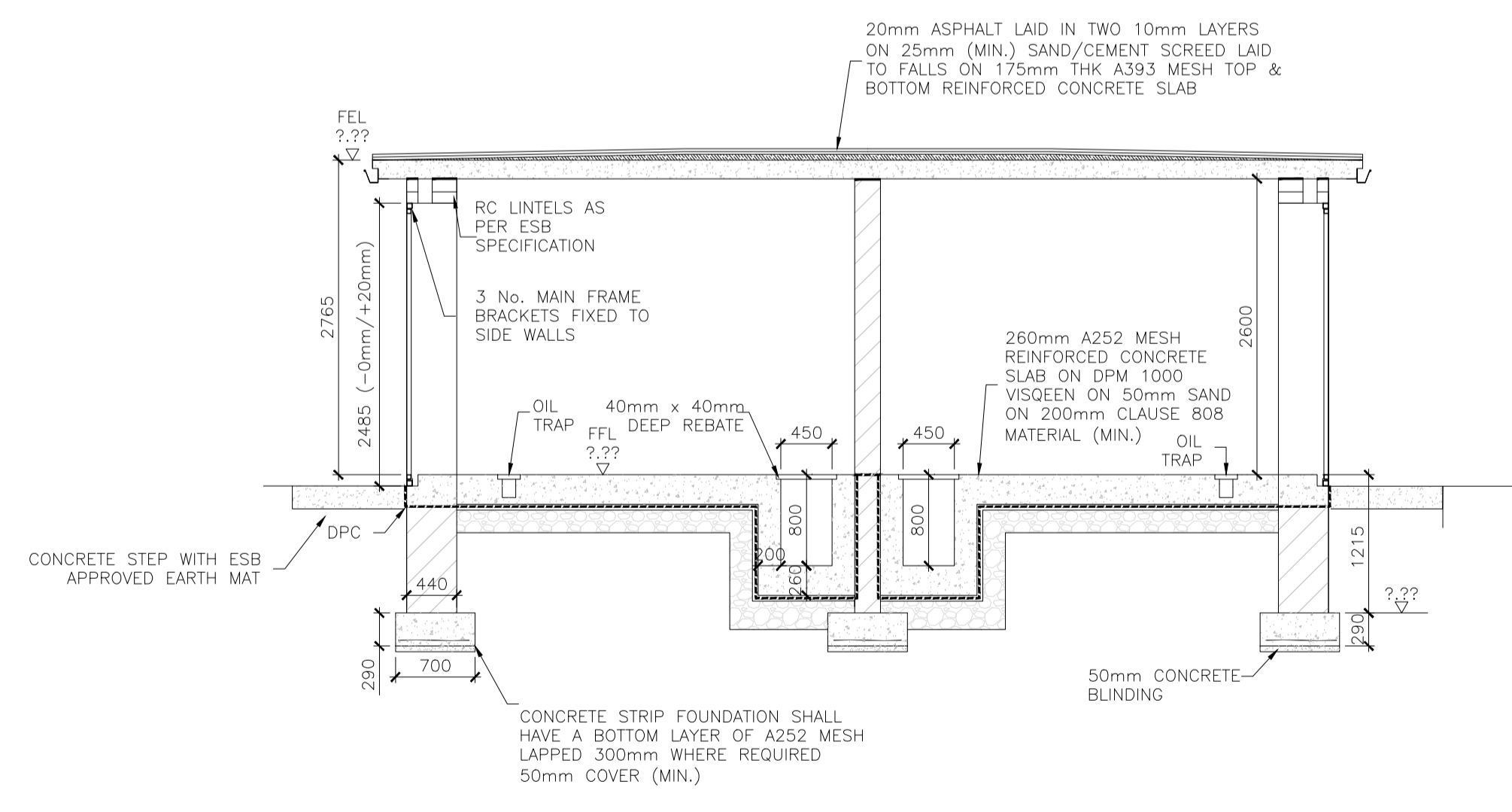
SOUTH ELEVATION
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SCALE 1:100 A3



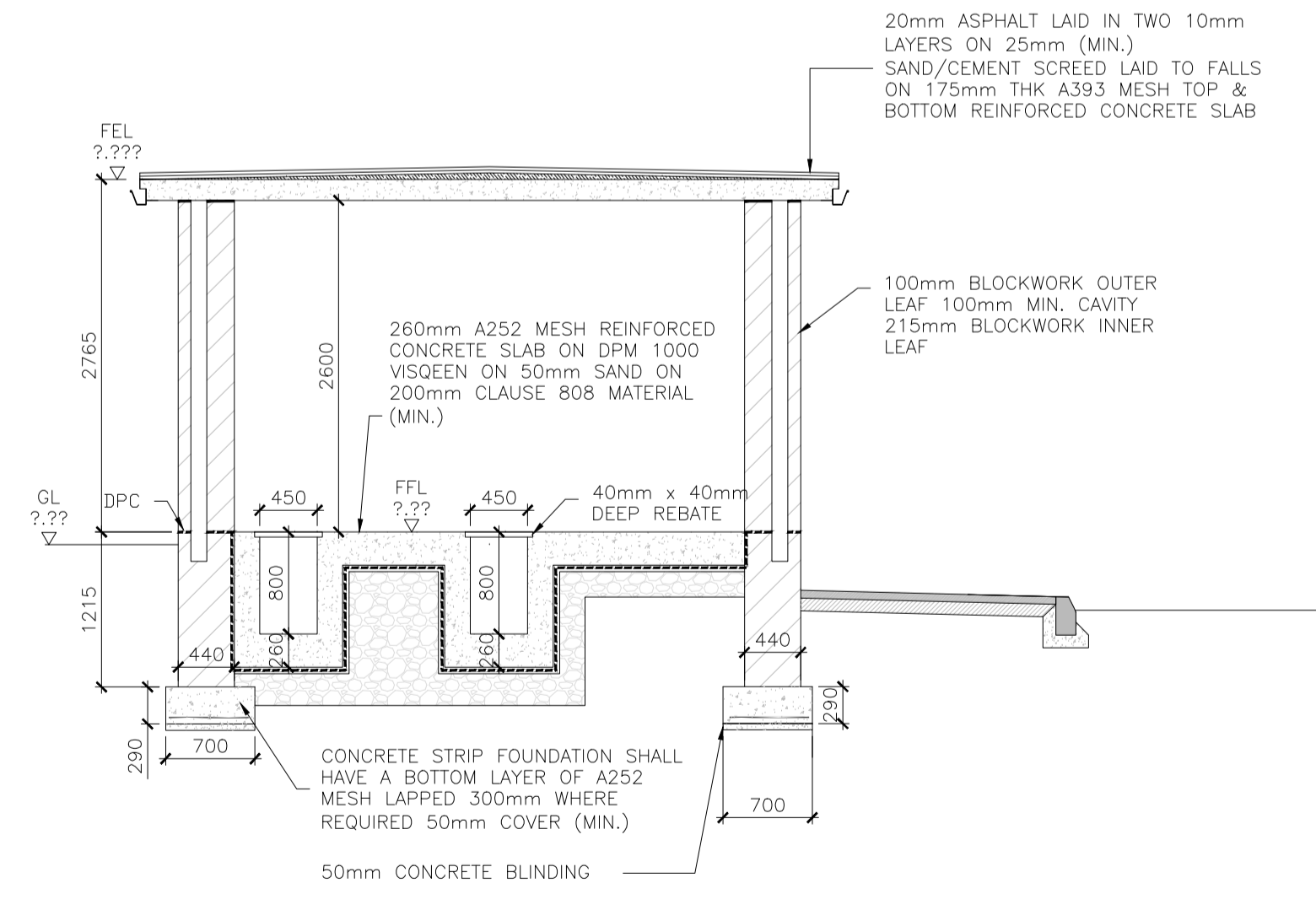
EAST ELEVATION
SCALE 1: 50 A1
SCALE 1:100 A3



WEST ELEVATION
SCALE 1: 50 A1
SCALE 1:100 A3



SECTION A
A1 SCALE 1:50
A3 SCALE 1:100



SECTION B
A1 SCALE 1:50
A3 SCALE 1:100

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M01	30/06/2022	AR	JK	SMG	ISSUED FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer FIROD TYPSA		
Date 30/06/2022	Scale 1:50 @ A1 1:100 @ A3	Drawn AR	Checked JK	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 STRUCTURES ESB SUBSTATION				
Drawing File Name BCIDD-ROT-STR_ZZ-0016_XX_00-DR-SS-0008	Sheet Number 08 of 20	Status A	Rev M01	

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