

CURRENT STATE. ELEVATION  
SCALE: 1:100

REV	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY
V01	April 2022	PLANNING ISSUE	EAC	ACJ	CCH

Client

Consultant

Project

Drawing Title

STRUCTURE DESIGN  
OBG14. BRIDGE DECK RECONSTRUCTION  
CURRENT STATE

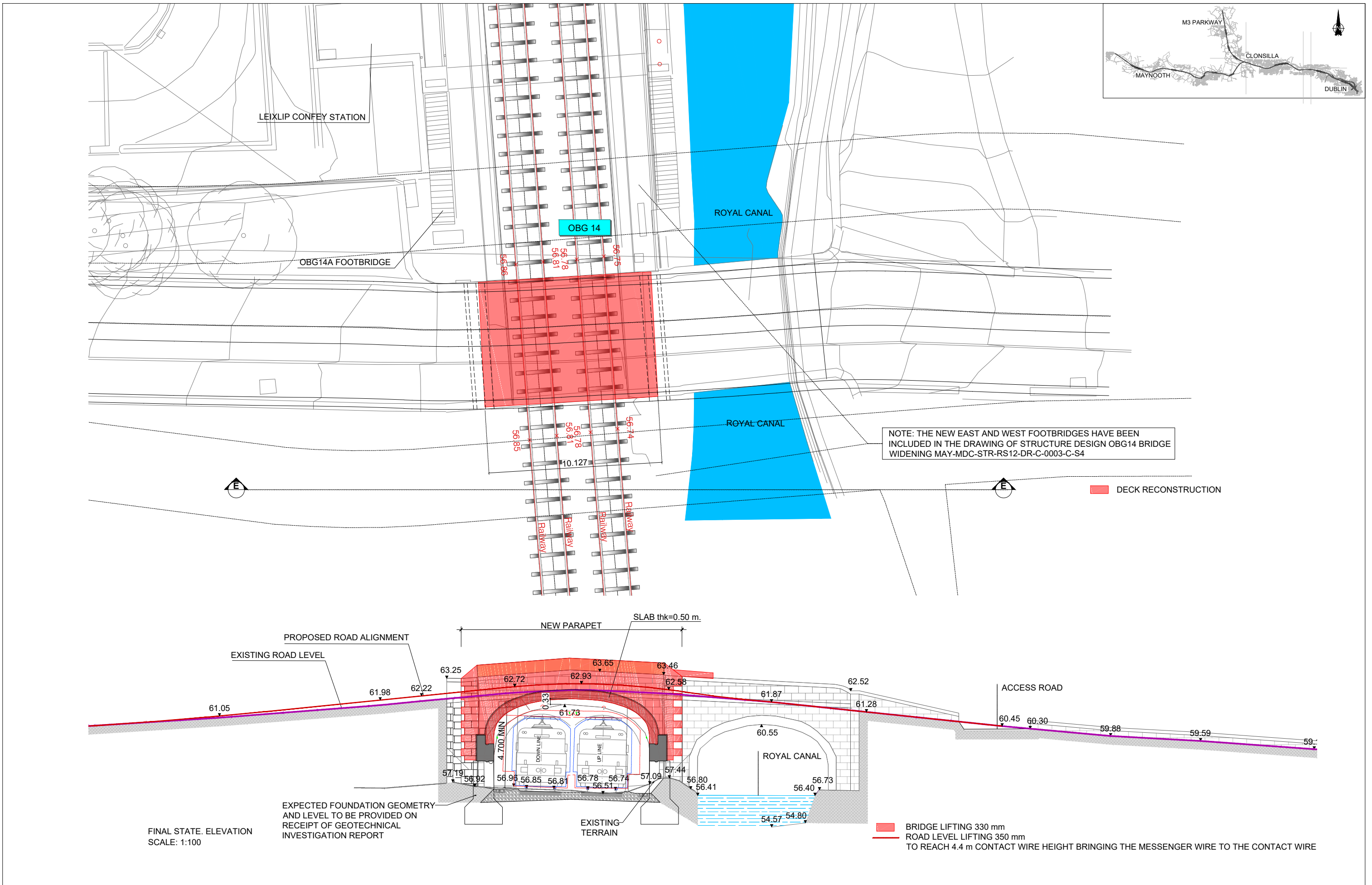
Scale:  
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase

MAY MDC STR RS12 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 1 of 4

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All elevations are in metres and relate to OS Geoid Model (OSGM02) Mean Head as defined by existing Project Control.  
All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLG).



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Client

Tionscail Éireann  
Project Ireland  
2040

NTA  
Údarás Náisiúnta Iompar  
National Transport Authority

lanróid Éireann  
Irish Rail

Consultant

IDOM

G3

PROD

ROUGHAN & O'DONOVAN

Project

DART+  
West

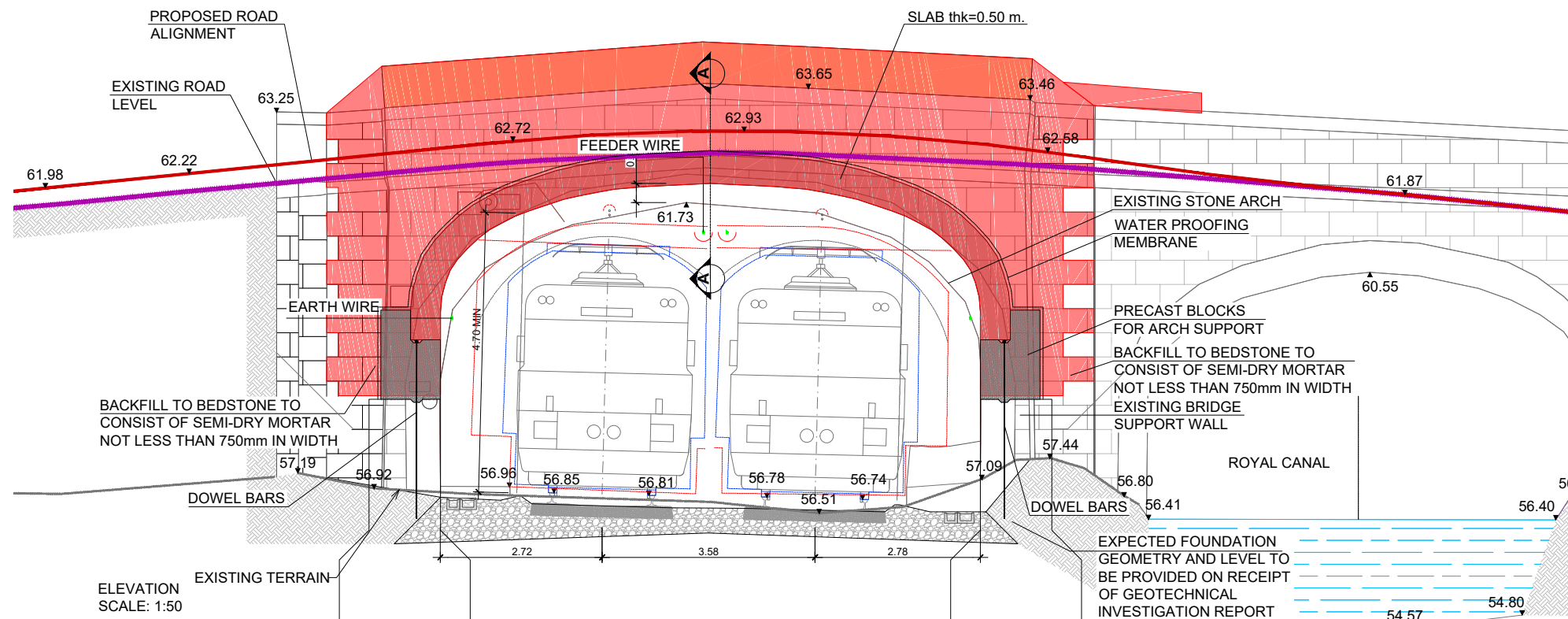
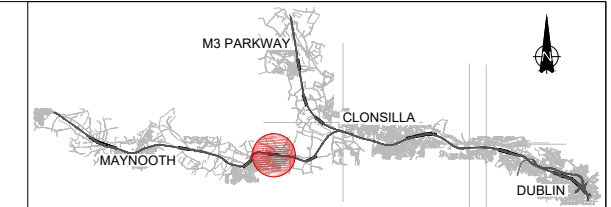
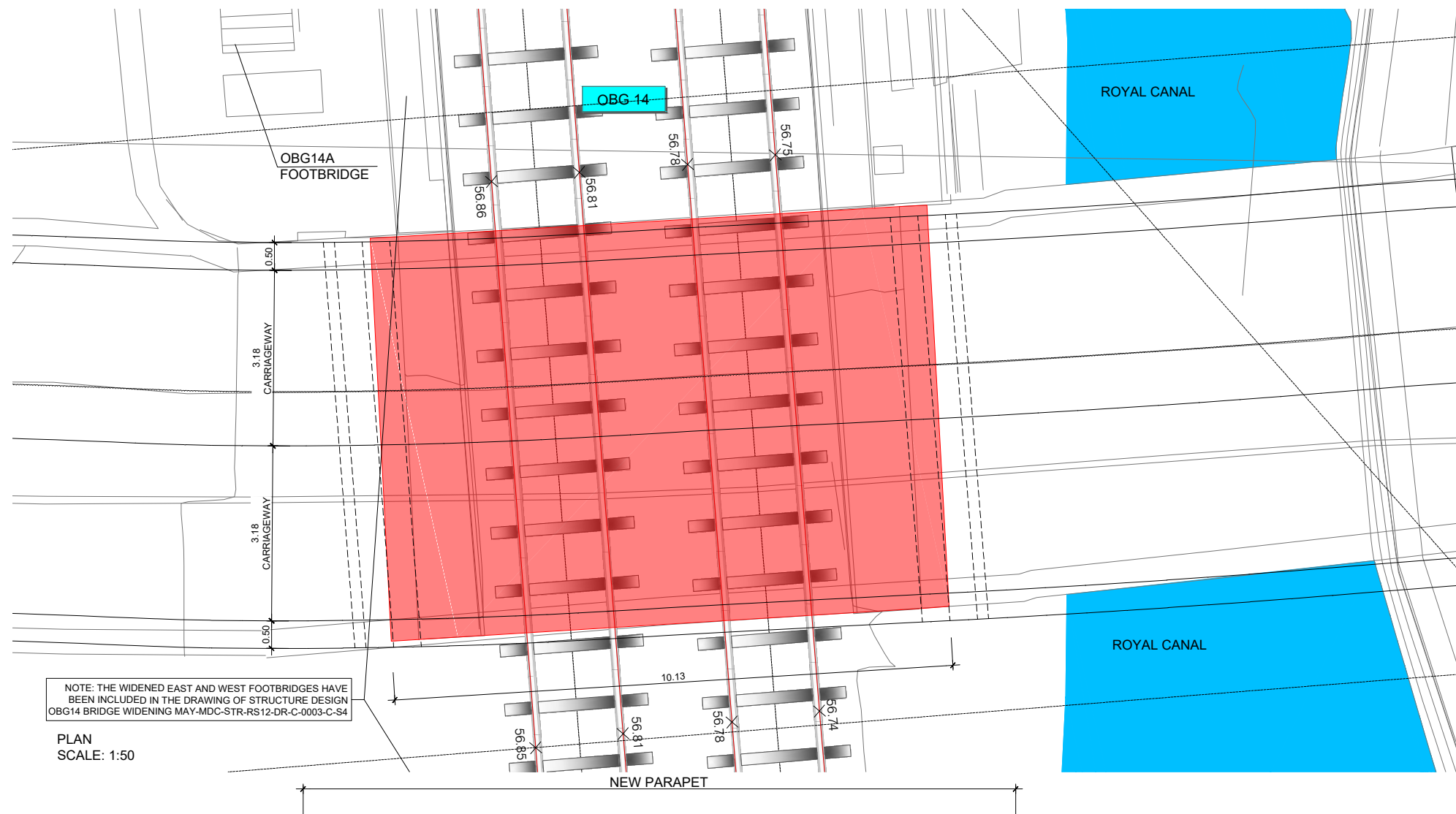
Drawing Title

STRUCTURE DESIGN  
OBG14. BRIDGE DECK RECONSTRUCTION  
FINAL STATE

Scale:  
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS12 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 2 of 4



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Client: Tionscald Éireann Project Ireland 2040, NTA Údarás Náisiúnta Iompartha National Transport Authority, Iarnród Éireann Irish Rail

Consultant: IDOM, G3, IROD

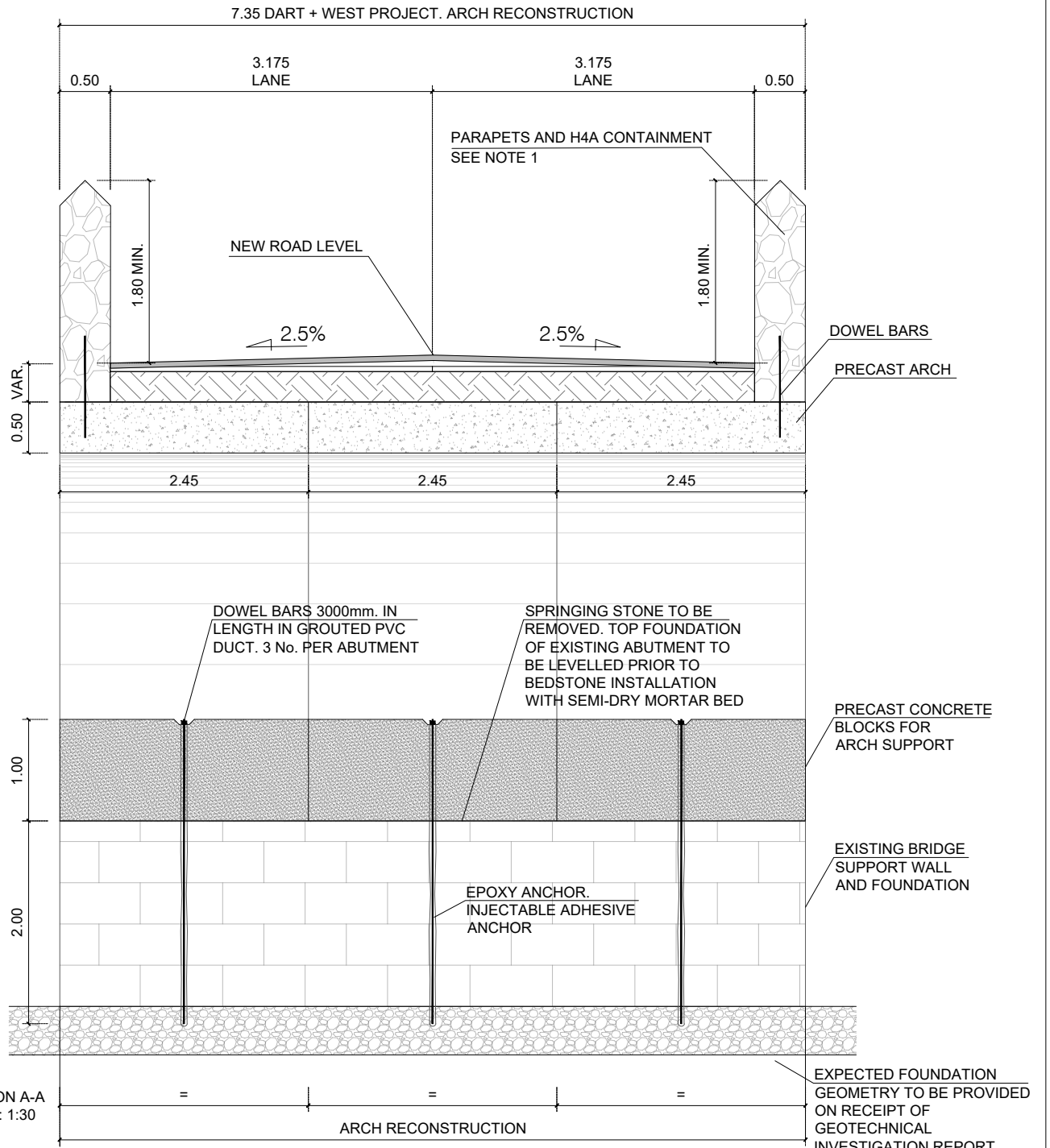
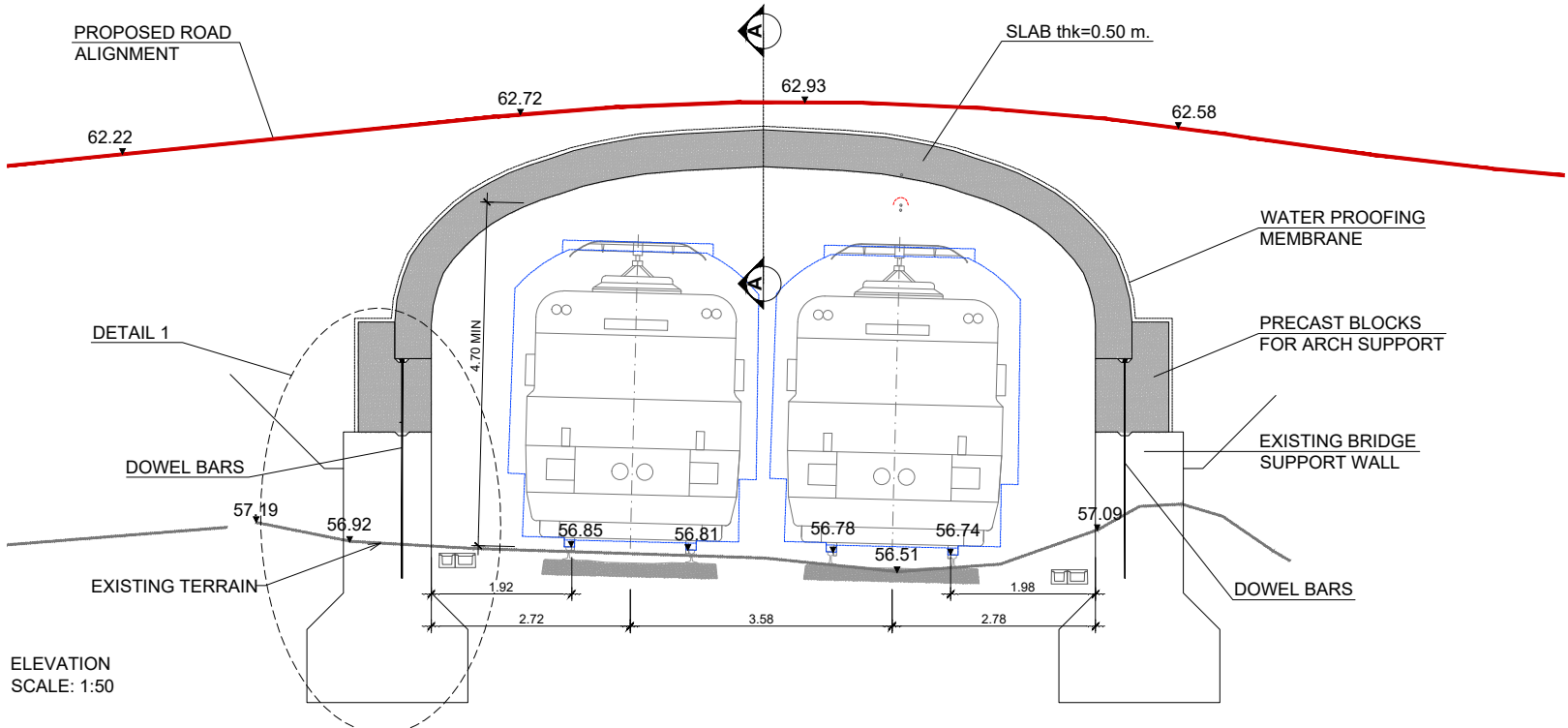
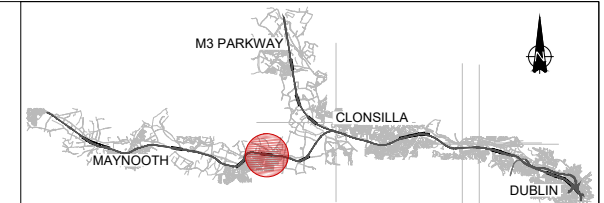
Project: DART+ West

Drawing Title: STRUCTURE DESIGN OBG14. BRIDGE DECK RECONSTRUCTION FINAL STATE DETAIL

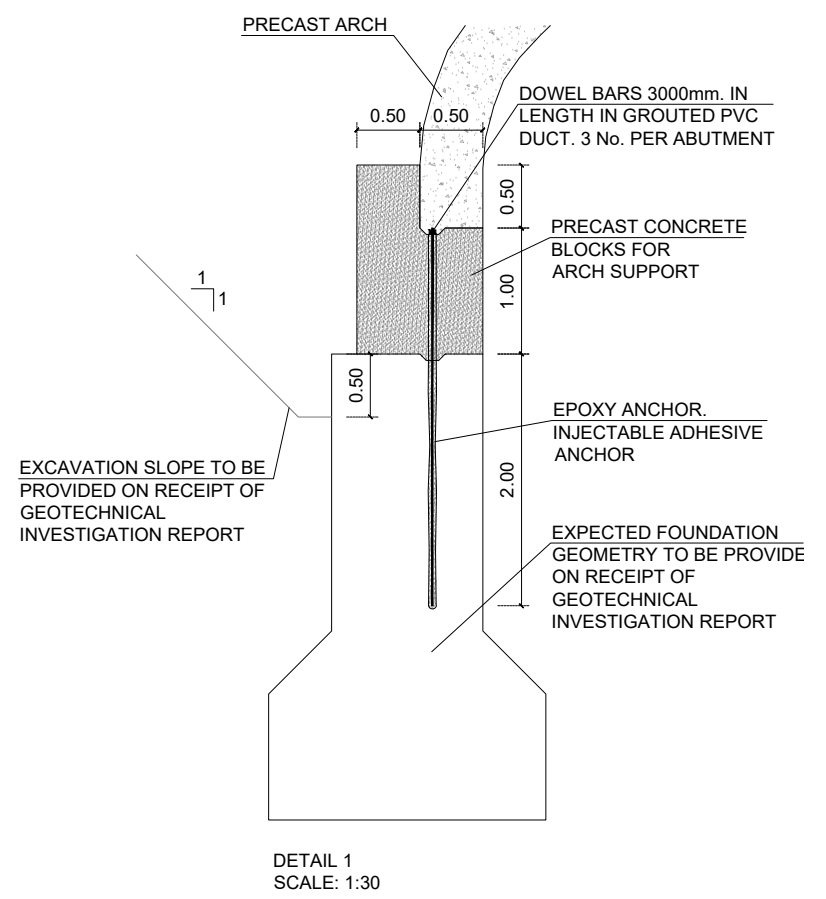
Scale: 1:1000 @ A1 1:2000 @ A3

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Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 3 of 4



NOTE 1: THE PARAPET WILL BE REBUILT TO ACHIEVE THE 1.8M OVER THE RAILWAY. A CONTEMPORARY SOLUTION TO BE AGREED WITH THE CONSERVATION ARCHITECT.



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Client

Tionscatal Éireann Project Ireland 2040

NTA Údarás Náisiúnta Ionstraithe National Transport Authority

Iarnród Éireann Irish Rail

Consultant

IDOM

G3

IROD

Project

DART+ West

Drawing Title

STRUCTURE DESIGN

OBG14. BRIDGE DECK RECONSTRUCTION

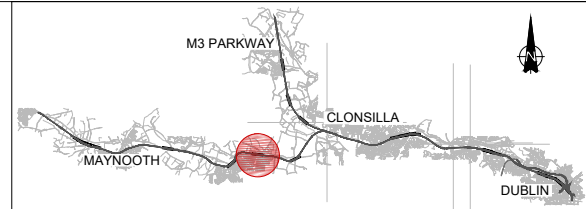
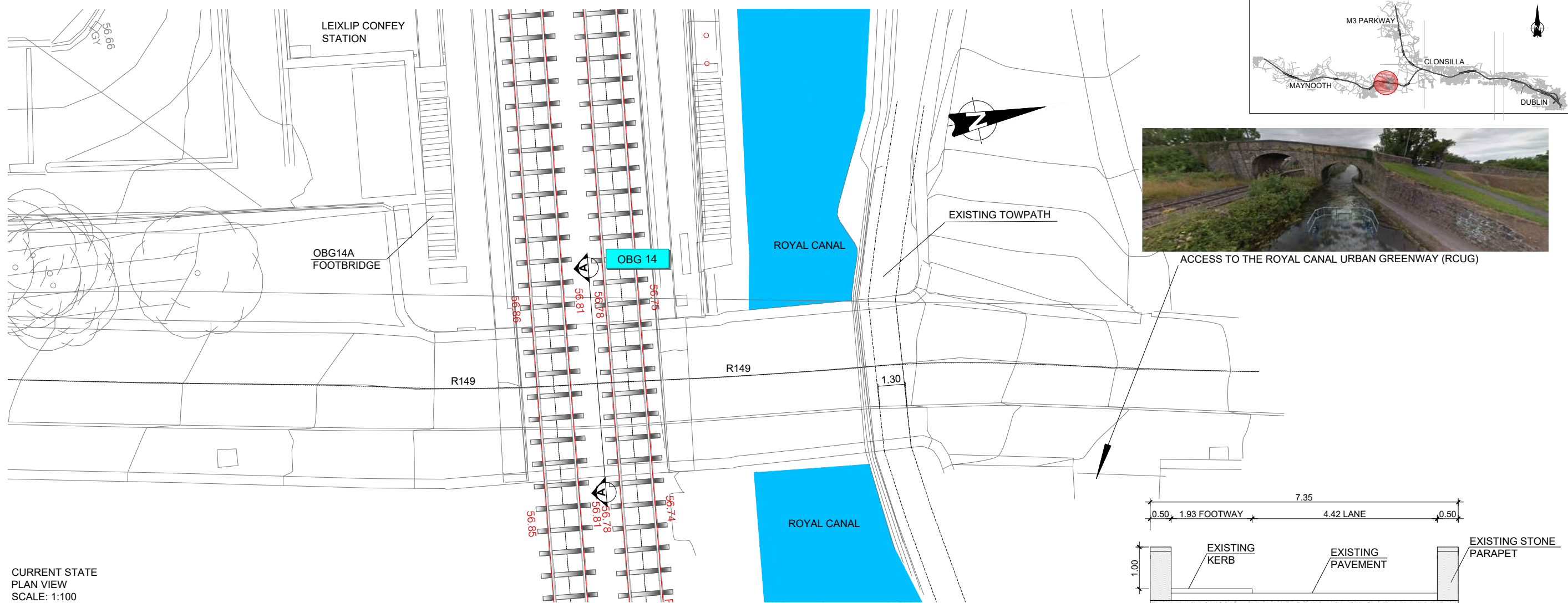
STRUCTURAL DESIGN DETAIL

Scale: 1:1000 @ A1 1:2000 @ A3

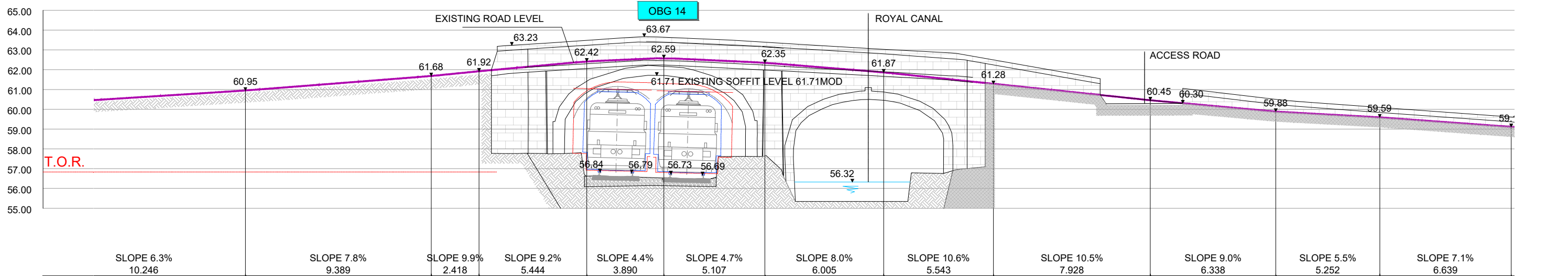
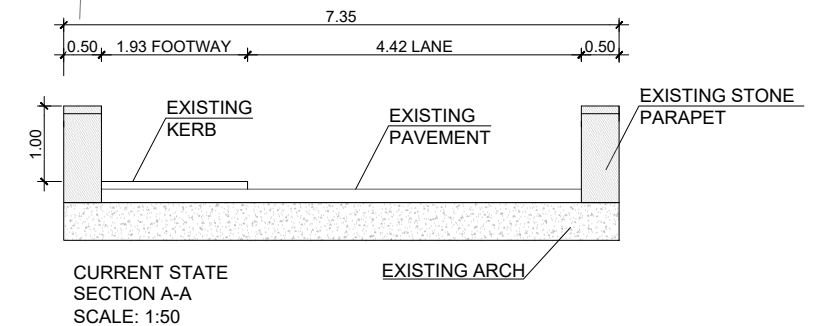
Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase

MAY MDC STR RS12 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 4 of 4



ACCESS TO THE ROYAL CANAL URBAN GREENWAY (RCUG)



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Client

Consultant

Project

Drawing Title

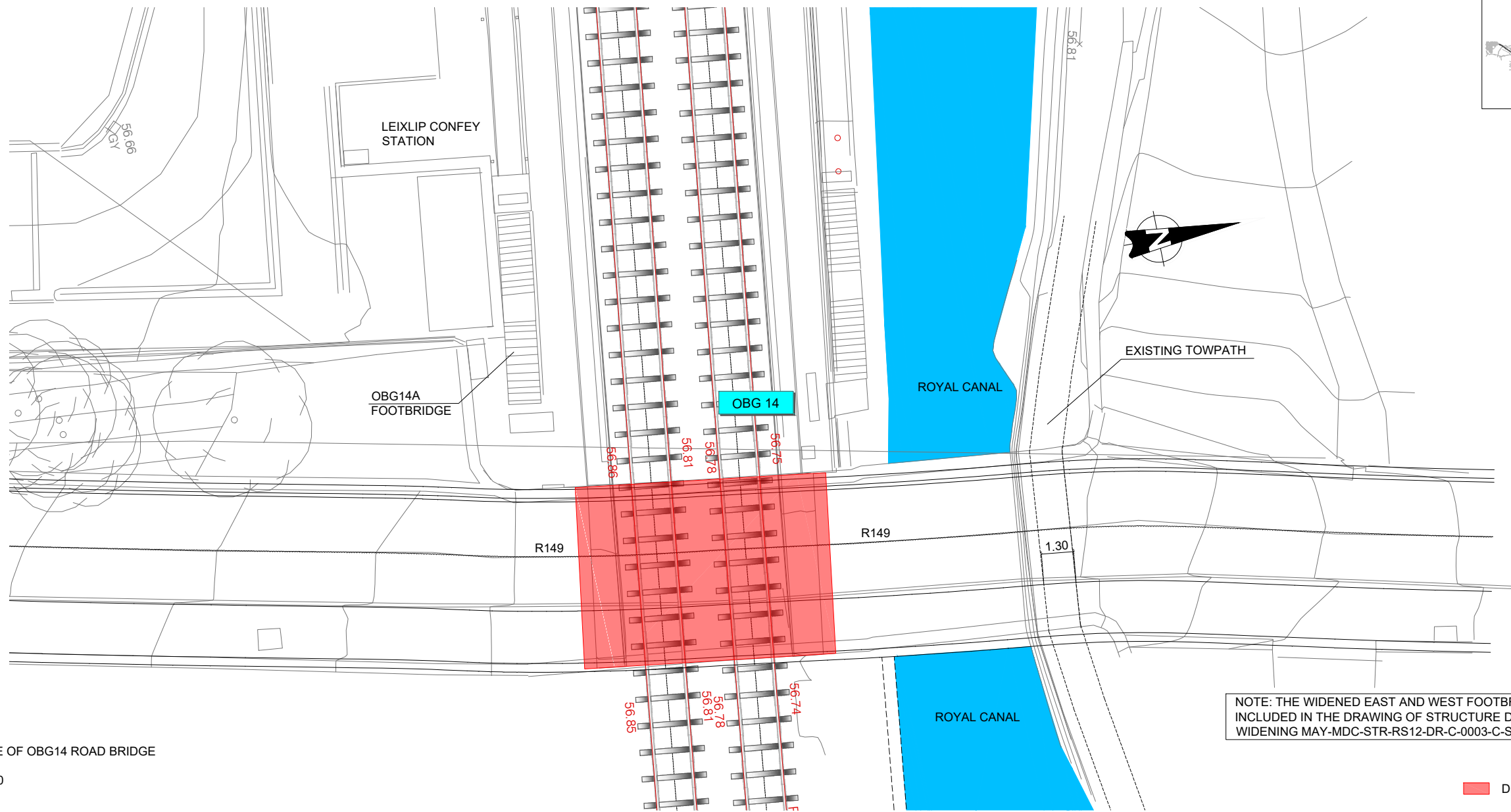
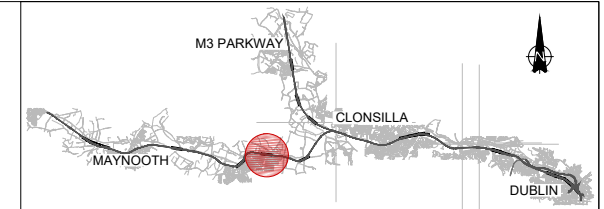
**STRUCTURE DESIGN  
OBG14 BRIDGE WIDENING  
CURRENT STATE**

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 1 of 9

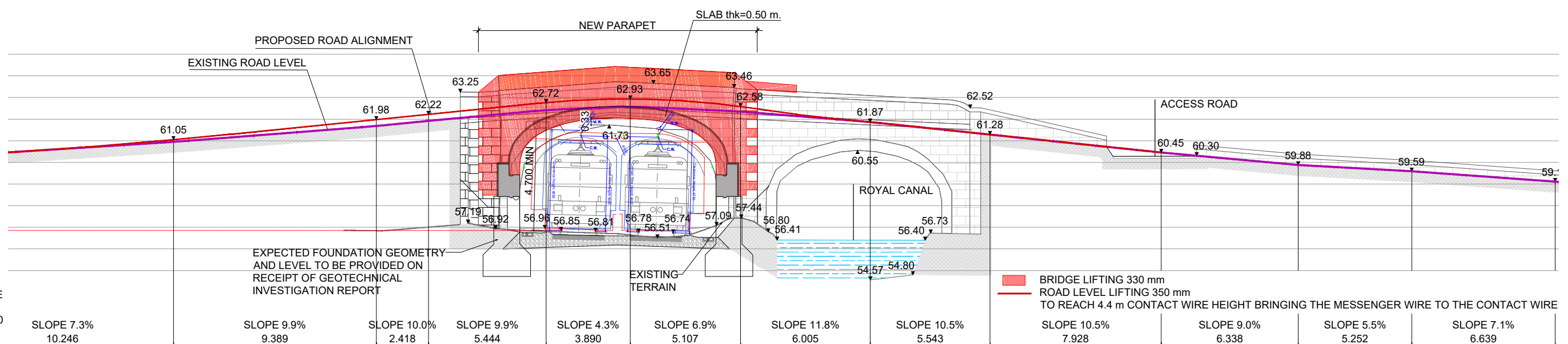
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FINAL STATE OF OBG14 ROAD BRIDGE  
PLAN VIEW  
SCALE: 1:100

NOTE: THE WIDENED EAST AND WEST FOOTBRIDGES HAVE BEEN INCLUDED IN THE DRAWING OF STRUCTURE DESIGN OBG14 BRIDGE WIDENING MAY-MDC-STR-RS12-DR-C-0003-C-S4, SHEET 3 OF 9 TO 9 OF 9

DECK RECONSTRUCTION



FINAL STATE ELEVATION  
SCALE: 1:100

BRIDGE LIFTING 330 mm  
ROAD LEVEL LIFTING 350 mm  
TO REACH 4.4 m CONTACT WIRE HEIGHT BRINGING THE MESSENGER WIRE TO THE CONTACT WIRE

REV	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY
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Client: Tionscail Éireann Project Ireland 2040, NTA, Iarnród Éireann Irish Rail

Consultant: IDOM, G3, JROD

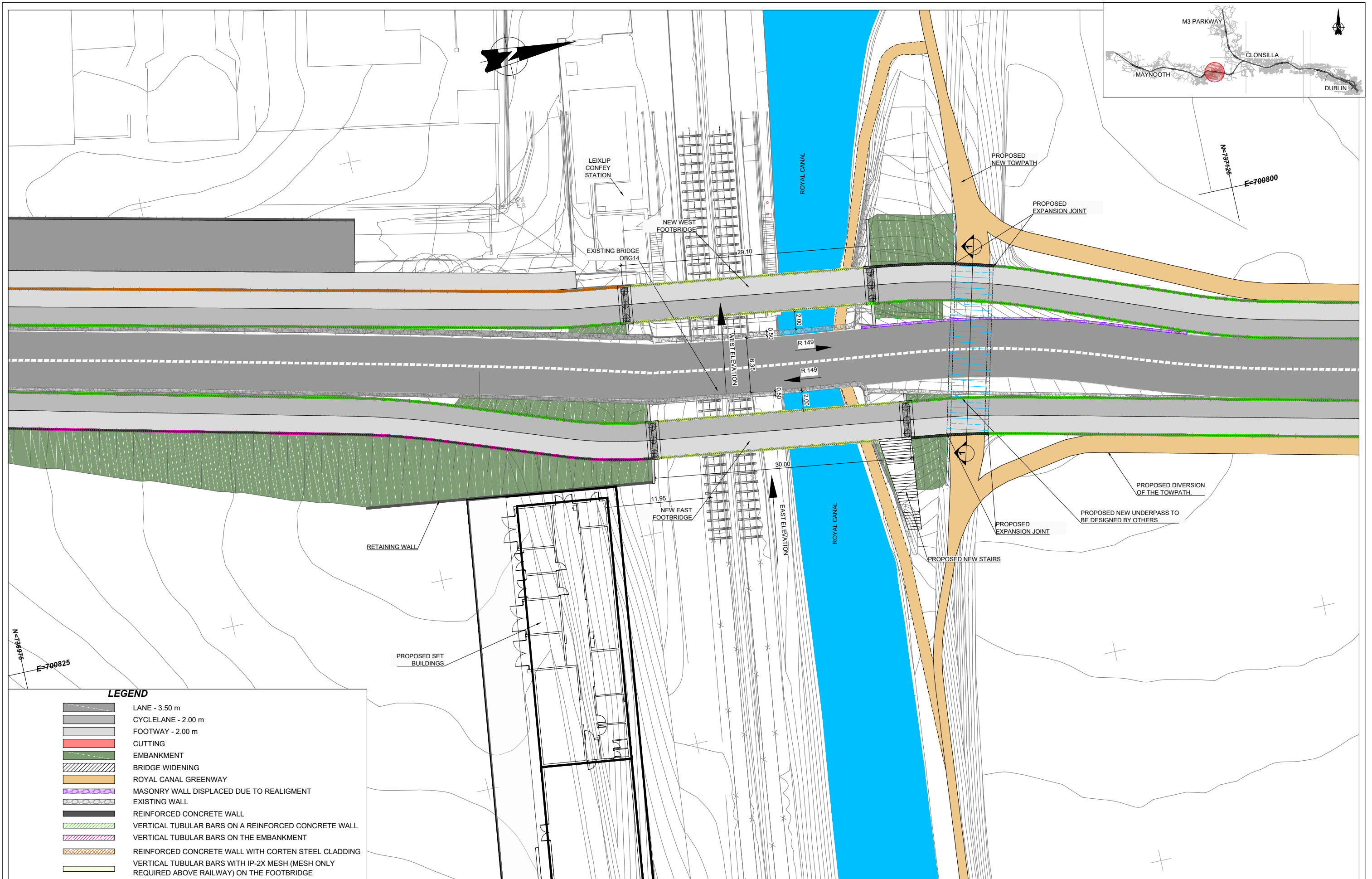
Project: DART+ West

Drawing Title: STRUCTURE DESIGN OBG14 BRIDGE WIDENING OBG14 ROAD BRIDGE, FINAL STATE

Drawing Number: MAY MDC STR RS12 DR C 0003 D

Date: April 2022, Job No: P/101086, Status: F1-Approved & accepted, Rev: V01, Sheet: 2 of 9

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**LEGEND**

	LANE - 3.50 m
	CYCLELANE - 2.00 m
	FOOTWAY - 2.00 m
	CUTTING
	EMBANKMENT
	BRIDGE WIDENING
	ROYAL CANAL GREENWAY
	MASONRY WALL DISPLACED DUE TO REALIGNMENT
	EXISTING WALL
	REINFORCED CONCRETE WALL
	VERTICAL TUBULAR BARS ON A REINFORCED CONCRETE WALL
	VERTICAL TUBULAR BARS ON THE EMBANKMENT
	REINFORCED CONCRETE WALL WITH CORTEN STEEL CLADDING
	VERTICAL TUBULAR BARS WITH IP-2X MESH (MESH ONLY REQUIRED ABOVE RAILWAY) ON THE FOOTBRIDGE

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Client

Tionscald Éireann  
Project Ireland  
2040

NTA  
Údarás Náisiúnta Iompartha  
National Transport Authority

lamróid Éireann  
Irish Rail

Consultant

IDOM

G3

PROJOD  
SOLIGAN & O'DONOVAN

Project

DART+  
West

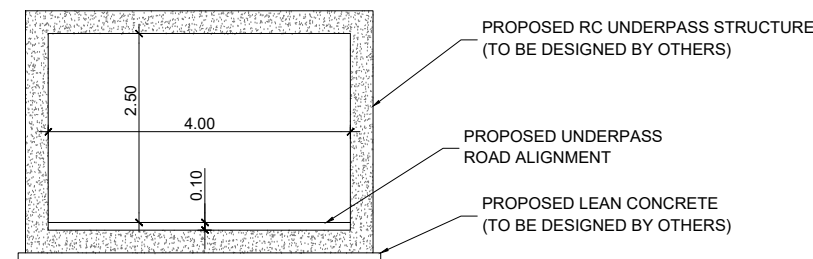
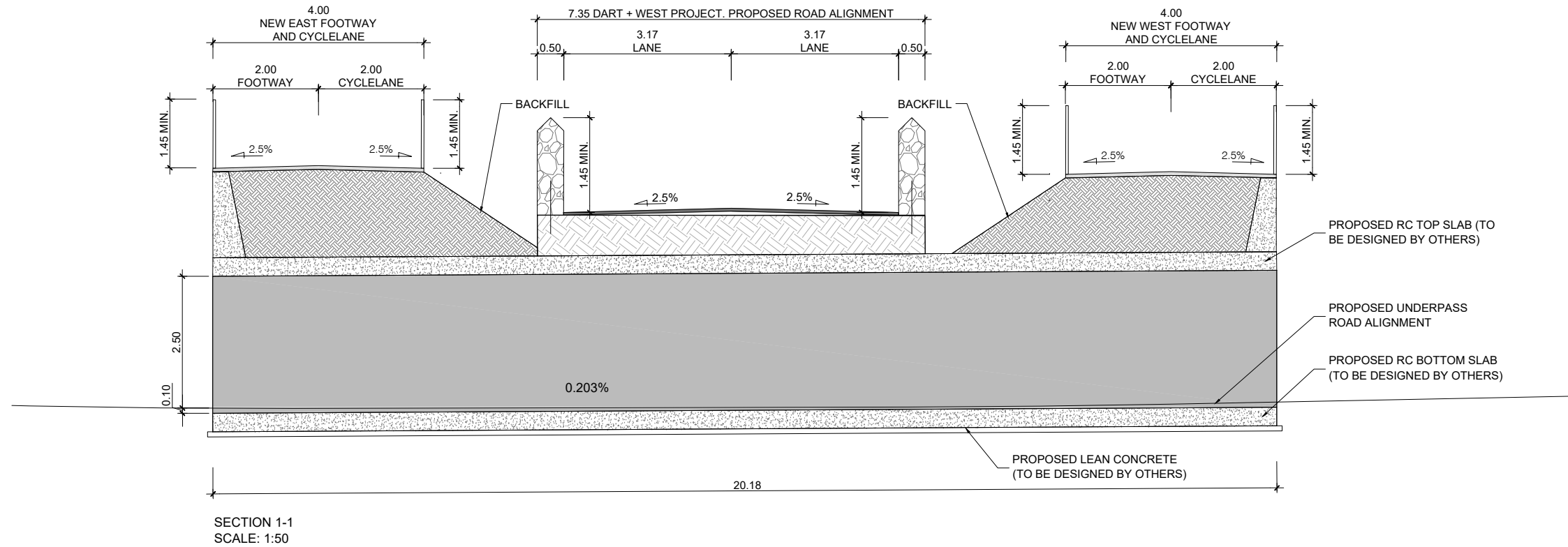
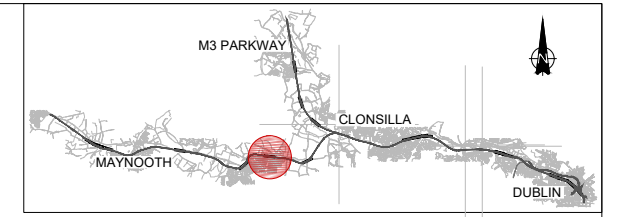
Drawing Title

STRUCTURE DESIGN  
OBG14 BRIDGE WIDENING  
FINAL LAYOUT

Scale:  
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 3 of 9



TYPICAL CROSS SECTION OF THE NEW UNDERPASS  
(TO BE DESIGNED BY OTHERS)  
SCALE: 1:50

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Client

Consultant

Project

Drawing Title

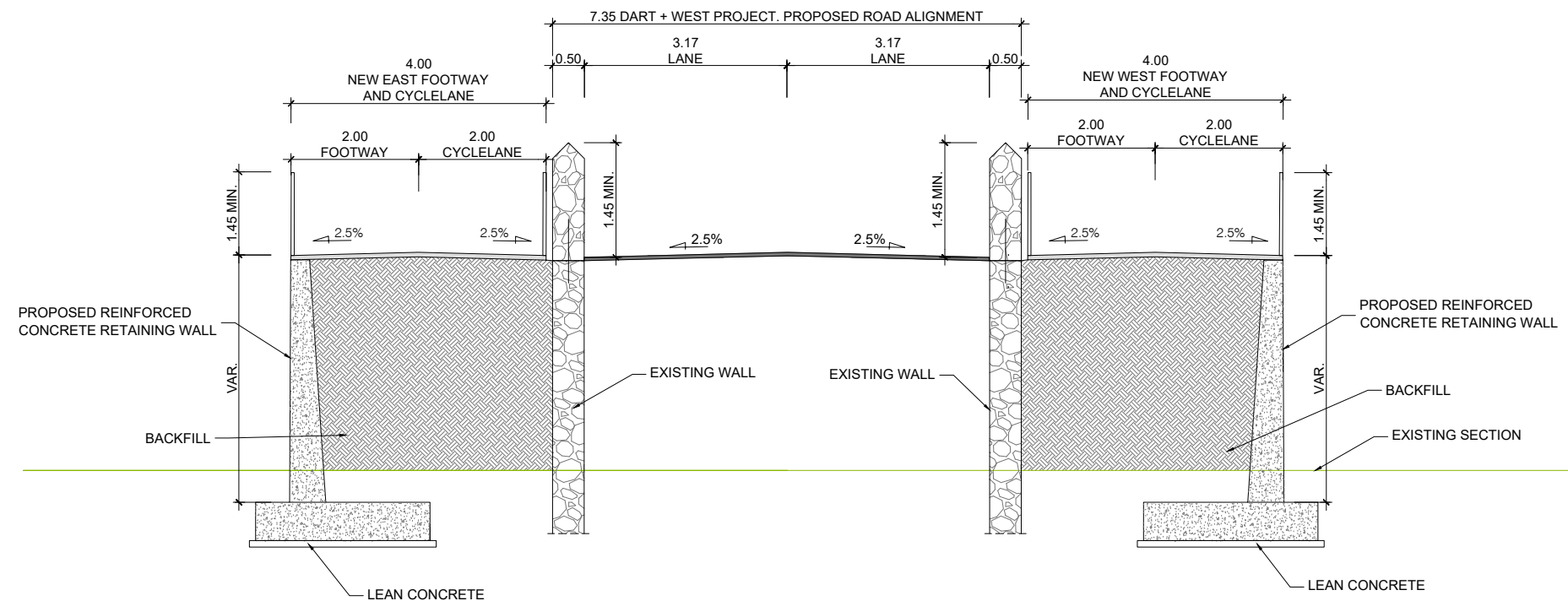
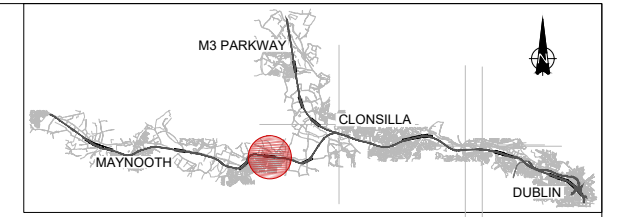
STRUCTURE DESIGN  
OBG14 BRIDGE WIDENING  
FINAL STATE - NEW UNDERPASS CROSS SECTION

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 4 of 9





DETAIL OF THE CONNECTION BETWEEN  
FOOTWAY/CYCLELANE AND EXISTING ROAD  
SCALE: 1:50

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Client

Consultant

Project

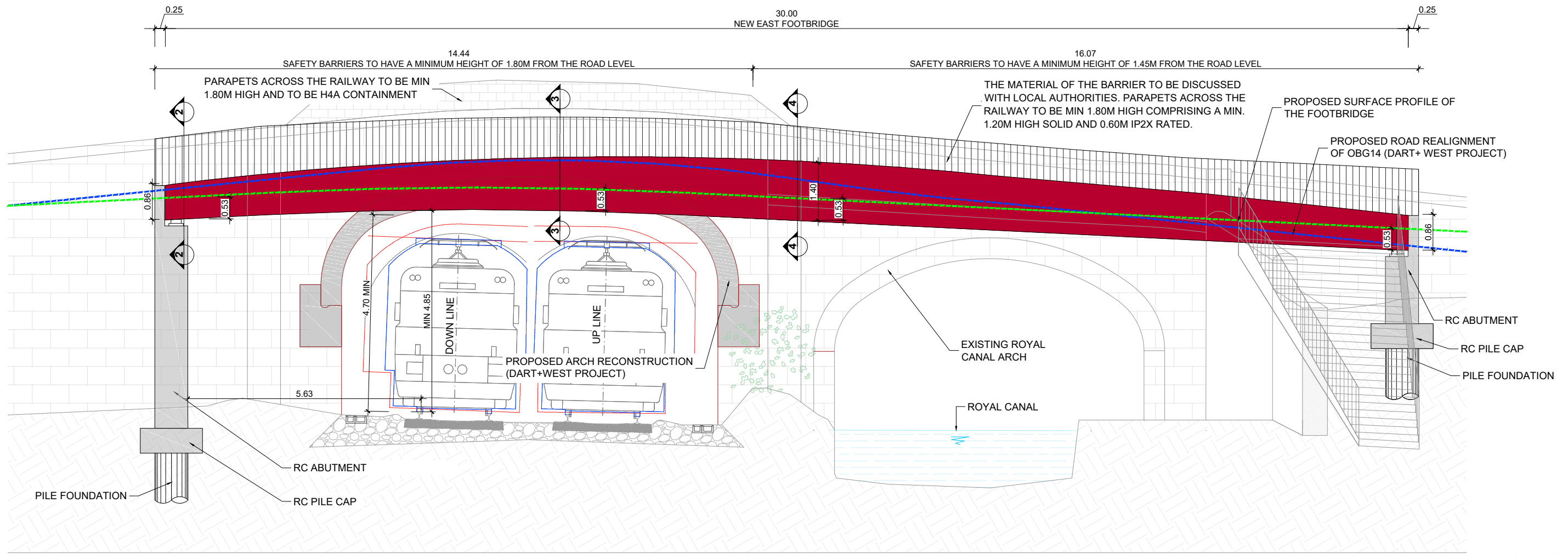
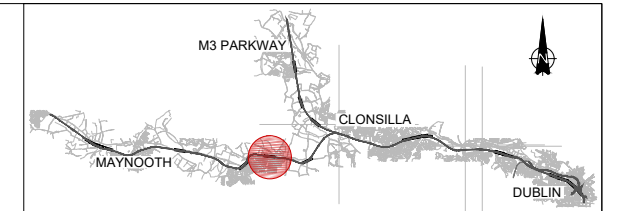
Drawing Title

STRUCTURE DESIGN  
OBG14 BRIDGE WIDENING  
PROPOSED CONNECTION BETWEEN FOOTWAY/CYCLELANE AND EXISTING ROAD

Scale:  
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 5 of 9



EAST ELEVATION  
SCALE: 1:50

LEGEND	
	PROPOSED ROAD REALIGNMENT OF OBG14 (DART+ WEST PROJECT)
	PROPOSED SURFACE PROFILE OF THE FOOTBRIDGE

REV	DATE	DESCRIPTION	EAC	ACJ	CCH
V01	April 2022	PLANNING ISSUE			
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Client

Consultant

Project

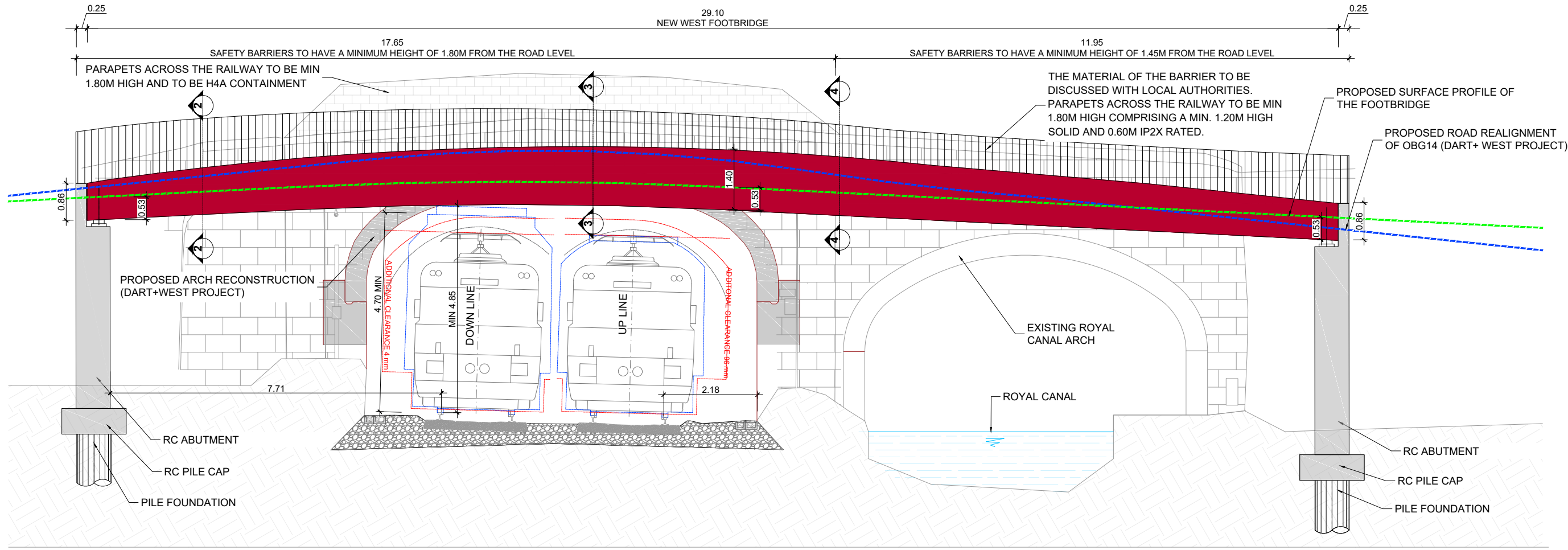
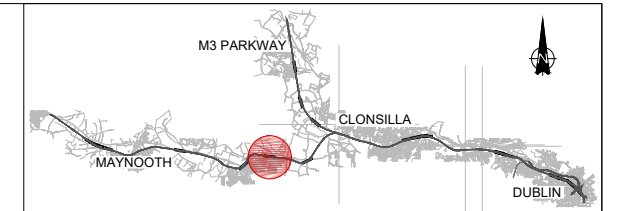
Drawing Title

STRUCTURE DESIGN  
OBG14 BRIDGE WIDENING  
FINAL STATE - EAST ELEVATION

Scale:  
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 6 of 9



WEST ELEVATION  
SCALE: 1:50

**LEGEND**

- PROPOSED ROAD REALIGNMENT OF OBG14 (DART+ WEST PROJECT)
- PROPOSED SURFACE PROFILE OF THE FOOTBRIDGE

REV	DATE	DESCRIPTION	EAC	ACJ	CCH
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Client

Consultant

Project

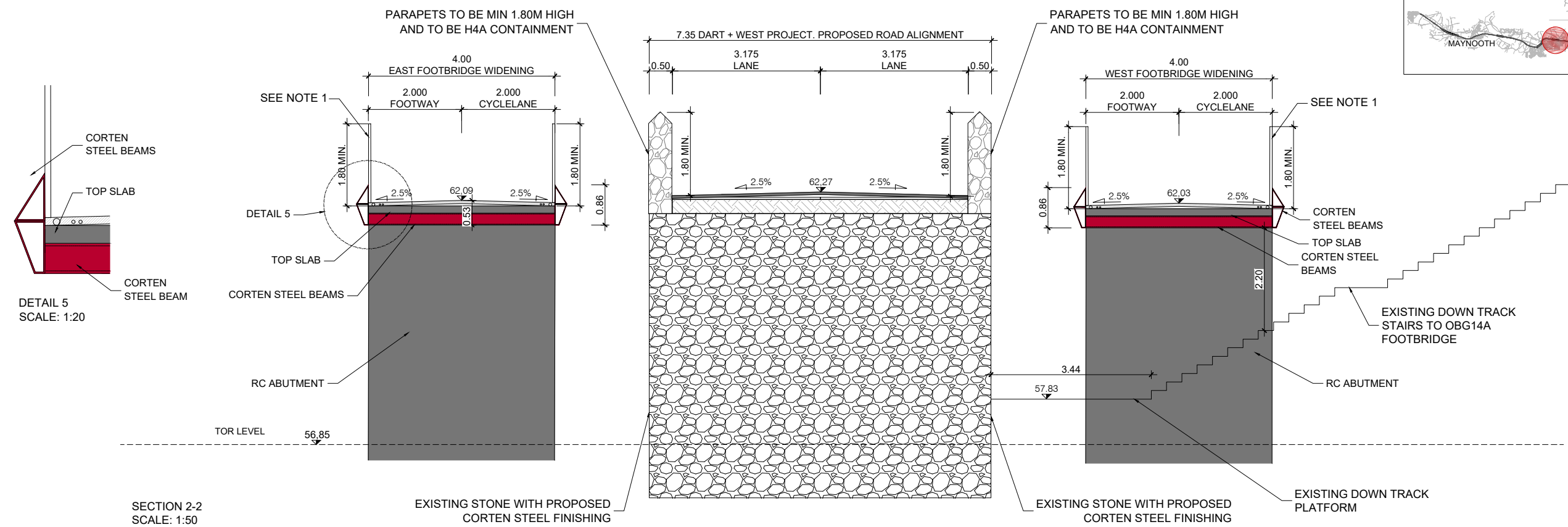
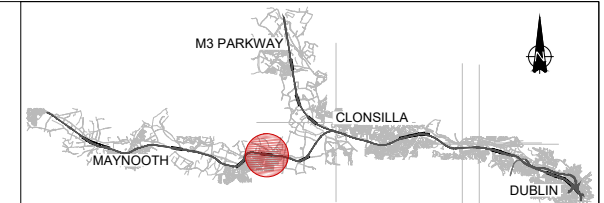
Drawing Title

STRUCTURE DESIGN  
OBG14 BRIDGE WIDENING  
FINAL STATE - WEST ELEVATION

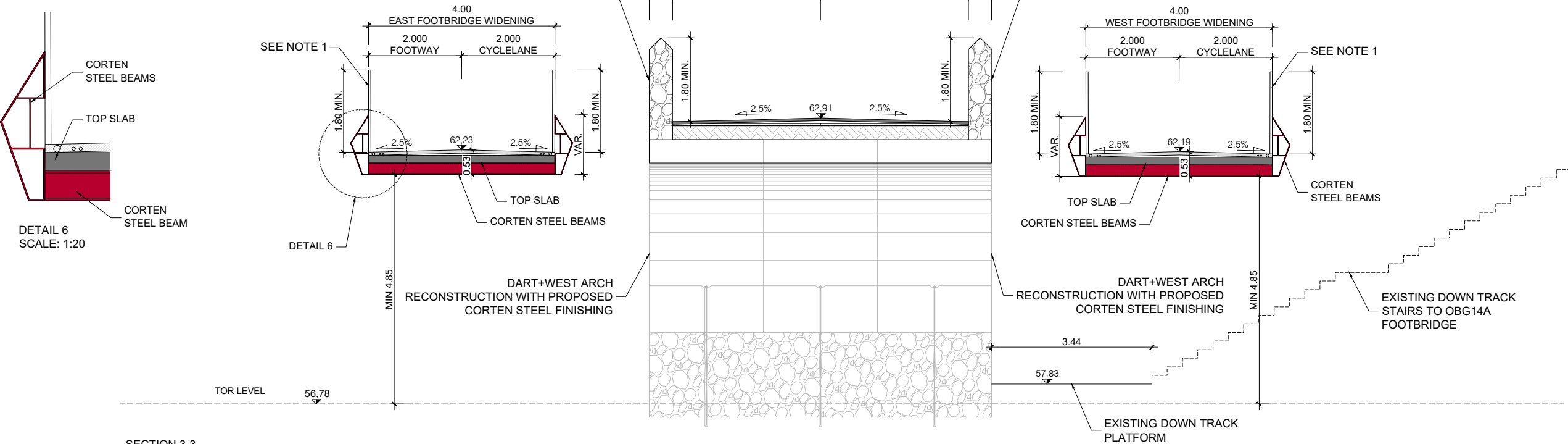
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Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 7 of 9



SECTION 2-2  
SCALE: 1:50



SECTION 3-3  
SCALE: 1:50

NOTE 1: THE MATERIAL OF THE BARRIER TO BE DISCUSSED WITH LOCAL AUTHORITIES. PARAPETS ACROSS THE RAILWAY TO BE MIN 1.80M HIGH COMPRISING A MIN. 1.20M HIGH SOLID AND 0.60M IP2X RATED.

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Client

Tionscaldal Éireann  
Project Ireland  
2040

NTA  
Údarás Náisiúnta Iompartha  
National Transport Authority

Iarnród Éireann  
Irish Rail

Consultant

IDOM

G3

IROD  
EORIGIAN & O'DONOVAN

Project

DART+  
West

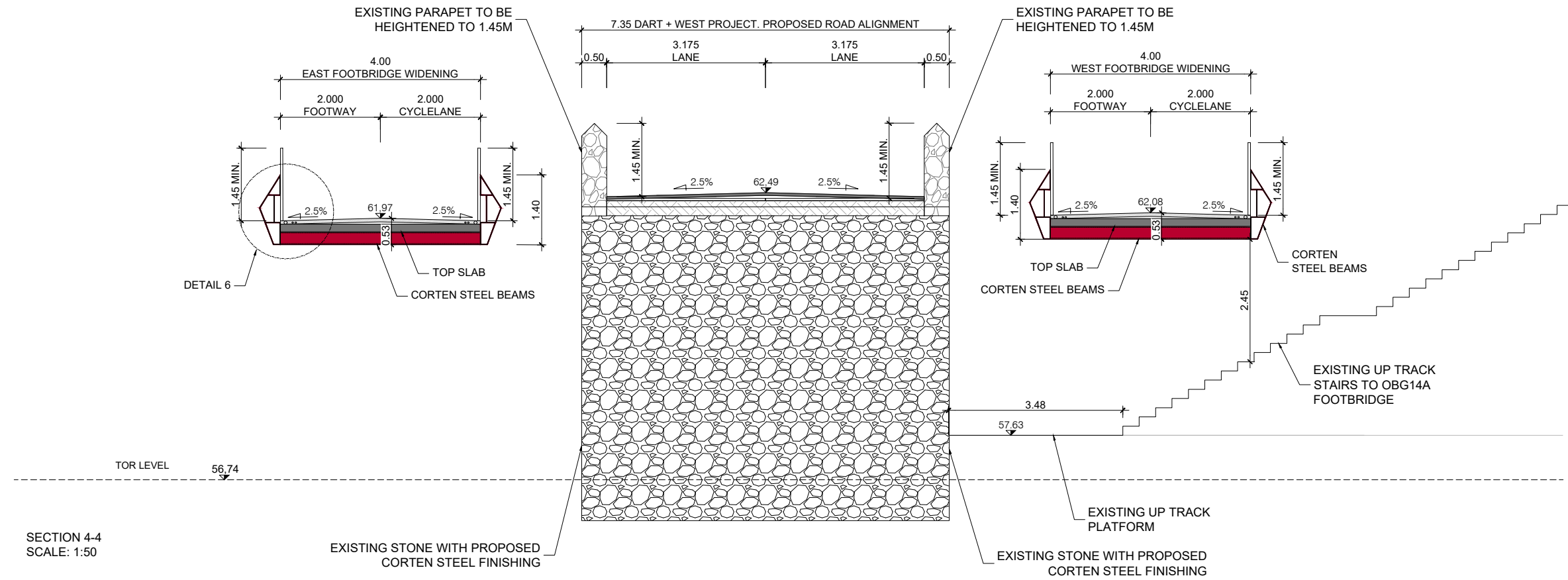
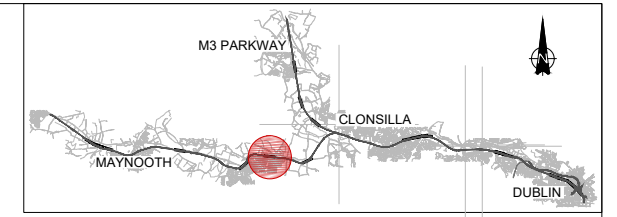
Drawing Title

STRUCTURE DESIGN  
OBG14 BRIDGE WIDENING  
FINAL STATE - CROSS SECTION (I)

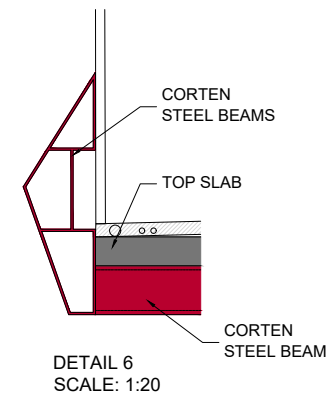
Scale:  
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 8 of 9



SECTION 4-4  
SCALE: 1:50



DETAIL 6  
SCALE: 1:20

REV	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY
V01	April 2022	PLANNING ISSUE	EAC	ACJ	CCH

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 Survey No. 6039720 (OSi Aerial Data or OSi Lidar Data) & Survey No. 2020OSI\_NMA\_180 (OSi Vector Data).  
 All elevations are in metres and relate to OSi Geoid Model (OSiGM02) Mean Head as defined by existing Project Control.  
 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TL49).

Client

Consultant

Project

Drawing Title

STRUCTURE DESIGN  
OBG14 BRIDGE WIDENING  
FINAL STATE - CROSS SECTION (II)

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase  
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 9 of 9