
SPECIFIC LOCATIONS

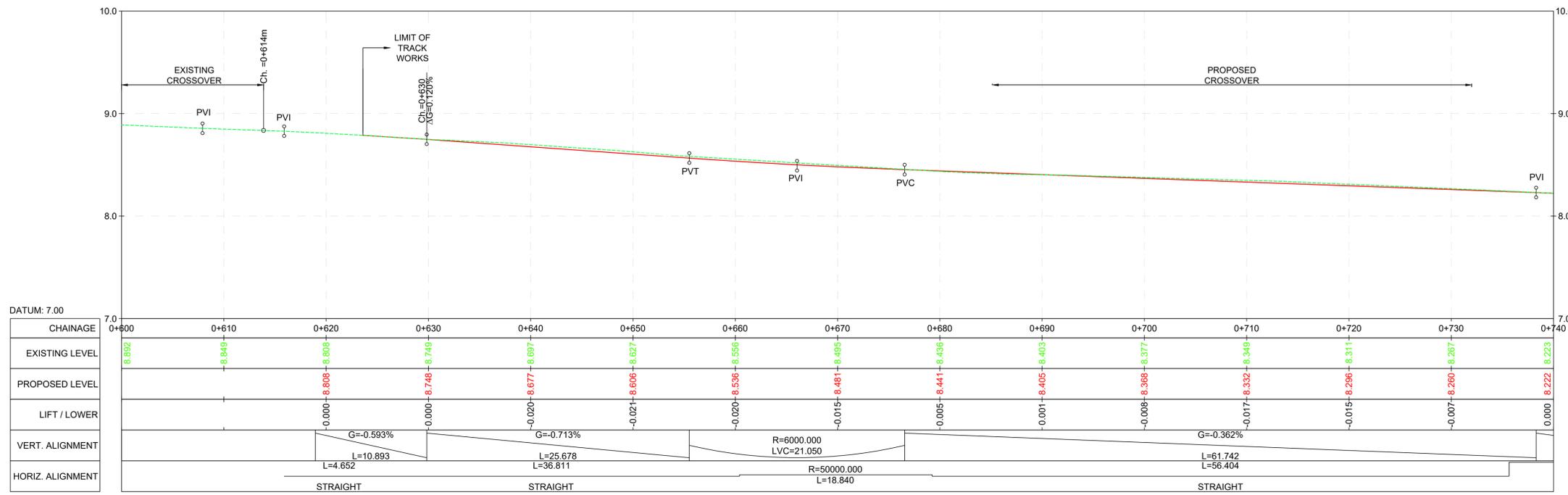
02 Howth

**HOWTH JUNCTION
TURNBACK**

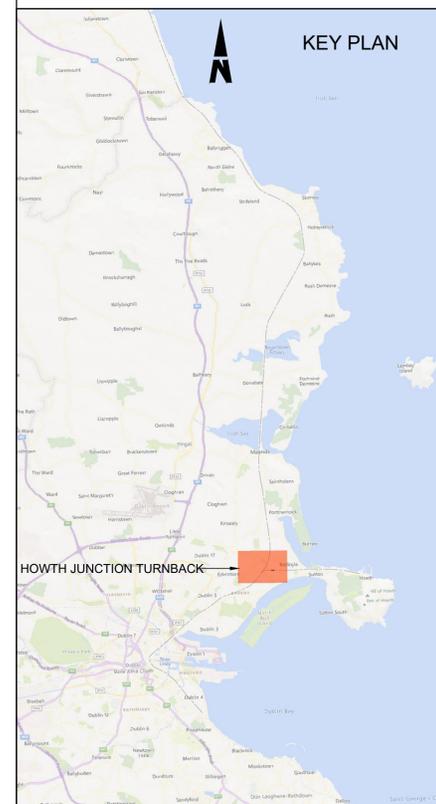


- NOTES**
- Chainages, levels and coordinates are shown in meters. All other dimensions are shown in millimeters, unless otherwise stated. All clearance and six-foot intervals are quoted to running edges (RE)
 - Chainage datum is 1+000 located at the toe of the existing turnout 603B on the Up Main Cess Rail. It applies for the Up/Down Main
 - Track gauge to be nominal 1602mm for plain line and 1600mm for P&C
 - All P&C shall be vertical rail. All P&C geometries shall be in accordance with IE manufacturers' drawings and CCE-TMS-300 Track Construction Requirements and Tolerances
 - Radii quoted are from track centreline, unless otherwise stated
 - Modular compliant layouts throughout
 - Proposed and existing overhead line equipment (OHLE) is not shown in plan or profile.
 - Refer to Book 3 Linear Works Plans for OHLE shown in plan.

- LEGEND**
- PLAN**
- DEVELOPMENT BOUNDARY
 - RUNNING LINE
 - SIDINGS
 - PROPOSED TRACK WORK
 - TRACK WORK TO BE REMOVED
 - EXISTING STATION PLATFORMS
 - RAISED 1.38m DRIVER WALKWAY
 - CESS WALKWAY
- LONGITUDINAL PROFILE**
- PROPOSED MAIN RAIL
 - EXISTING MAIN RAIL
 - EXISTING GROUND
- PVC (Point of Start of Curve)
 PVT (Point of Start of Tangent)
 PVI (Point of Intersection)



DOWN HOWTH PROFILE
SCALE 1:250 (H) 1:25 (V)



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Rev	Date	Drn	Chk'd	App'd	Description
P01	13/10/2023	MV	SS	DB	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ARUP**

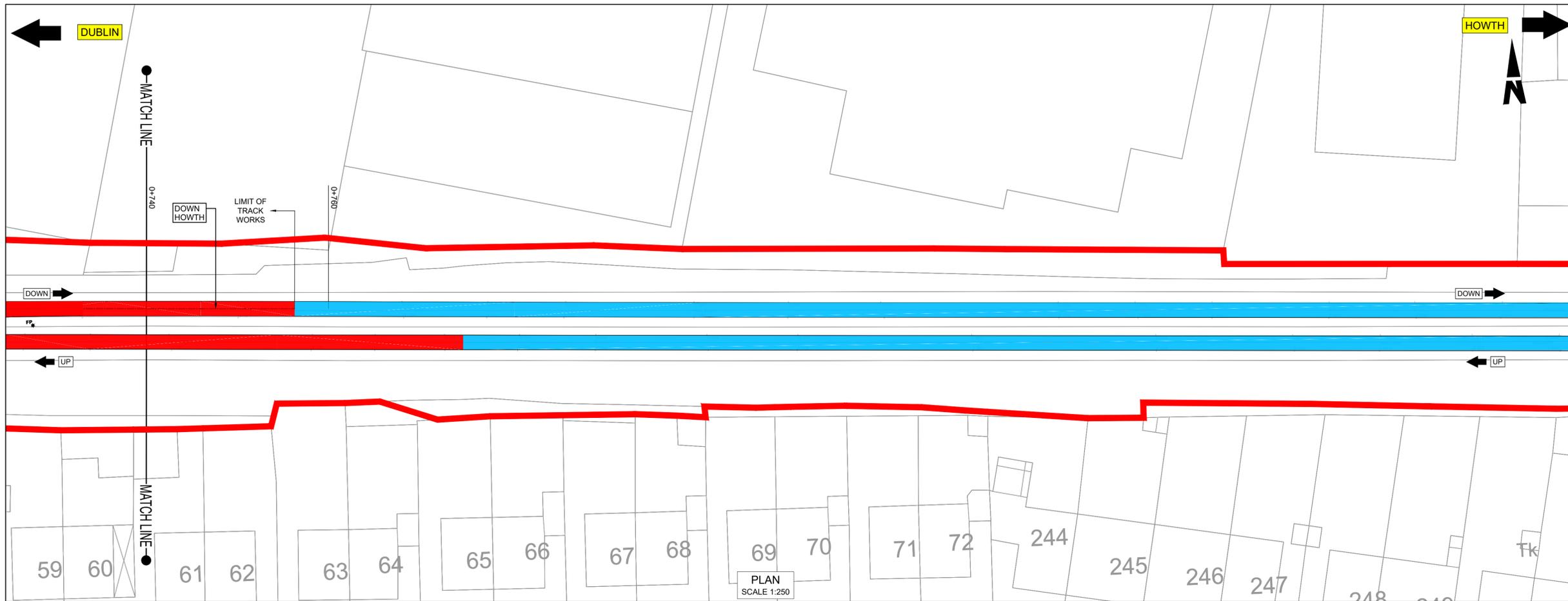
Date: 01/06/2023 | Scale: AS SHOWN @ A1 @ A3

Project Code: D+WP56 | Originator Code: ARP

QMS Code: 280275-00

Drawn: MV | Checked: SS | Approved: DB

Project Title: DART+ COASTAL NORTH			
Drawing Title: HOWTH JUNCTION TURNBACK TRACK ALIGNMENT			
Drawing File Name: D+WP56-ARP-P4-NL-DR-RO-000200	Sheet Number: 01 of 03	Status: S3	Rev: P01

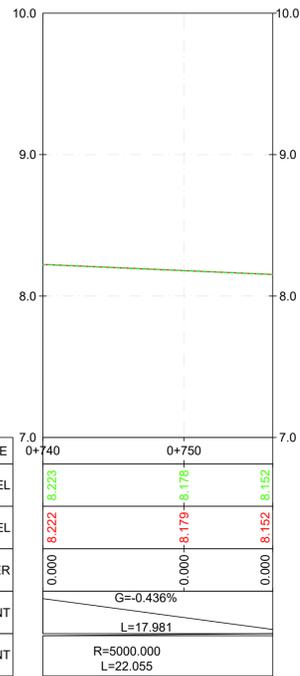


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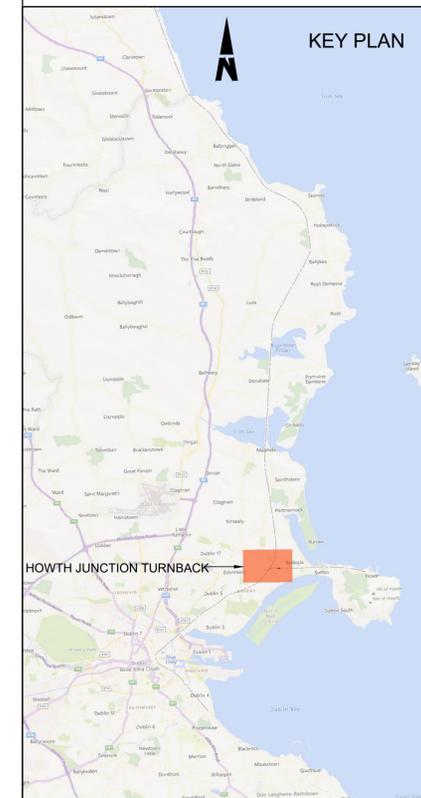
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LEGEND

- PLAN**
- DEVELOPMENT BOUNDARY
 - RUNNING LINE
 - SIDINGS
 - PROPOSED TRACK WORK
 - TRACK WORK TO BE REMOVED
 - EXISTING STATION PLATFORMS
 - RAISED 1.38m DRIVER WALKWAY
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- PROPOSED MAIN RAIL
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 - EXISTING GROUND
- PVC (Point of Start of Curve)
 PVT (Point of Start of Tangent)
 PVI (Point of Intersection)



DOWN HOWTH PROFILE
SCALE 1:250 (H) 1:25 (V)



KEY PLAN

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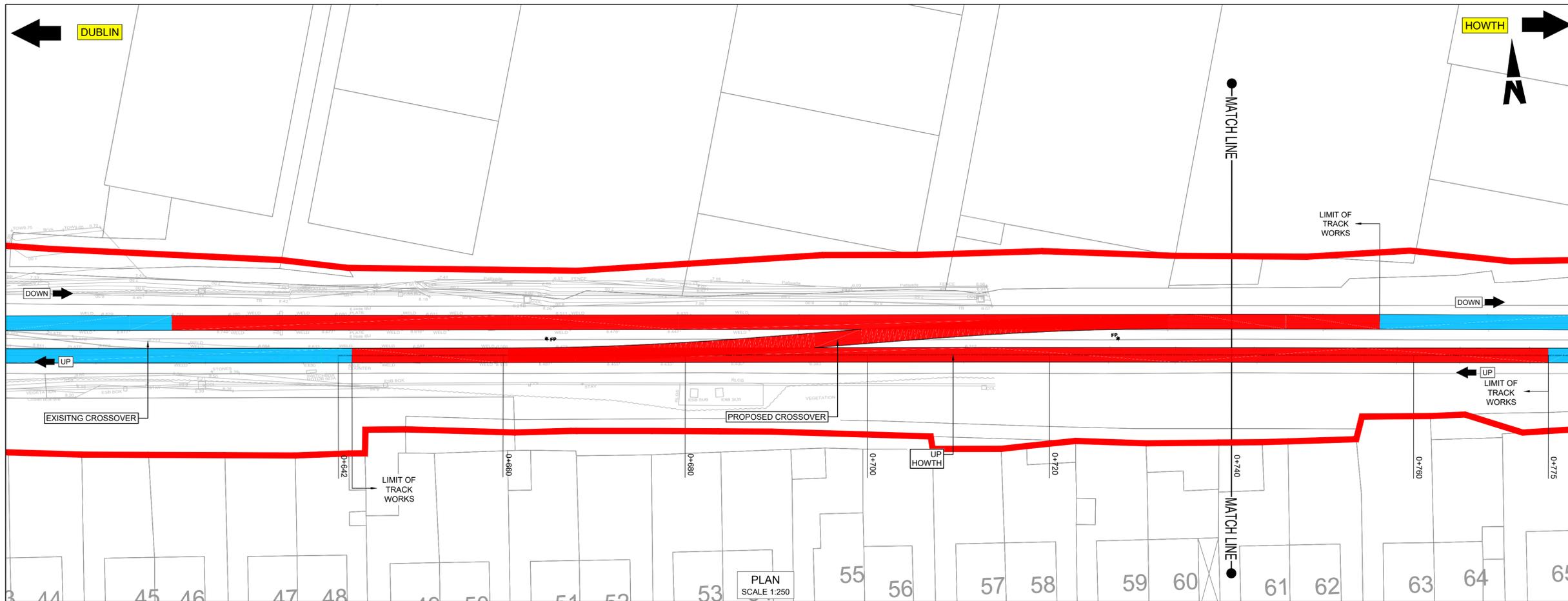
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Rev	Date	Drn	Chk'd	App'd	Description
P01	13/10/2023	MV	SS	DB	PLANNING ISSUE

Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 01/06/2023	Scale AS SHOWN @ A1 @ A3	Drawn MV	Checked SS	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 280275-00		

Project Title DART+ COASTAL NORTH			
Drawing Title HOWTH JUNCTION TURNBACK TRACK ALIGNMENT			
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000201	Sheet Number 02 of 03	Status S3	Rev P01

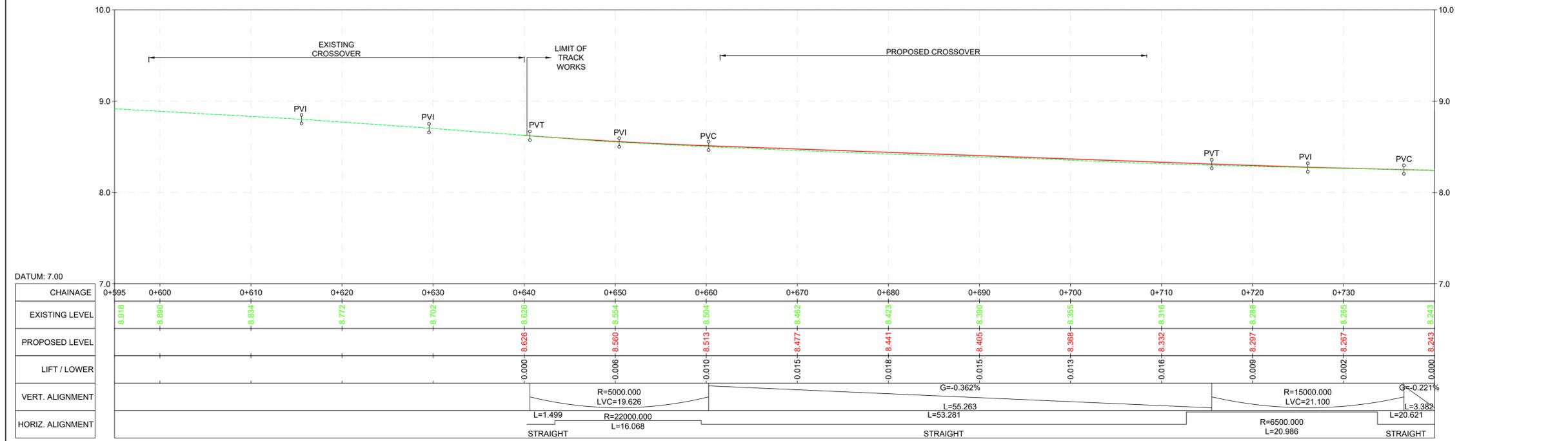


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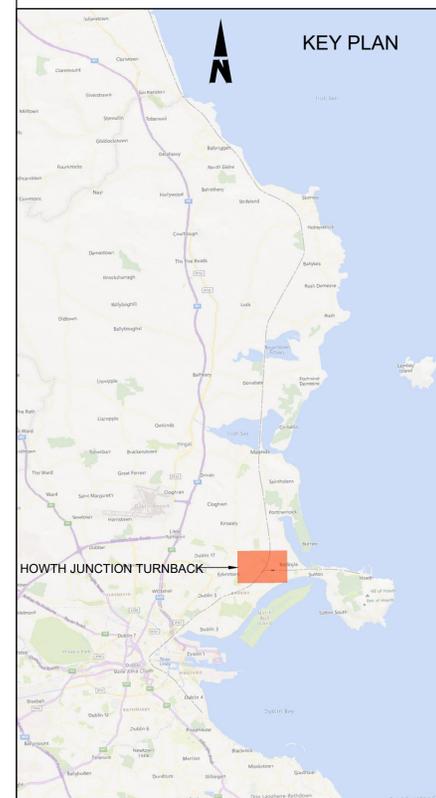
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LEGEND

- PLAN**
- DEVELOPMENT BOUNDARY
 - RUNNING LINE
 - SIDINGS
 - PROPOSED TRACK WORK
 - TRACK WORK TO BE REMOVED
 - EXISTING STATION PLATFORMS
 - RAISED 1.38m DRIVER WALKWAY
 - CESS WALKWAY
- LONGITUDINAL PROFILE**
- PROPOSED MAIN RAIL
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 - EXISTING GROUND
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 PVT (Point of Start of Tangent)
 PVI (Point of Intersection)



UP HOWTH PROFILE
SCALE 1:250 (H) 1:25 (V)



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Rev	Date	Drn	Chk'd	App'd	Description
P01	13/10/2023	MV	SS	DB	PLANNING ISSUE

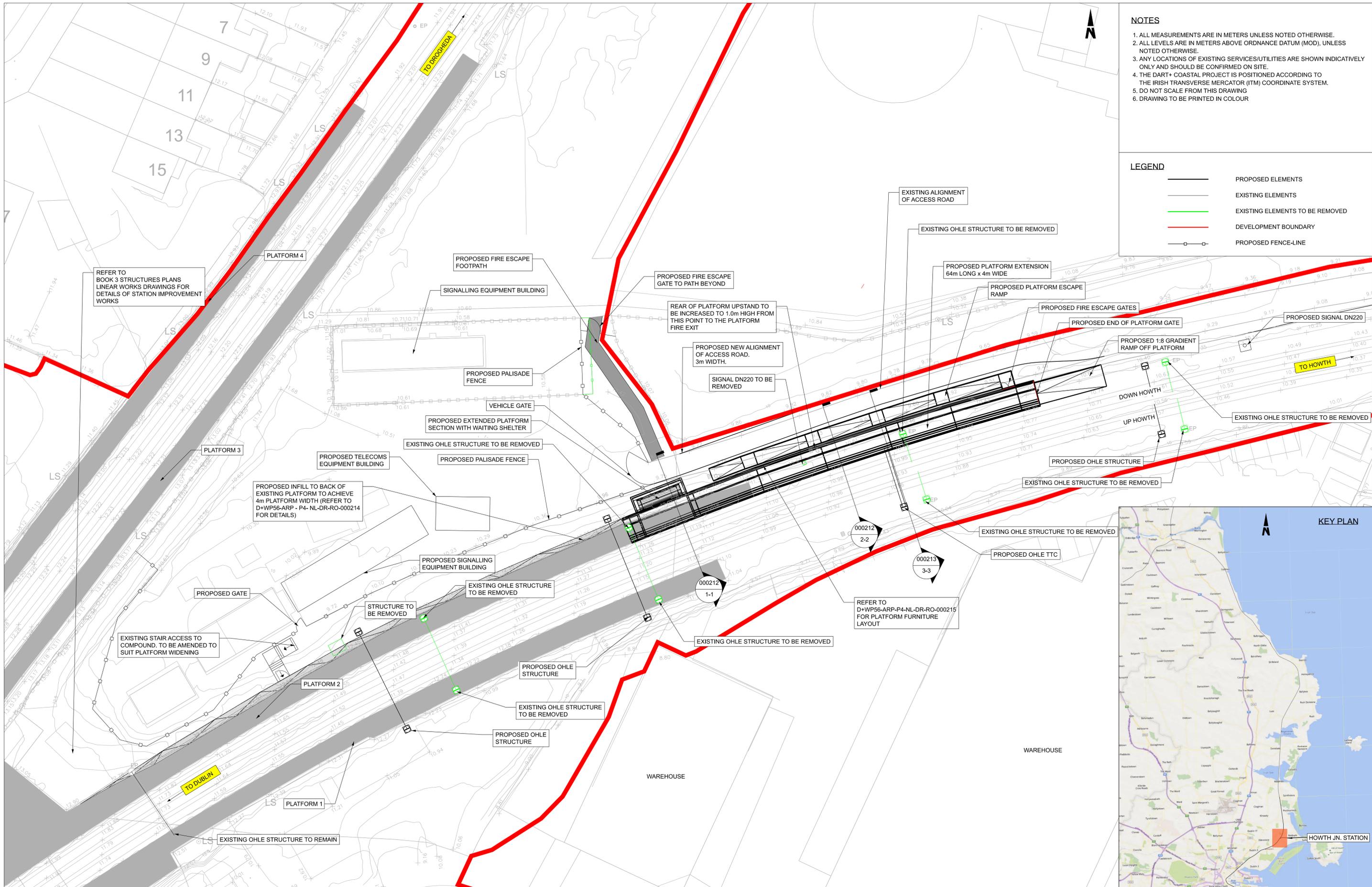
Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 01/06/2023 | Scale: AS SHOWN @ A1 | Drawn: MV | Checked: SS | Approved: DB

Project Code: D+WP56 | Originator Code: ARP | QMS Code: 280275-00

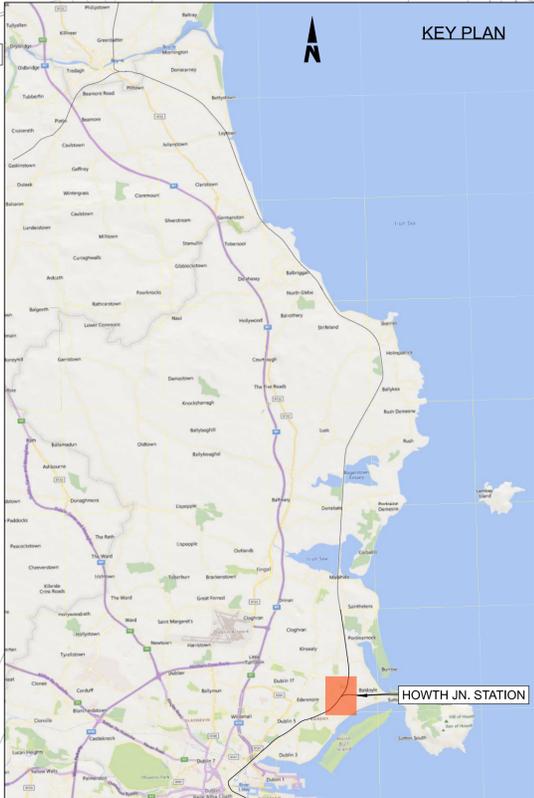
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Drawing Title	HOWTH JUNCTION TURNBACK TRACK ALIGNMENT		
Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-P4-NL-DR-RO-000202	03 of 03	S3	P01



- NOTES**
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 2. ALL LEVELS ARE IN METERS ABOVE ORDNANCE DATUM (MOD), UNLESS NOTED OTHERWISE.
 3. ANY LOCATIONS OF EXISTING SERVICES/UTILITIES ARE SHOWN INDICATIVELY ONLY AND SHOULD BE CONFIRMED ON SITE.
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 5. DO NOT SCALE FROM THIS DRAWING
 6. DRAWING TO BE PRINTED IN COLOUR

LEGEND

	PROPOSED ELEMENTS
	EXISTING ELEMENTS
	EXISTING ELEMENTS TO BE REMOVED
	DEVELOPMENT BOUNDARY
	PROPOSED FENCE-LINE



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Rev	Date	Drm	Chk'd	App'd	Description
P01	03/11/2023	MV	EJ	DB	PLANNING ISSUE

Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 01/06/2023	Scale 1:250 @ A1 1:500 @ A3	Drawn AC	Checked EJ	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 280275-00		

Project Title DART+ COASTAL NORTH	Sheet Number 01 of 01	Status S3	Rev P01
Drawing Title HOWTH JUNCTION TURNBACK PLATFORM WORKS GENERAL ARRANGEMENT	Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000210		

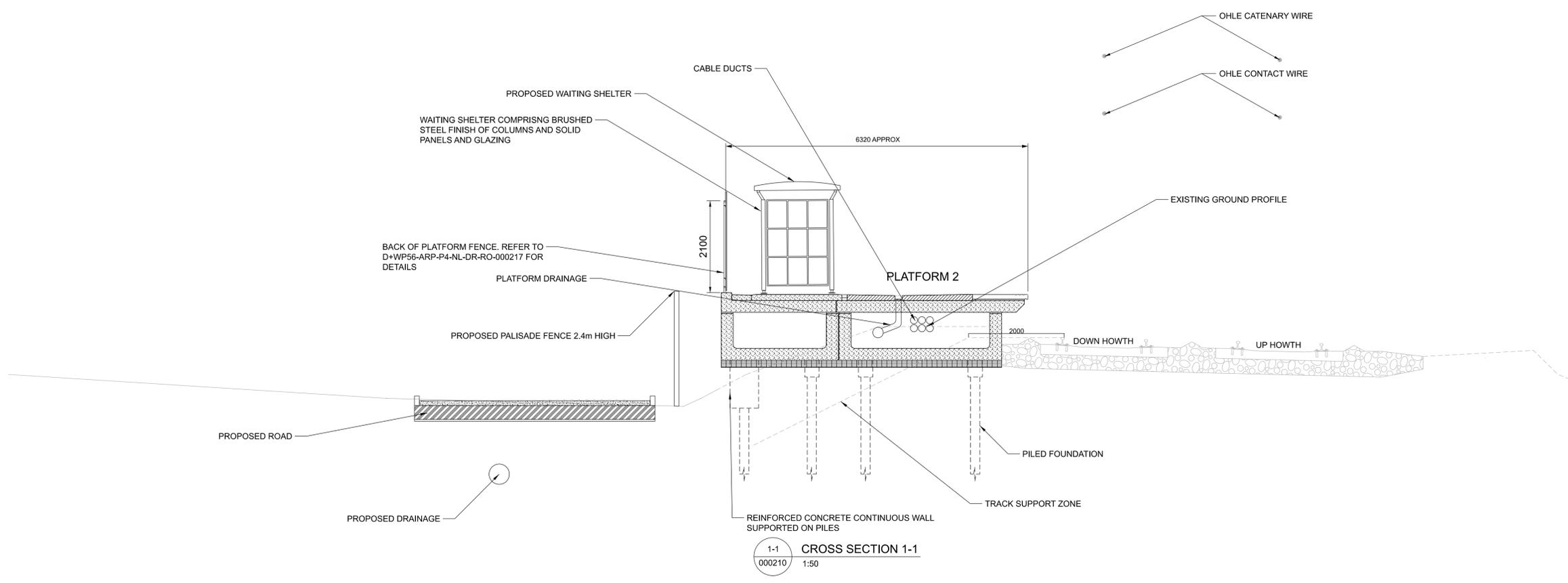
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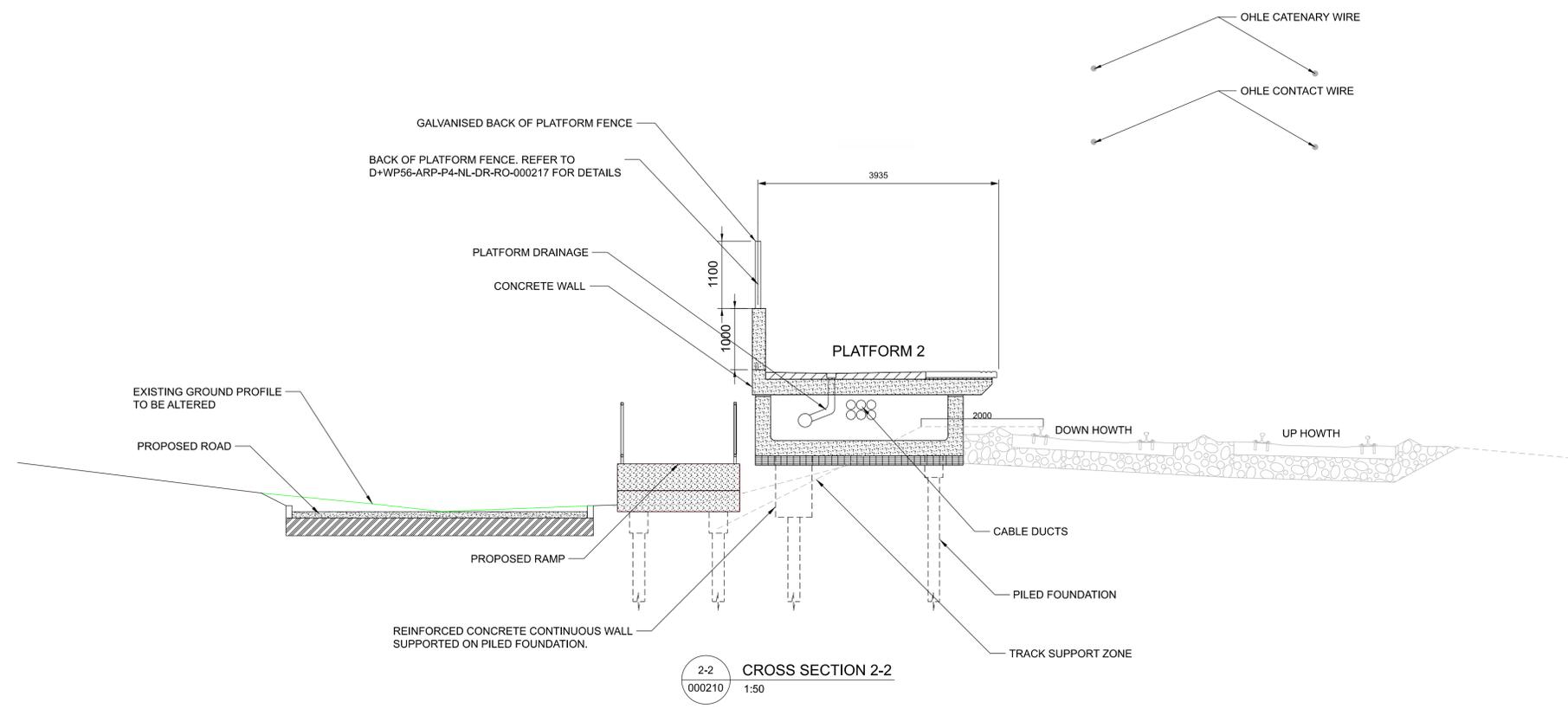
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5. DIMENSIONS MAY VARY TO ACCOUNT FOR TRACK CURVATURE AND CANT

LEGEND

- PROPOSED ELEMENTS
- EXISTING ELEMENTS
- REMOVED ELEMENTS



1-1 CROSS SECTION 1-1
000210 1:50



2-2 CROSS SECTION 2-2
000210 1:50

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Rev	Date	Dwn	Chk'd	App'd	Description
P01	03/11/2023	MV	EJ	DB	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 01/06/2023 Scale: 1:50 @ A1, 1:100 @ A3

Project Code: D+WP56 Originator Code: ARP

QMS Code: 280275-00

Drawn: AC, Checked: EJ, Approved: DB

Project Title: DART+ COASTAL NORTH			
Drawing Title: HOWTH JUNCTION TURNBACK CROSS SECTIONS SHEET 1 OF 2			
Drawing File Name: D+WP56-ARP-P4-NL-DR-RO-000212	Sheet Number: 01 of 02	Status: S3	Rev: P01

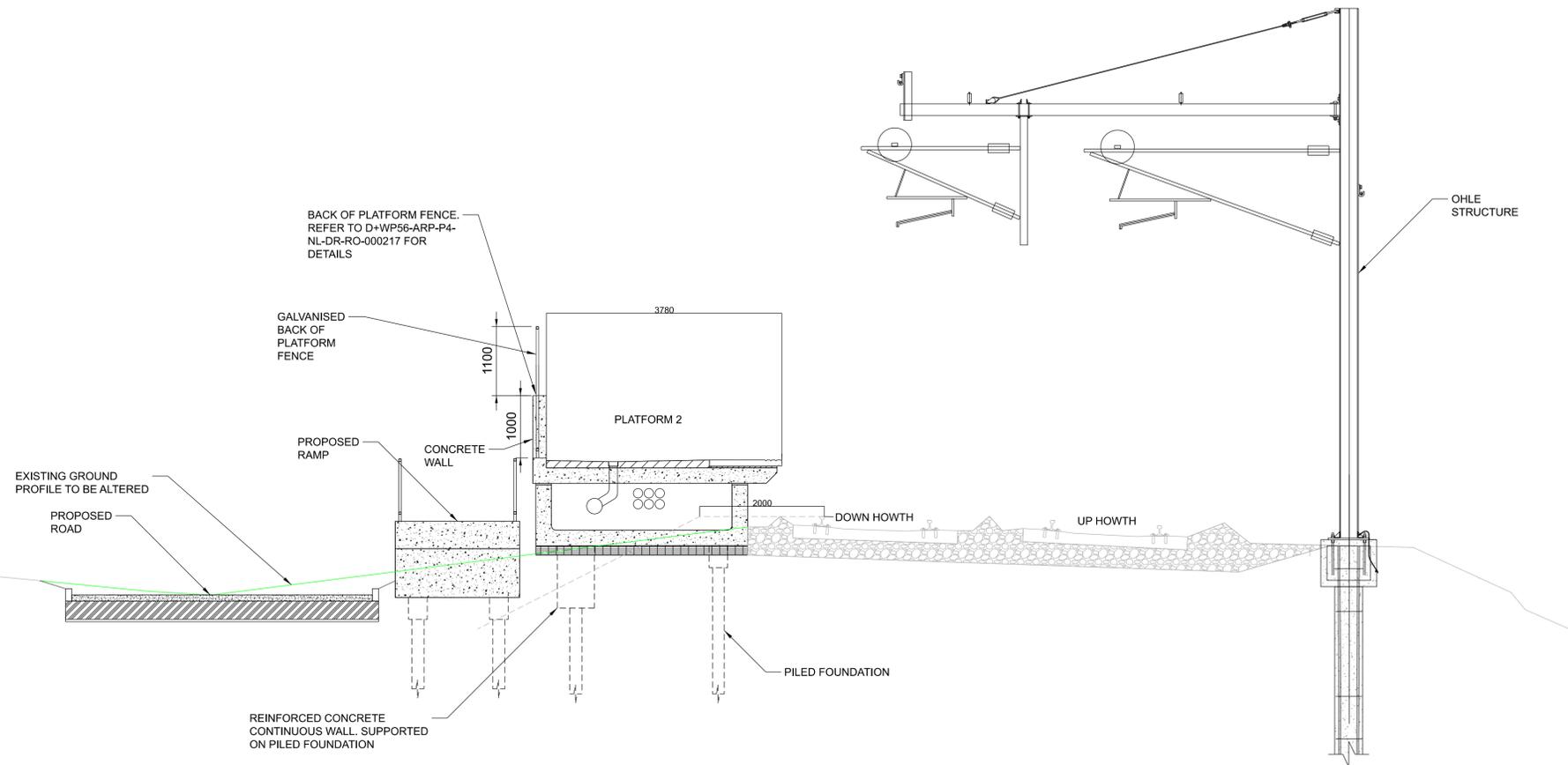
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NOTES

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5. DIMENSIONS MAY VARY TO ACCOUNT FOR TRACK CURVATURE AND CANT

LEGEND

- PROPOSED ELEMENTS
- EXISTING ELEMENTS
- REMOVED ELEMENTS



3-3 CROSS SECTION 3-3
000210 1:50

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Rev	Date	Dwn	Chk'd	App'd	Description
P01	03/11/2023	MV	EJ	DB	PLANNING ISSUE



Date: 01/06/2023
 Project Code: D+WP56



Scale: 1:50 @ A1, 1:100 @ A3
 Originator Code: ARP

Project Title: DART+ COASTAL NORTH			
Drawing Title: HOWTH JUNCTION TURNBACK CROSS SECTIONS SHEET 2 OF 2			
Drawing File Name: D+WP56-ARP-P4-NL-DR-RO-000213	Sheet Number: 02 of 02	Status: S3	Rev: P01

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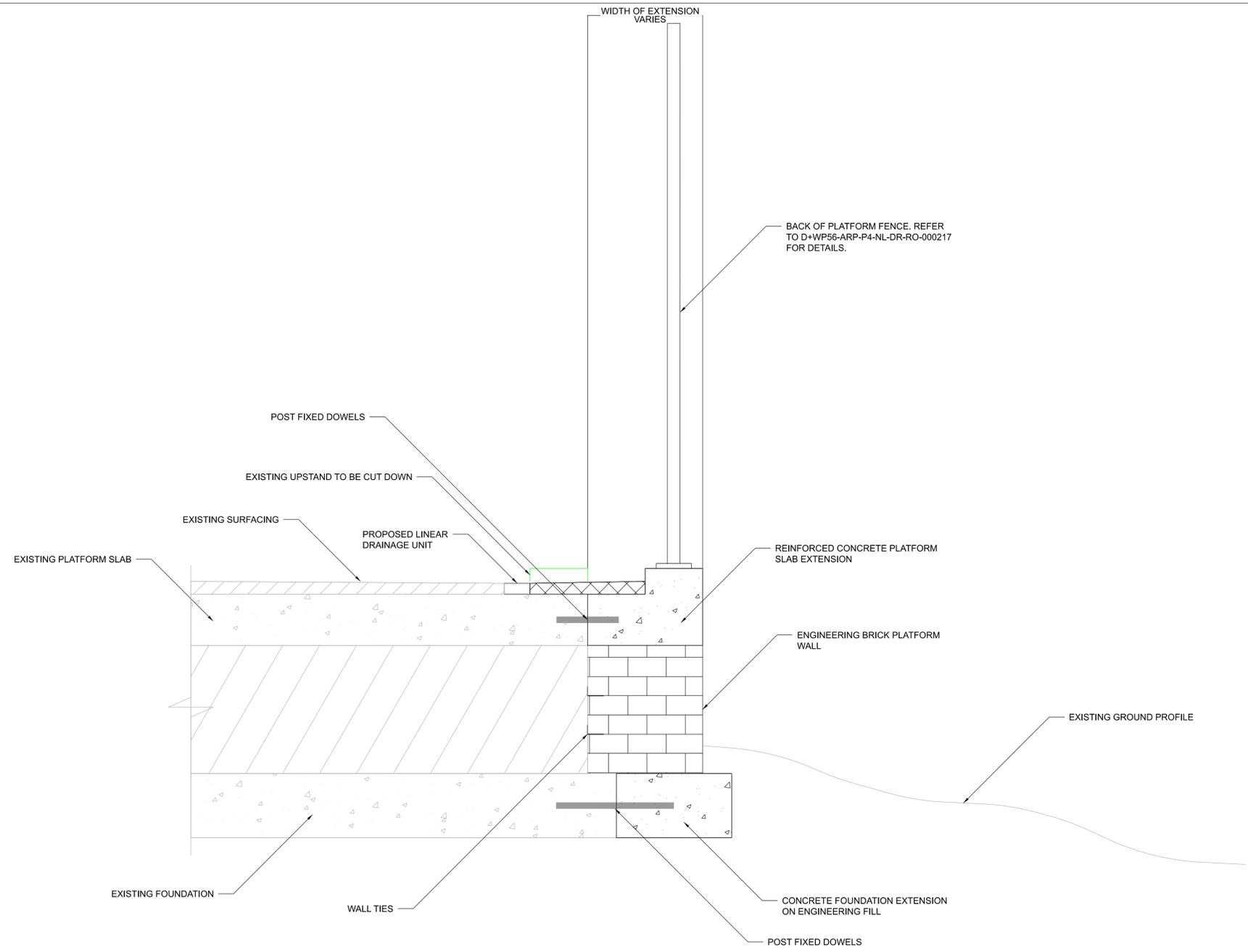


NOTES

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5. DIMENSIONS MAY VARY TO ACCOUNT FOR TRACK CURVATURE AND CANT

LEGEND

-  PROPOSED ELEMENTS
-  EXISTING ELEMENTS
-  ELEMENTS TO BE REMOVED



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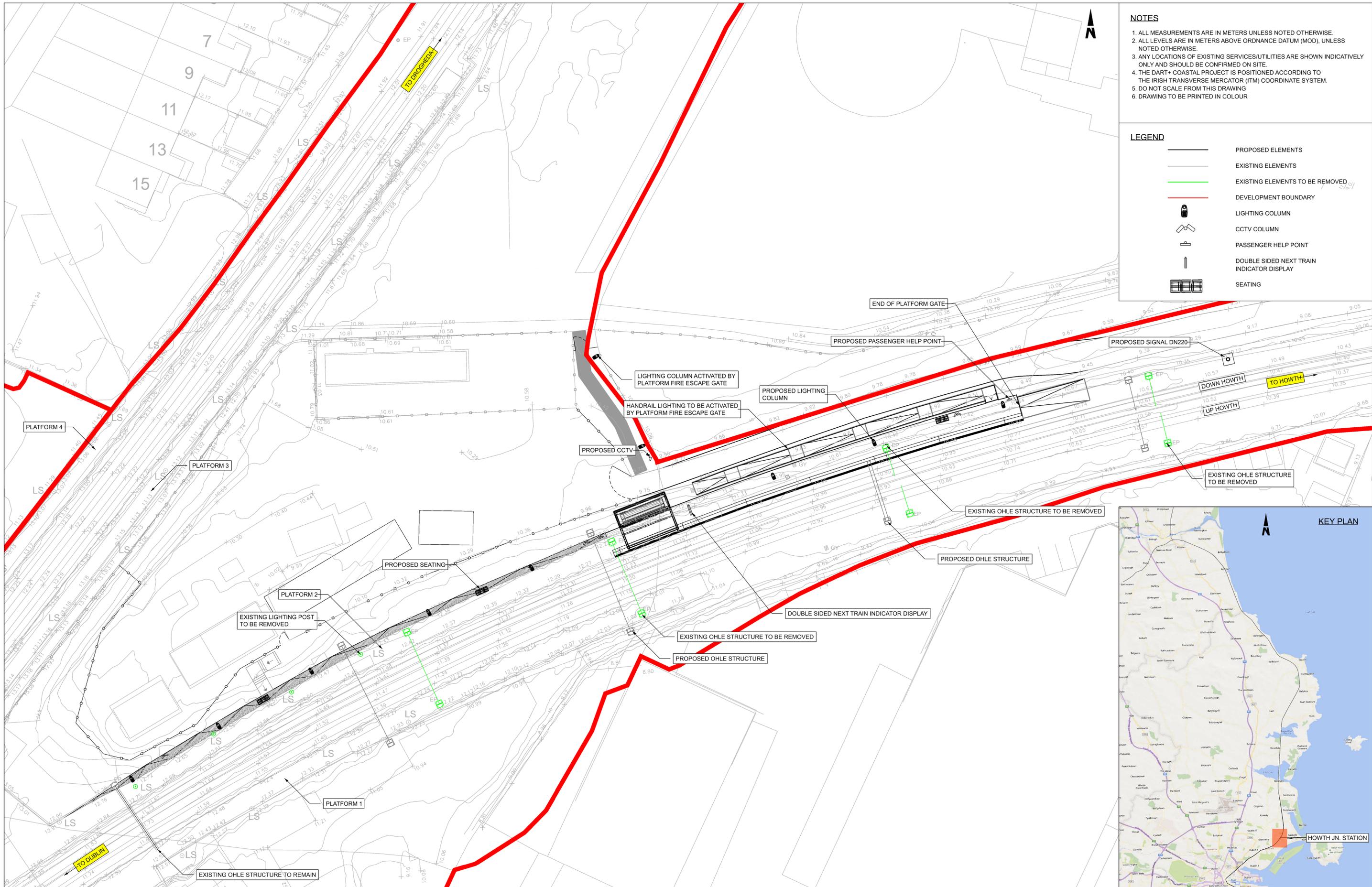


Rev	Date	Drn	Chk'd	App'd	Description
P01	03/11/2023	MV	EJ	DB	PLANNING ISSUE

Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 01/06/2023	Scale 1:10 @ A1 1:20 @ A3	Drawn AC	Checked EJ	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 280275-00		

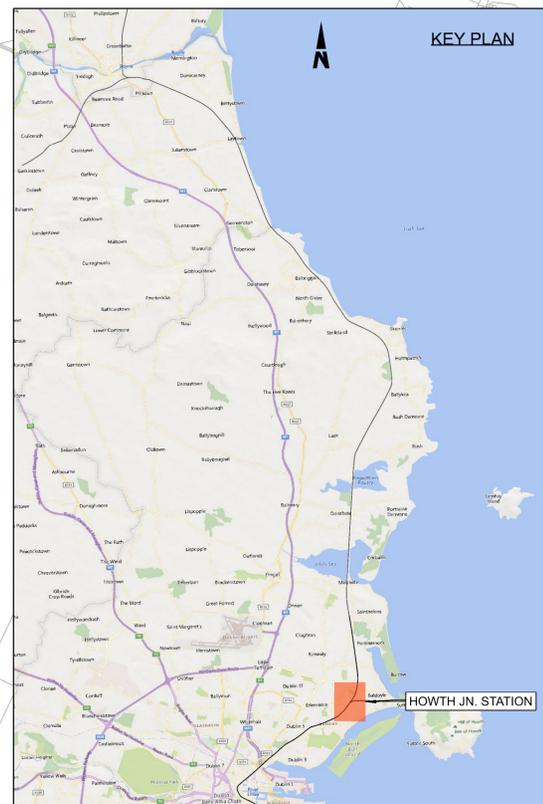
Project Title DART+ COASTAL NORTH			
Drawing Title HOWTH JUNCTION TURNBACK PLATFORM EXTENSION DETAIL			
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000214	Sheet Number 01 of 01	Status S3	Rev P01

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 6. DRAWING TO BE PRINTED IN COLOUR

- LEGEND**
- PROPOSED ELEMENTS
 - EXISTING ELEMENTS
 - EXISTING ELEMENTS TO BE REMOVED
 - DEVELOPMENT BOUNDARY
 - ⊙ LIGHTING COLUMN
 - ⊙ CCTV COLUMN
 - ⊙ PASSENGER HELP POINT
 - ⊙ DOUBLE SIDED NEXT TRAIN INDICATOR DISPLAY
 - ⊙ SEATING



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Rev	Date	Drm	Chk'd	App'd	Description
P01	21/06/2023	AC	EJ	DB	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 01/06/2023 | Scale: 1:250 @ A1, 1:500 @ A3

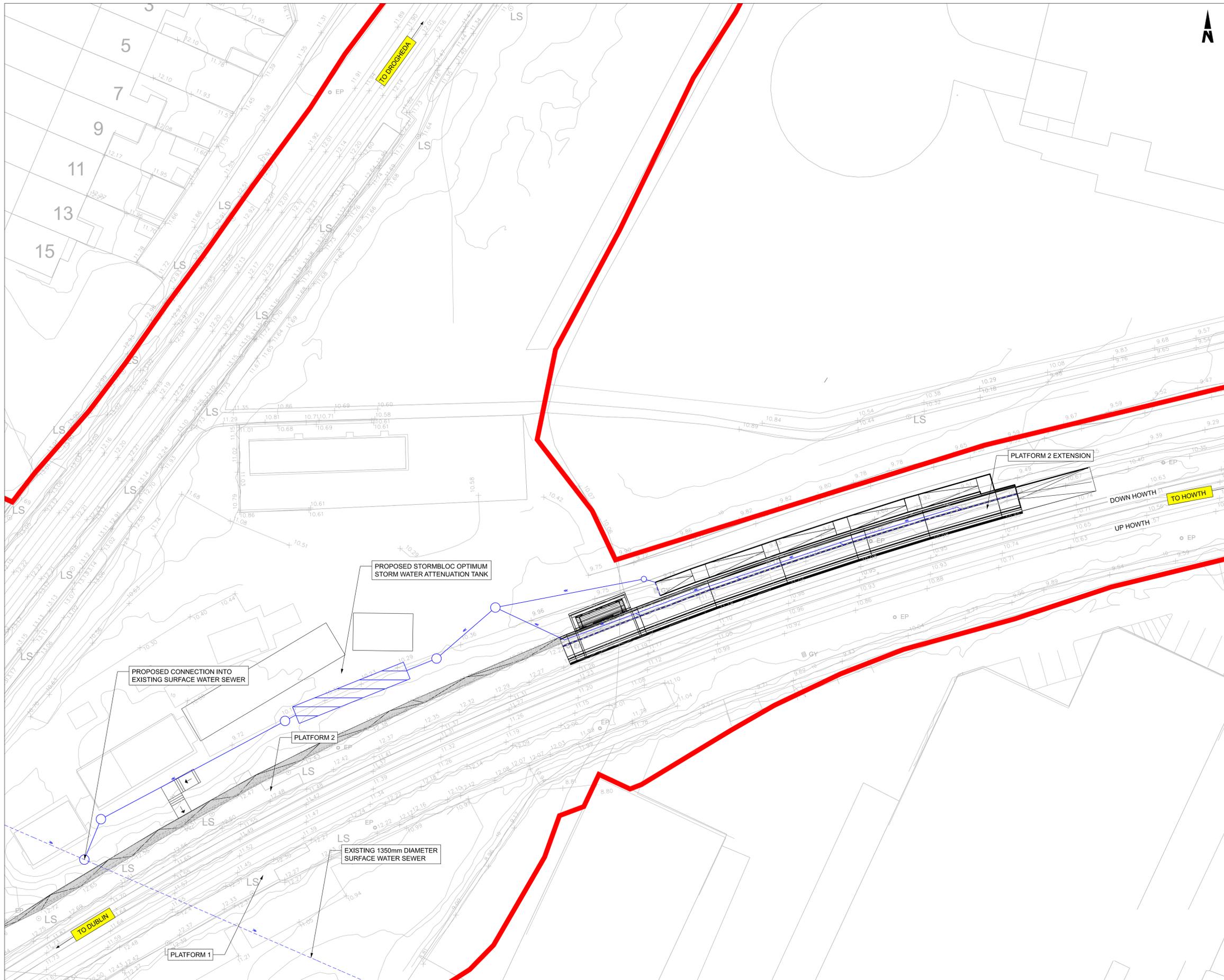
Project Code: D+WP56 | Originator Code: ARP

QMS Code: 280275-00

Drawn: AC | Checked: EJ | Approved: DB

Project Title	DART+ COASTAL NORTH		
Drawing Title	HOWTH JUNCTION TURNBACK PLATFORM FURNITURE LAYOUT		
Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-000215	Sheet Number	01 of 01
Status	S3	Rev	P01

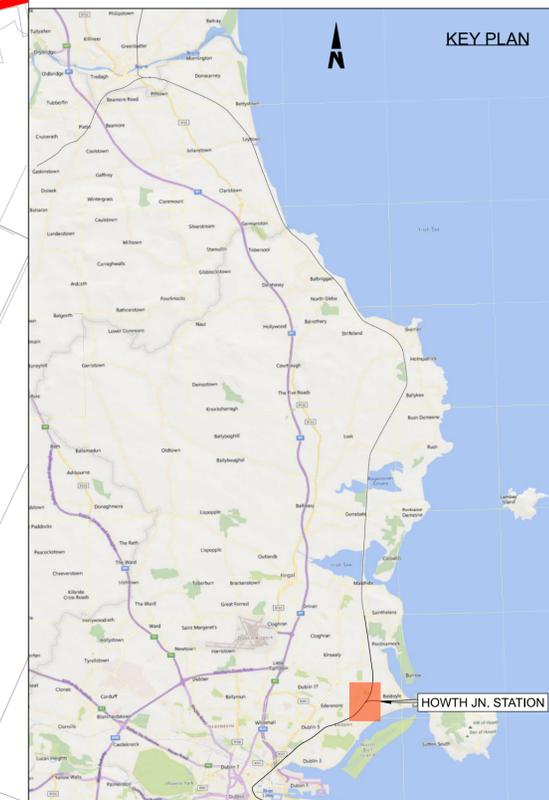
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- LEGEND**
- PROPOSED SURFACE WATER DRAINAGE (ARROWS INDICATE FLOW DIRECTION)
 - LINEAR ACO DRAIN (ARROWS INDICATE FLOW DIRECTION)
 - INSPECTION CHAMBER
 - GULLY
 - DEVELOPMENT BOUNDARY
 - EXISTING SURFACE WATER DRAINAGE

- DESIGN INFORMATION**
1. DESIGN RETURN PERIOD: 1:100yr
 2. CLIMATE CHANGE UPLIFT: 10%



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Rev	Date	Drn	Chk'd	App'd	Description
P01	03/11/2023	MV	EJ	DB	PLANNING ISSUE

Client
Iarnród Éireann
Irish Rail

Engineering Designer
ARUP

Date: 01/06/2023
Scale: 1:250 @ A1
1:500 @ A3

Project Code: D+WP56
Originator Code: ARP

Drawn: AC
Checked: EJ
Approved: DB

QMS Code: 280275-00

Project Title DART+ COASTAL NORTH			
Drawing Title HOWTH JUNCTION TURNBACK PLATFORM DRAINAGE LAYOUT			
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000216	Sheet Number 01 of 01	Status S3	Rev P01

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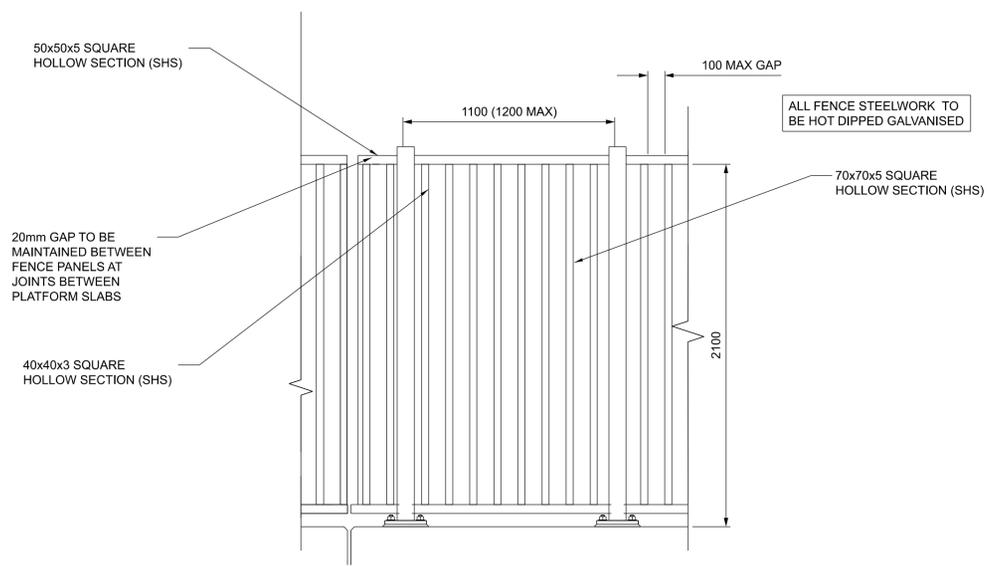


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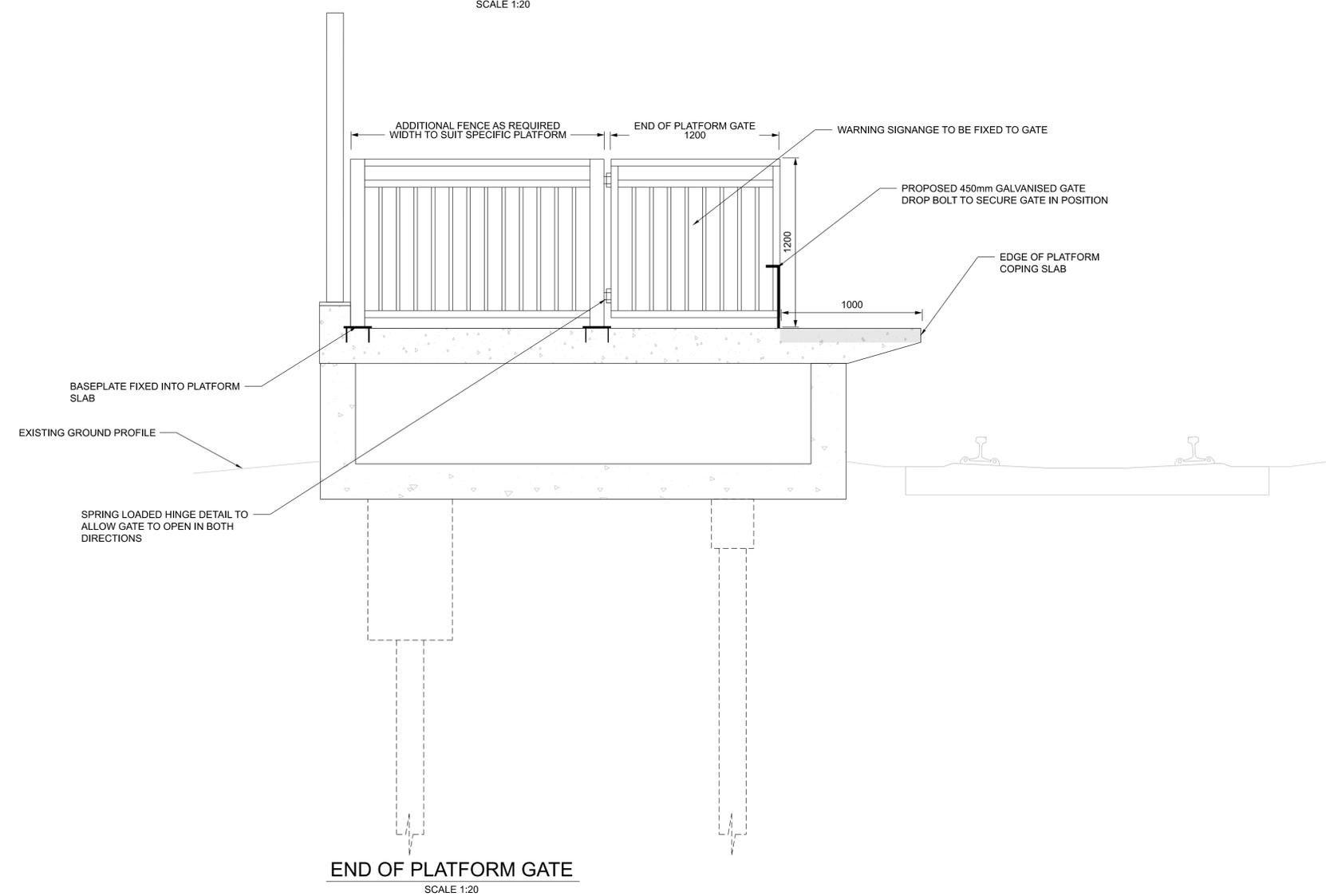
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LEGEND

- PROPOSED ELEMENTS
- EXISTING ELEMENTS



PLATFORM FENCE TYPICAL PANEL
SCALE 1:20



END OF PLATFORM GATE
SCALE 1:20

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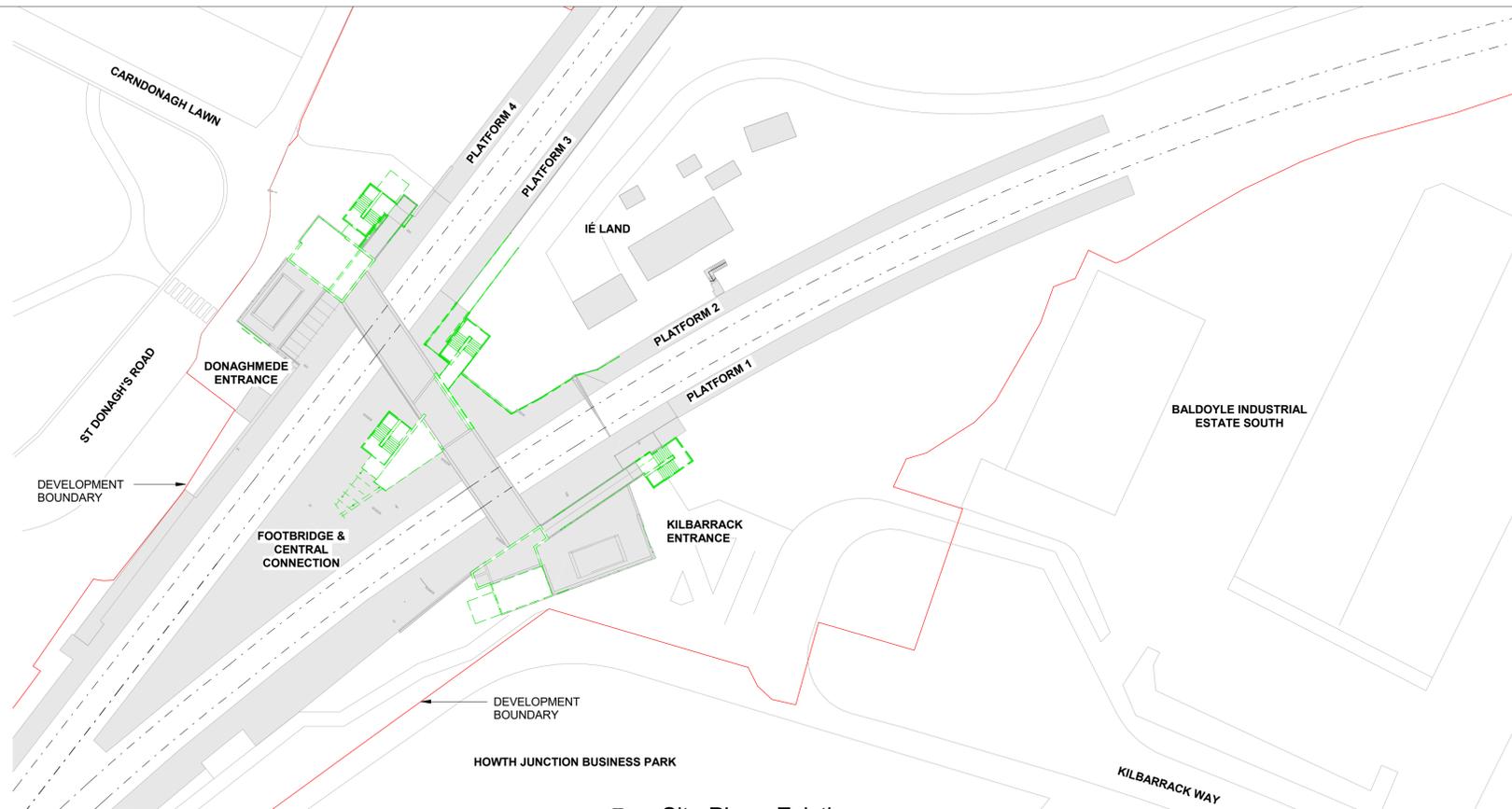
Rev	Date	Dwn	Chk'd	App'd	Description
P01	03/11/2023	MV	EJ	DB	PLANNING ISSUE

Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 01/06/2023	Scale 1:20 @ A1 1:40 @ A3	Drawn AC	Checked EJ	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 280275-00		

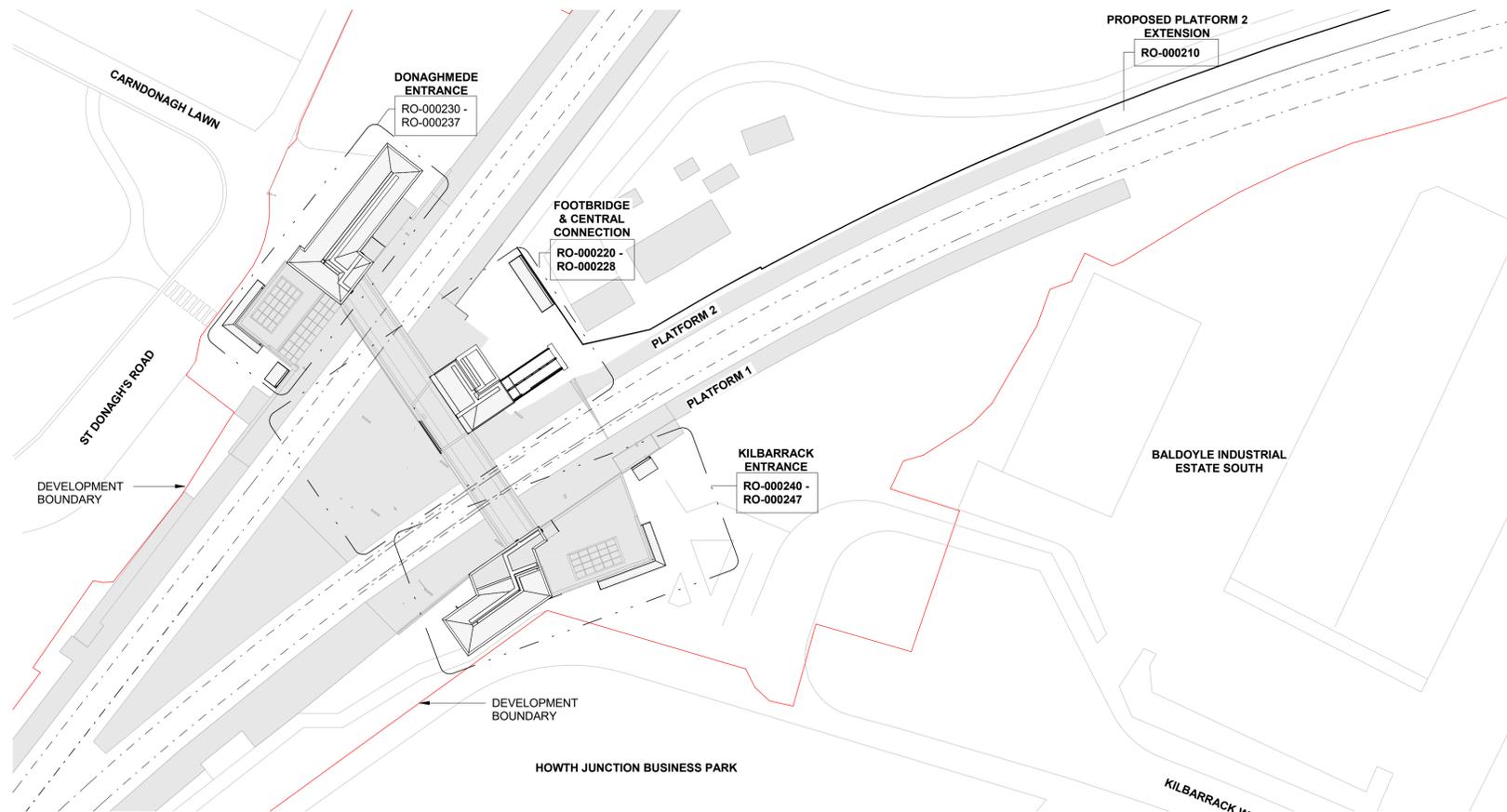
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Drawing Title HOWTH JUNCTION TURNBACK PLATFORM FENCING DETAILS			
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000217	Sheet Number 01 of 01	Status S3	Rev P01

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**HOWTH JUNCTION &
DONAGHMEDE STATION**



1 Site Plan - Existing
1 : 500



2 Site Plan - Proposed
1 : 500



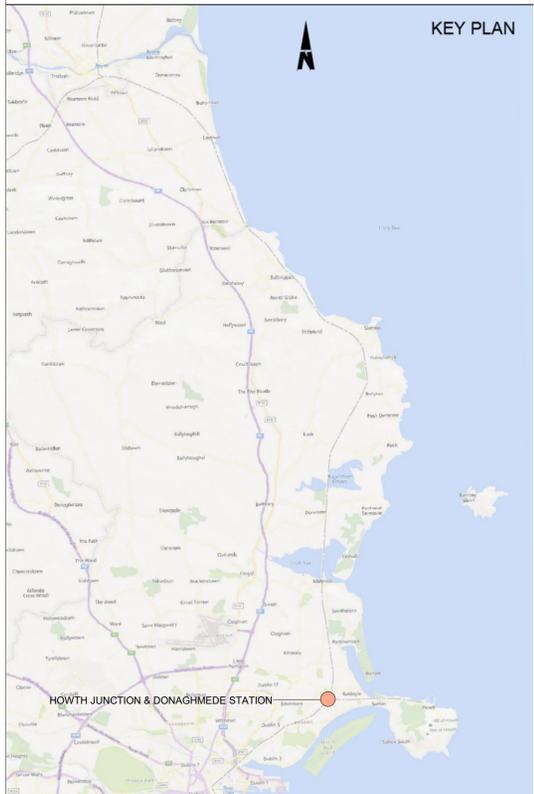
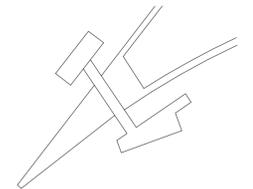
NOTES

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LEGEND

- DEVELOPMENT BOUNDARY
- EXISTING - ELEMENTS TO BE REMOVED
- EXISTING - ELEMENTS TO BE RETAINED
- PROPOSED ELEMENTS

STATION KEY PLAN



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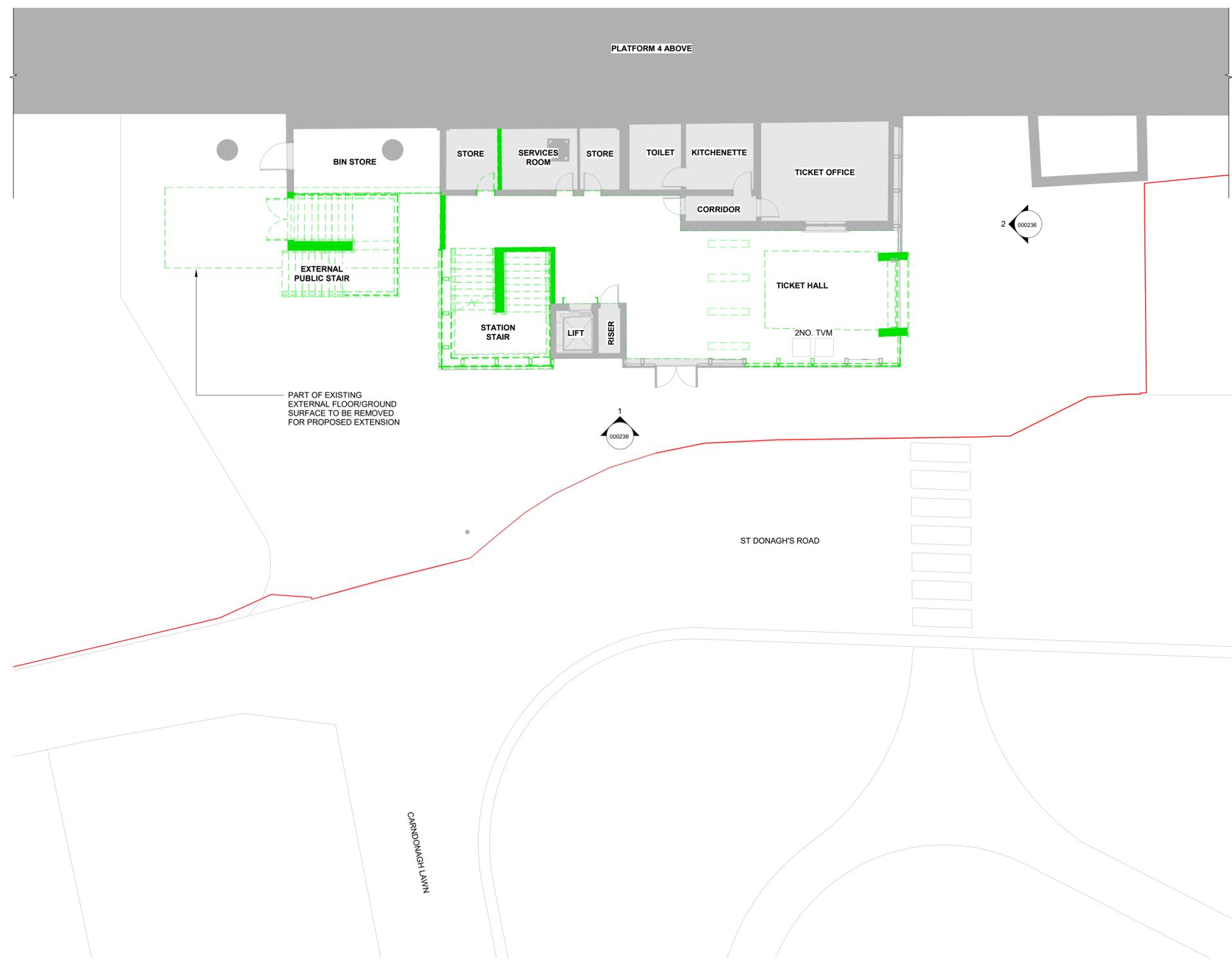
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Date 01/06/2023	Scale 1 : 500 @ A1 1:1000 @ A3	Drawn AH	Checked JW	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 28505150		

Project Title DART+COASTAL NORTH			
Drawing Title HOWTH JUNCTION & DONAGHMEDE STATION SITE PLAN			
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000220	Sheet Number 1 of 1	Status S3	Rev P01

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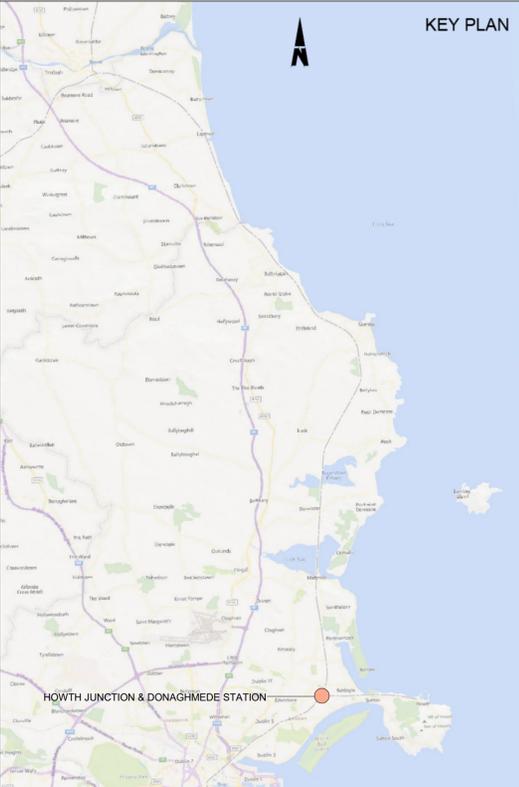
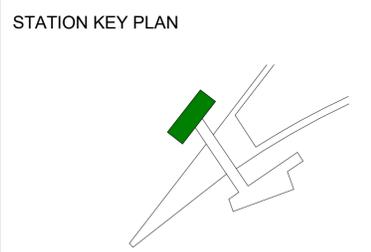
13/10/2023 16:25:52



1 Ticket Hall Level - Existing with Demolition
1 : 100

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- LEGEND**
- DEVELOPMENT BOUNDARY
 - EXISTING - ELEMENTS TO BE REMOVED
 - EXISTING - ELEMENTS TO BE RETAINED
 - PROPOSED ELEMENTS



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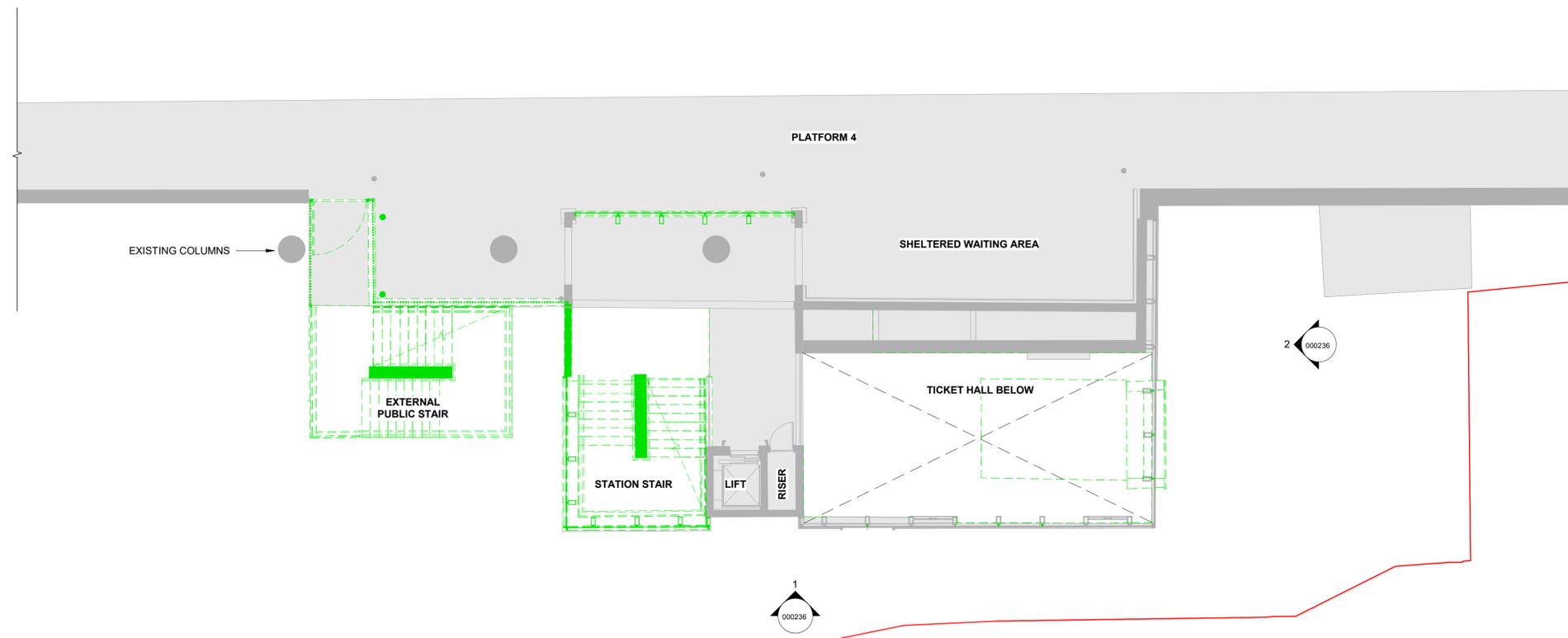
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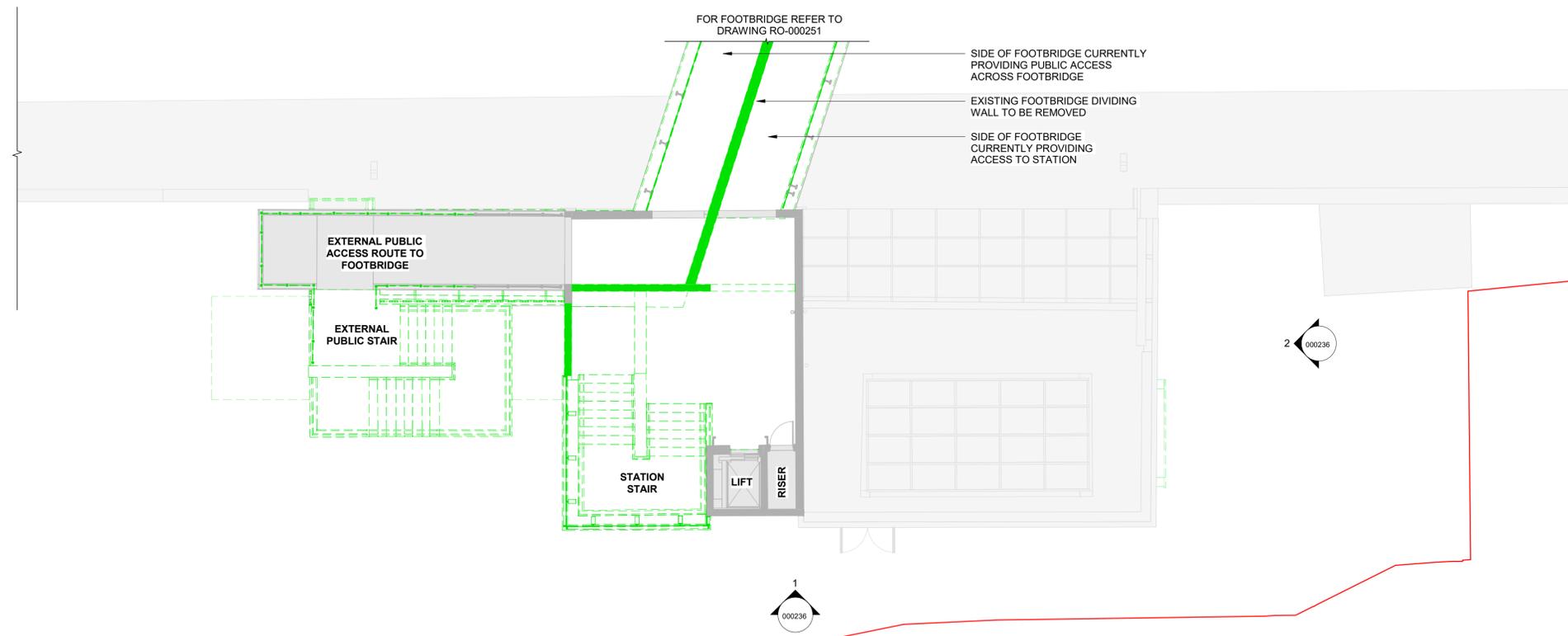
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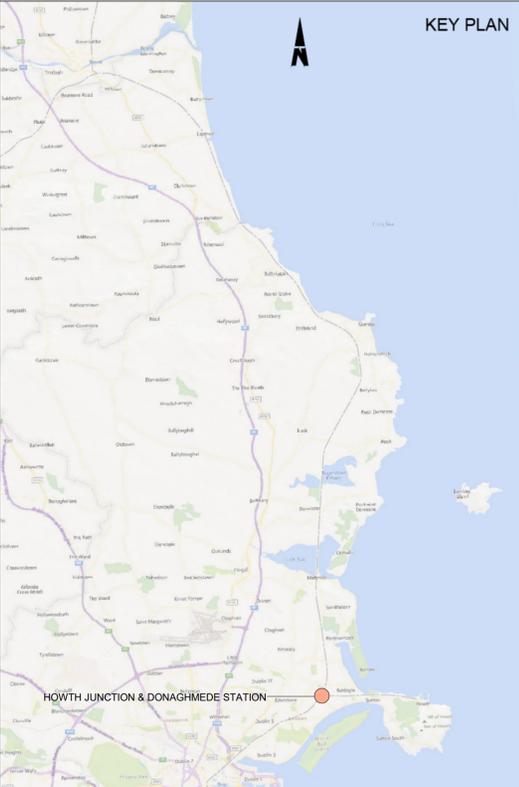
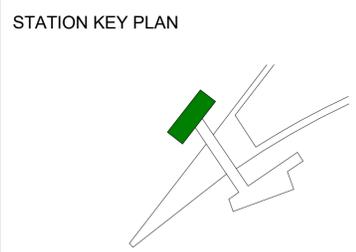


1 Platform Level - Existing with Demolition
 1 : 100



2 Footbridge Level - Existing with Demolition
 1 : 100

- LEGEND**
- DEVELOPMENT BOUNDARY
 - EXISTING - ELEMENTS TO BE REMOVED
 - EXISTING - ELEMENTS TO BE RETAINED
 - PROPOSED ELEMENTS



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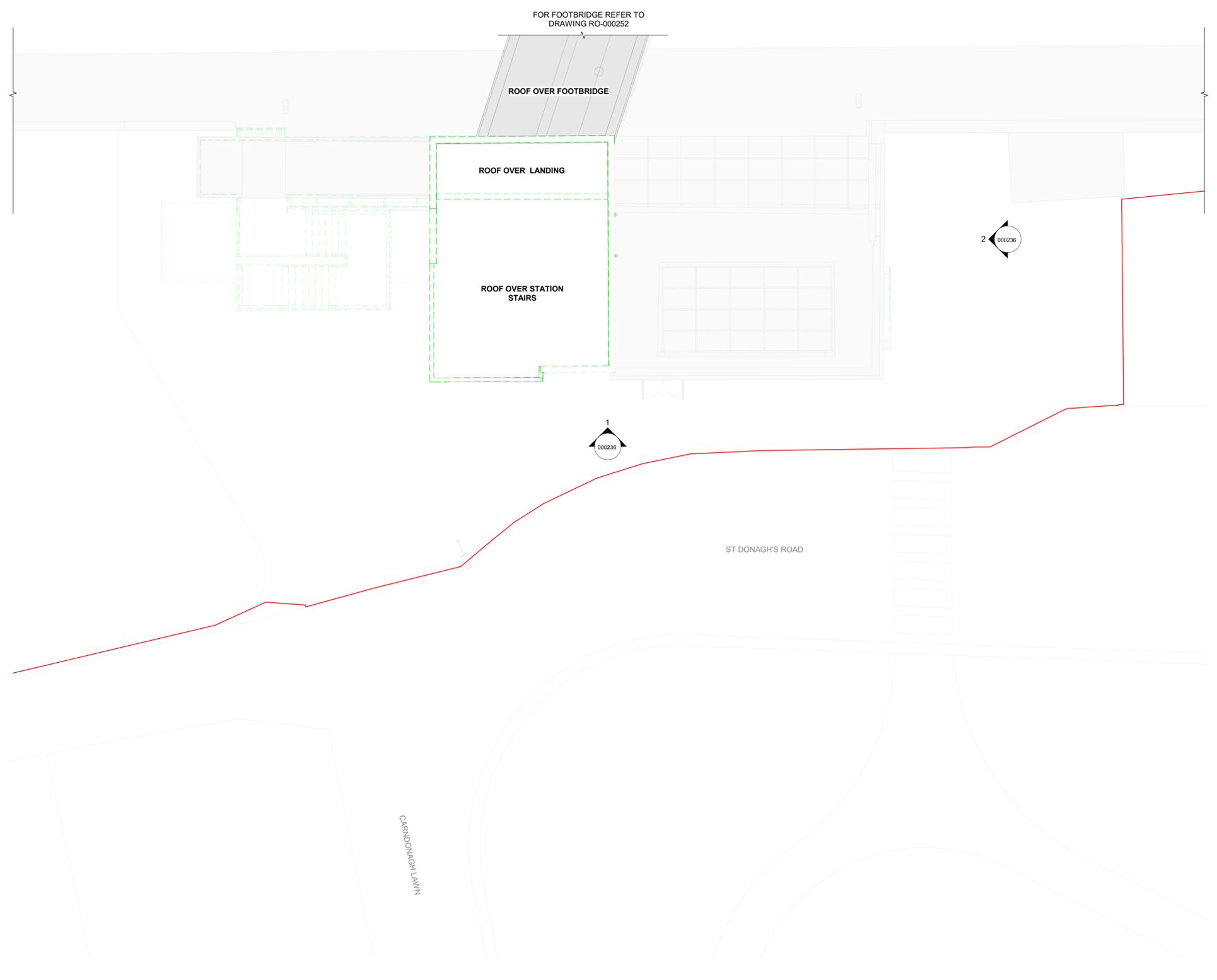
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Date 01/06/2023	Scale 1 : 100 @ A1 1 : 200 @ A3	Drawn AH	Checked JW	Approved DB
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13/10/2023 16:26:07



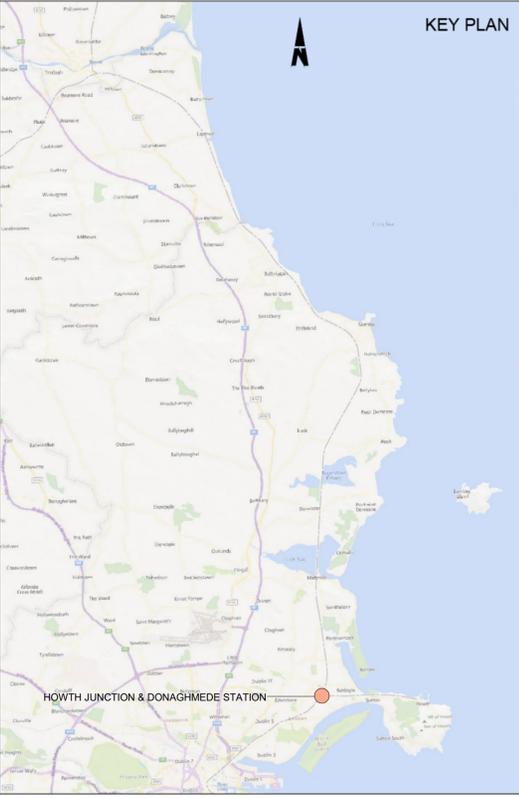
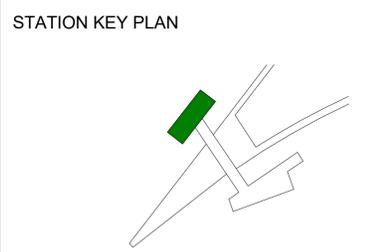
1 Roof Level - Existing with Demolition
1:100



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LEGEND

	DEVELOPMENT BOUNDARY
	EXISTING - ELEMENTS TO BE REMOVED
	EXISTING - ELEMENTS TO BE RETAINED
	PROPOSED ELEMENTS



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Rev	Date	Drn	Chk'd	App'd	Description
P01	13/10/2023	AH	JW	DB	PLANNING ISSUE

Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 01/06/2023	Scale 1:100 @ A1 1:200 @ A3	Drawn AH	Checked JW	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 28505150		

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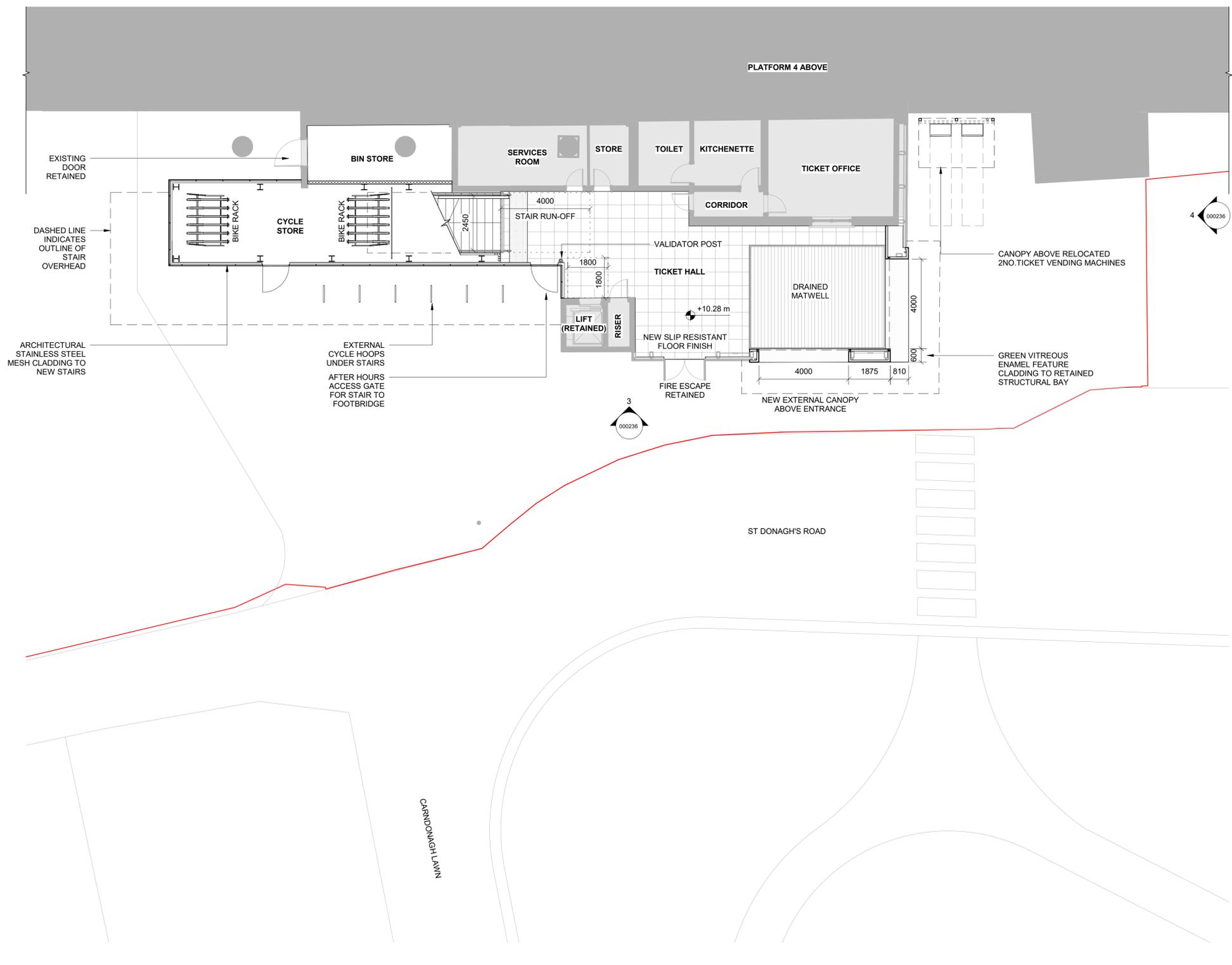
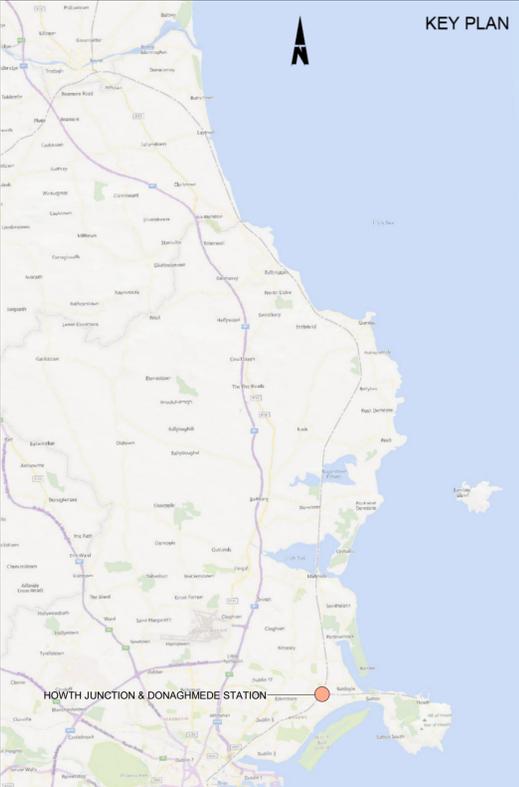
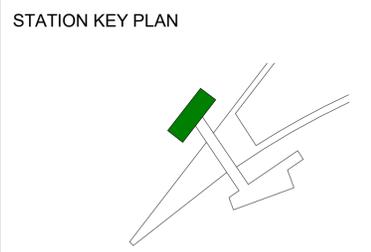
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LEGEND

- DEVELOPMENT BOUNDARY
- EXISTING - ELEMENTS TO BE REMOVED
- EXISTING - ELEMENTS TO BE RETAINED
- PROPOSED ELEMENTS



1 Ticket Hall Level - Proposed
 1: 100

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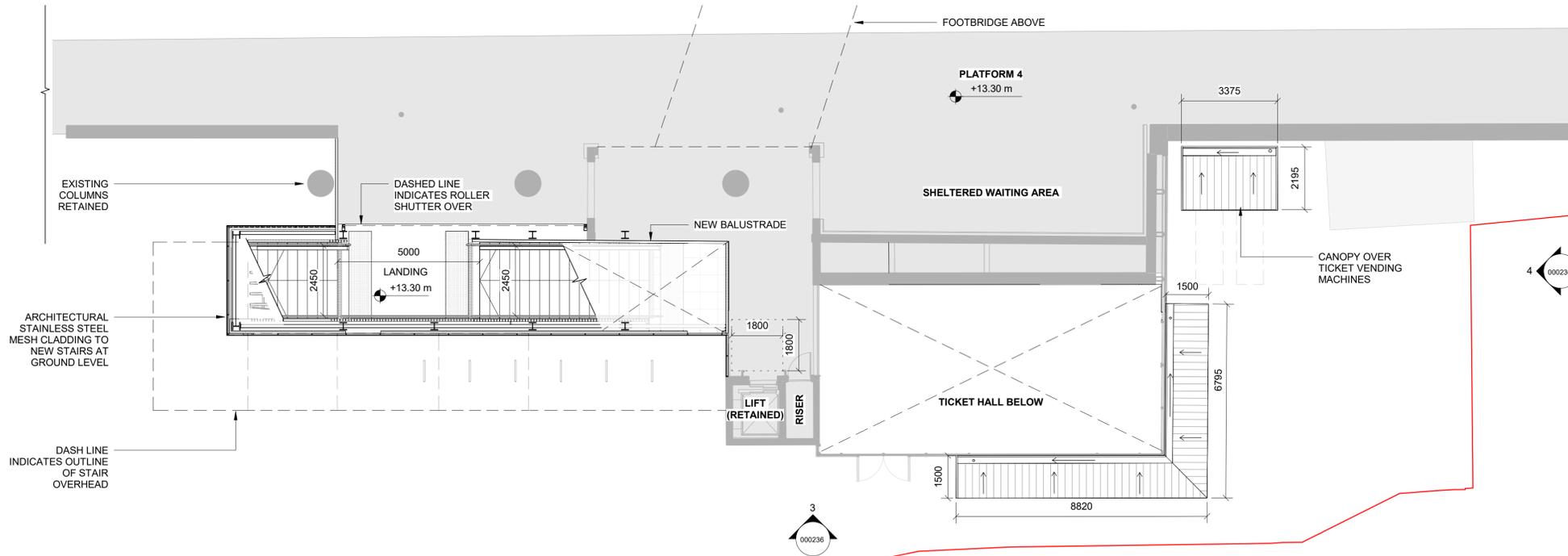
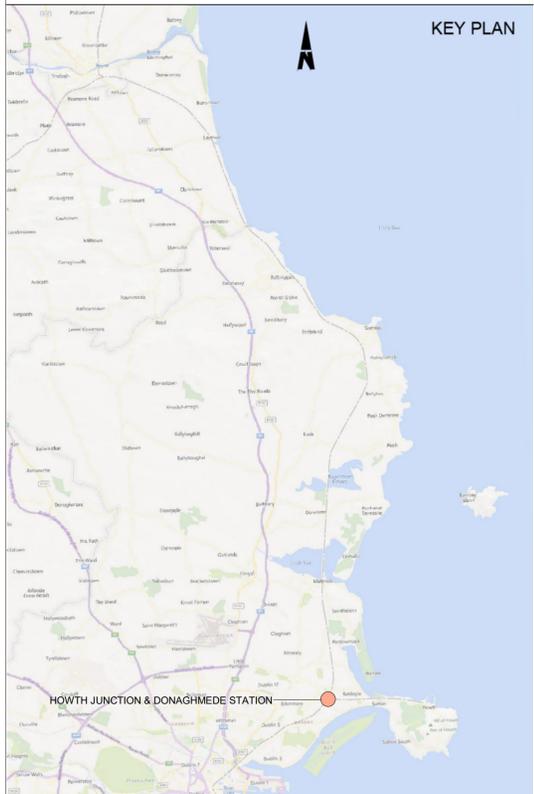
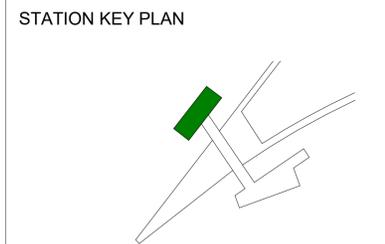
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Date 01/06/2023	Scale 1: 100 @ A1 1: 200 @ A3	Drawn AH	Checked JW	Approved DB
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Project Title DART+COASTAL NORTH				
Drawing Title HOWTH JUNCTION & DONAGHMEADE STATION DONAGHMEADE ENTRANCE TICKET HALL LEVEL PLAN PROPOSED				
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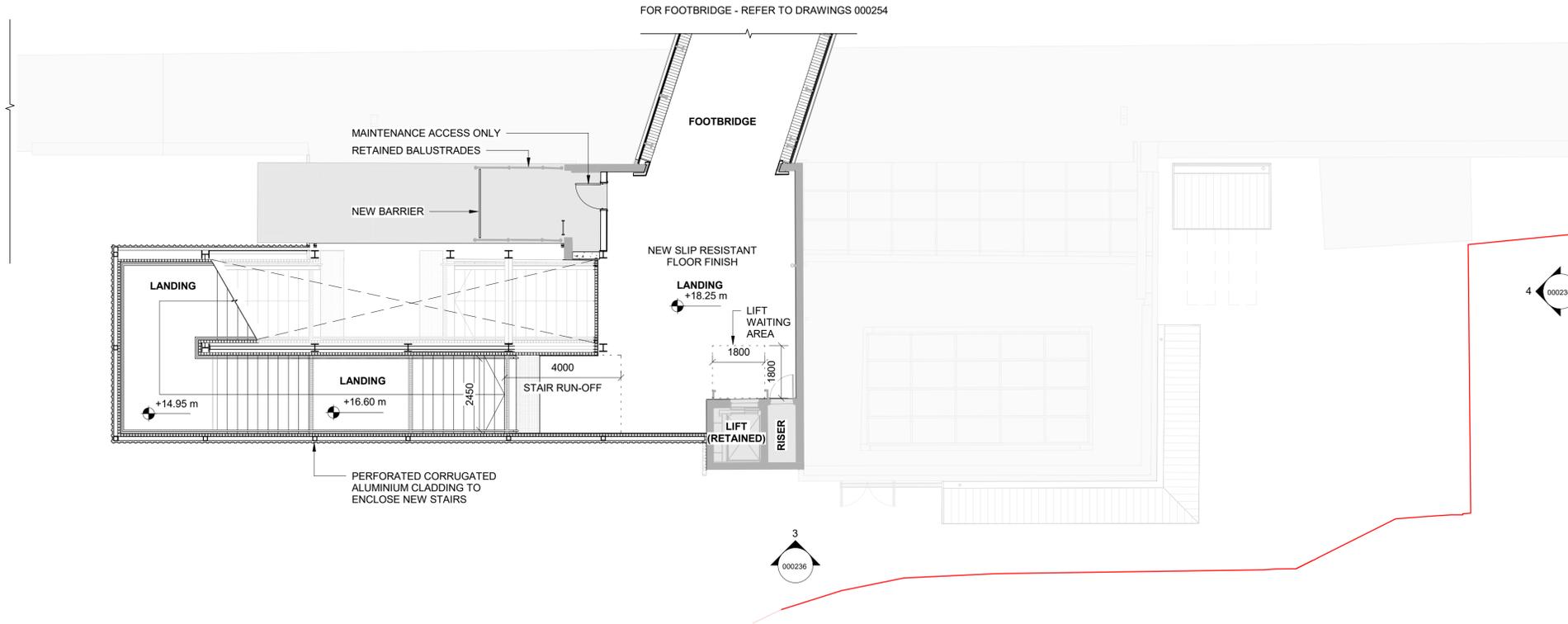
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LEGEND
— DEVELOPMENT BOUNDARY
--- EXISTING - ELEMENTS TO BE REMOVED
■ EXISTING - ELEMENTS TO BE RETAINED
□ PROPOSED ELEMENTS



1 Platform Level - Proposed
1 : 100



2 Footbridge Level - Proposed
1 : 100

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Rev	Date	Drn	Chk'd	App'd	Description
P01	13/10/2023	AH	JW	DB	PLANNING ISSUE

Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 01/06/2023	Scale 1 : 100 @ A1 1 : 200 @ A3	Drawn AH	Checked JW	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 28505150		

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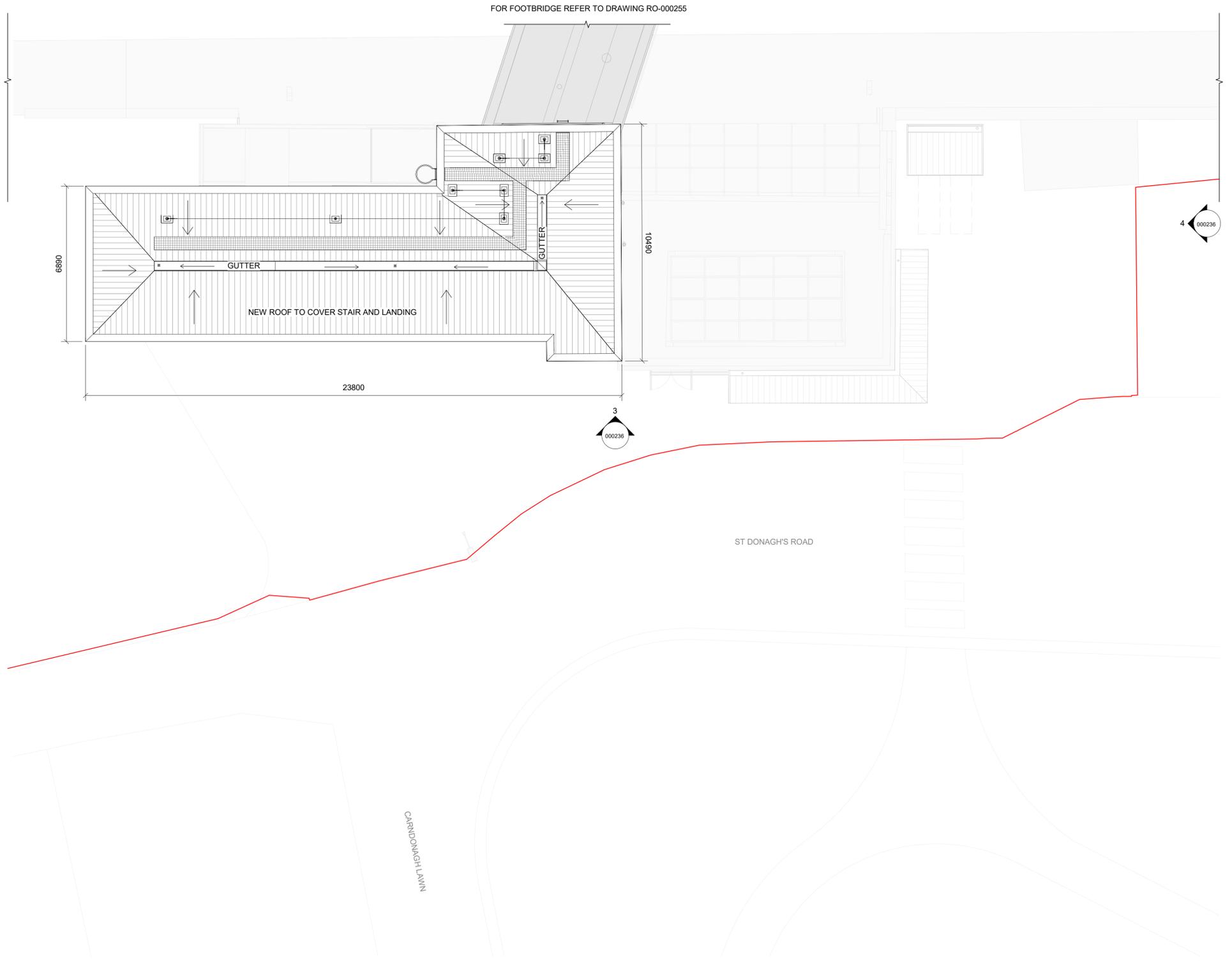
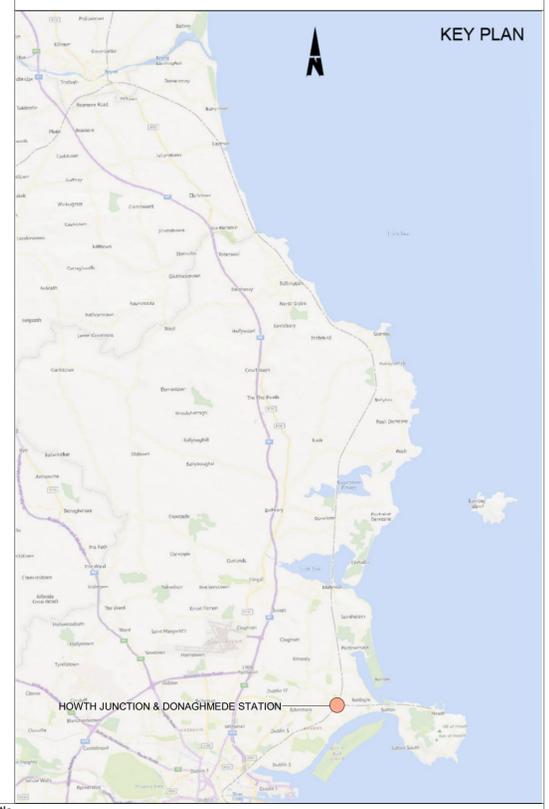
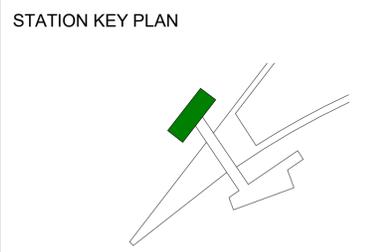
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LEGEND

- DEVELOPMENT BOUNDARY
- EXISTING - ELEMENTS TO BE REMOVED
- EXISTING - ELEMENTS TO BE RETAINED
- PROPOSED ELEMENTS



1 Roof Level - Proposed
 1 : 100

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Rev	Date	Drn	Chk'd	App'd	Description
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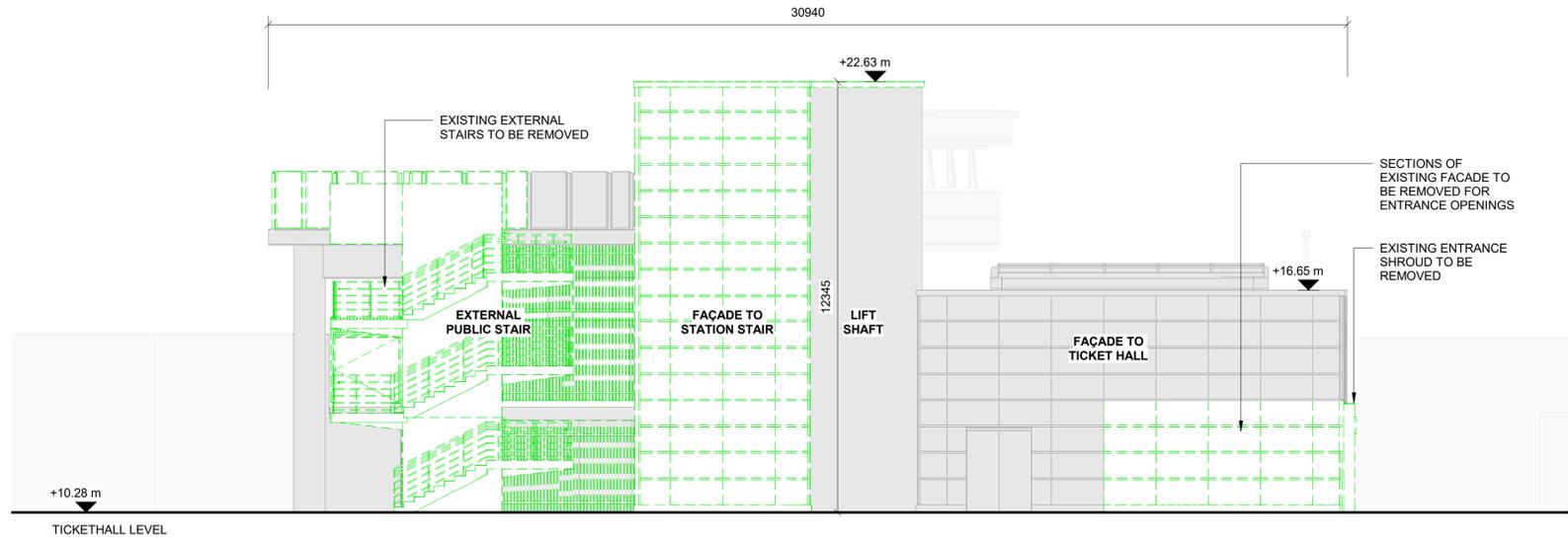
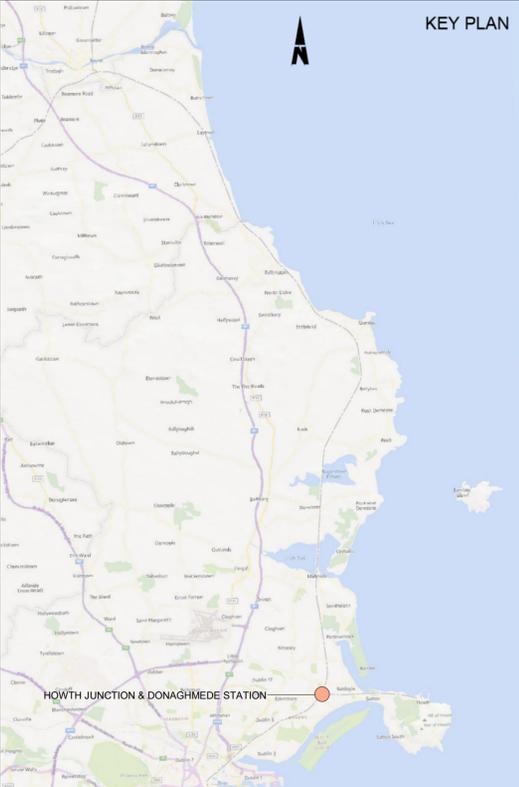
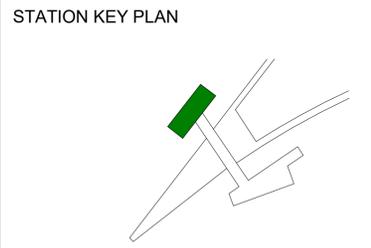
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Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000235	Sheet Number 1 of 1	Status S3	Rev P01	

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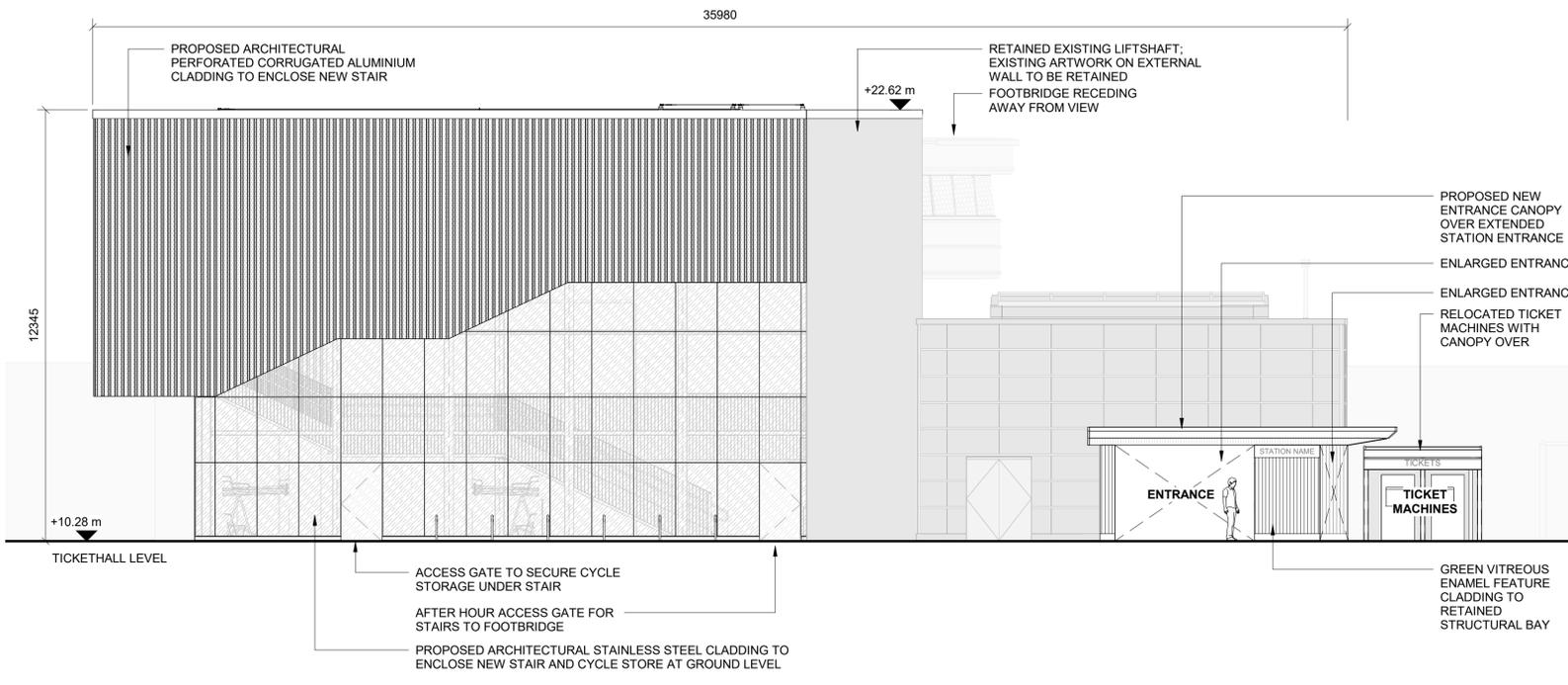
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- - - EXISTING - ELEMENTS TO BE REMOVED
█ EXISTING - ELEMENTS TO BE RETAINED
□ PROPOSED ELEMENTS



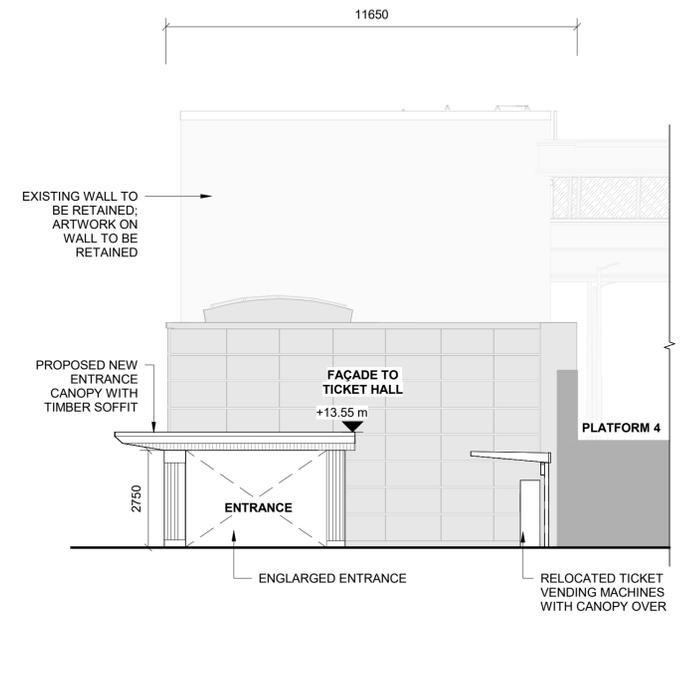
1 Front Elevation - Existing
1:100



2 Side Elevation - Existing
1:100



3 Front Elevation - Proposed
1:100



4 Side Elevation - Proposed
1:100

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Rev	Date	Drn	Chk'd	App'd	Description
P01	13/10/2023	AH	JW	DB	PLANNING ISSUE

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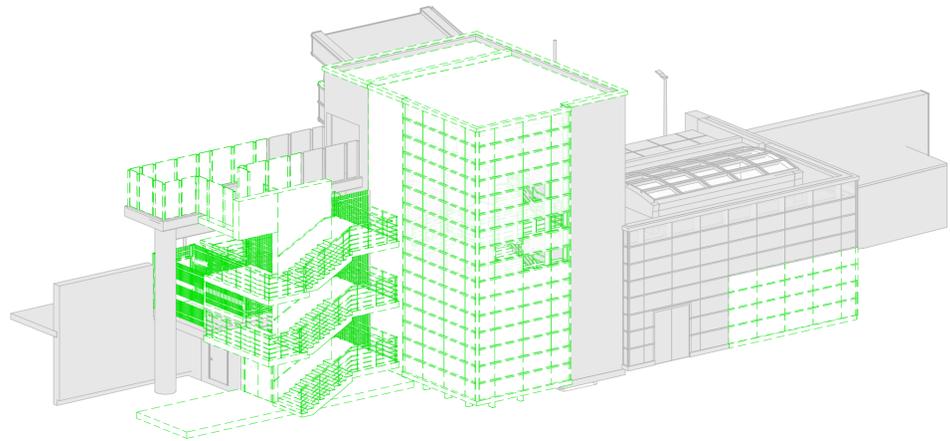
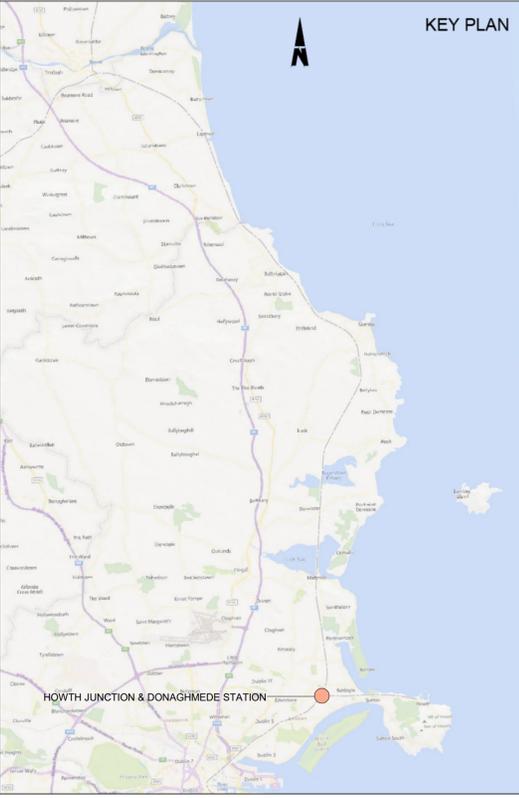
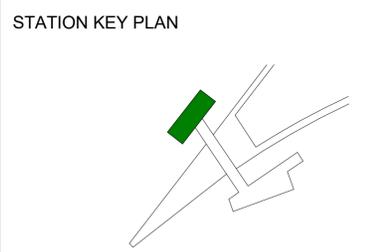
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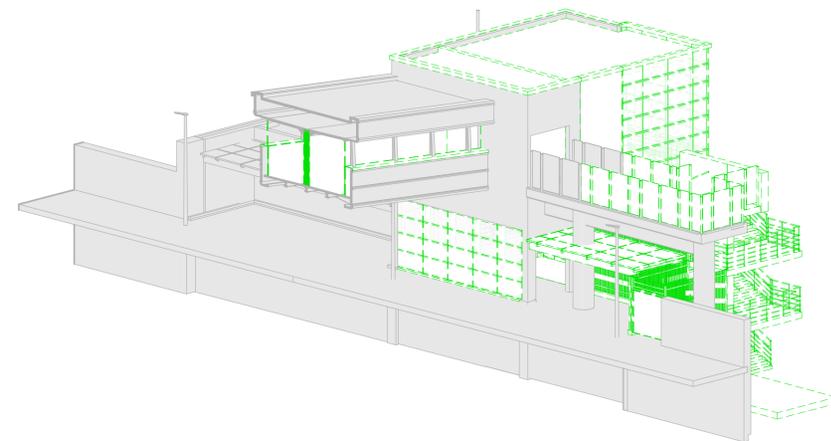
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LEGEND

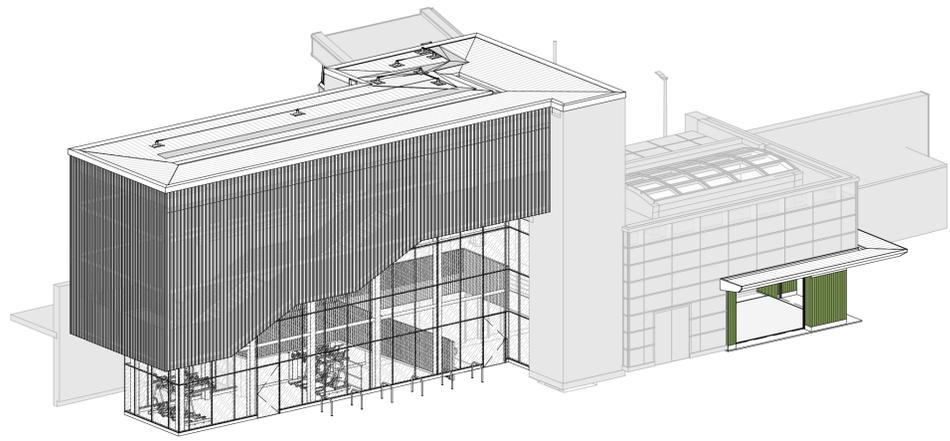
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- - - EXISTING - ELEMENTS TO BE REMOVED
- EXISTING - ELEMENTS TO BE RETAINED
- PROPOSED ELEMENTS



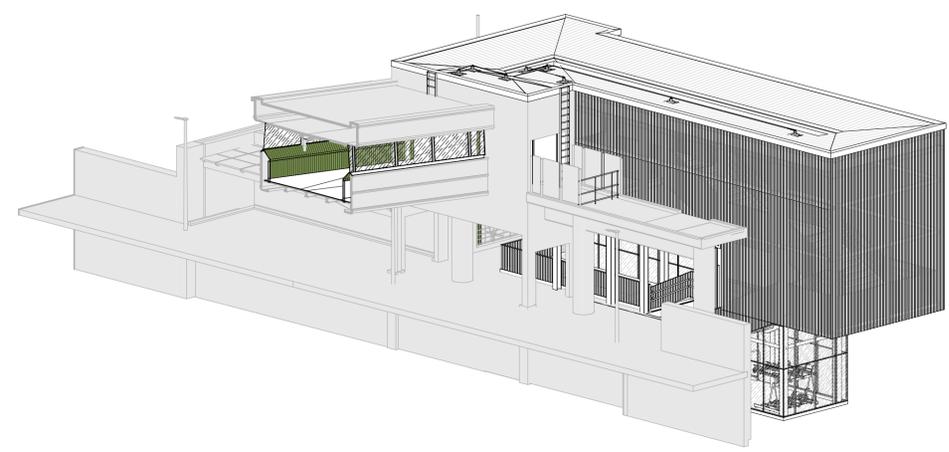
1 View from External Side - Existing with Demolition



2 View from Platform Side - Existing with Demolition



3 View from External Side - Proposed



4 View from Platform Side - Proposed

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Rev	Date	Drn	Chk'd	App'd	Description
P01	13/10/2023	AH	JW	DB	PLANNING ISSUE

Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 01/06/2023	Scale NTS @ A1 NTS @ A3	Drawn AH	Checked JW	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 28505150		

Project Title DART+COASTAL NORTH			
Drawing Title HOWTH JUNCTION & DONAGHMEDE STATION DONAGHMEDE ENTRANCE 3D VIEWS			
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000237	Sheet Number 1 of 1	Status S3	Rev P01

DO NOT SCALE USE FIGURED DIMENSION ONLY



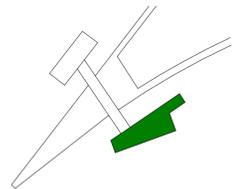
NOTES

- 1. DO NOT SCALE FROM DRAWING.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.

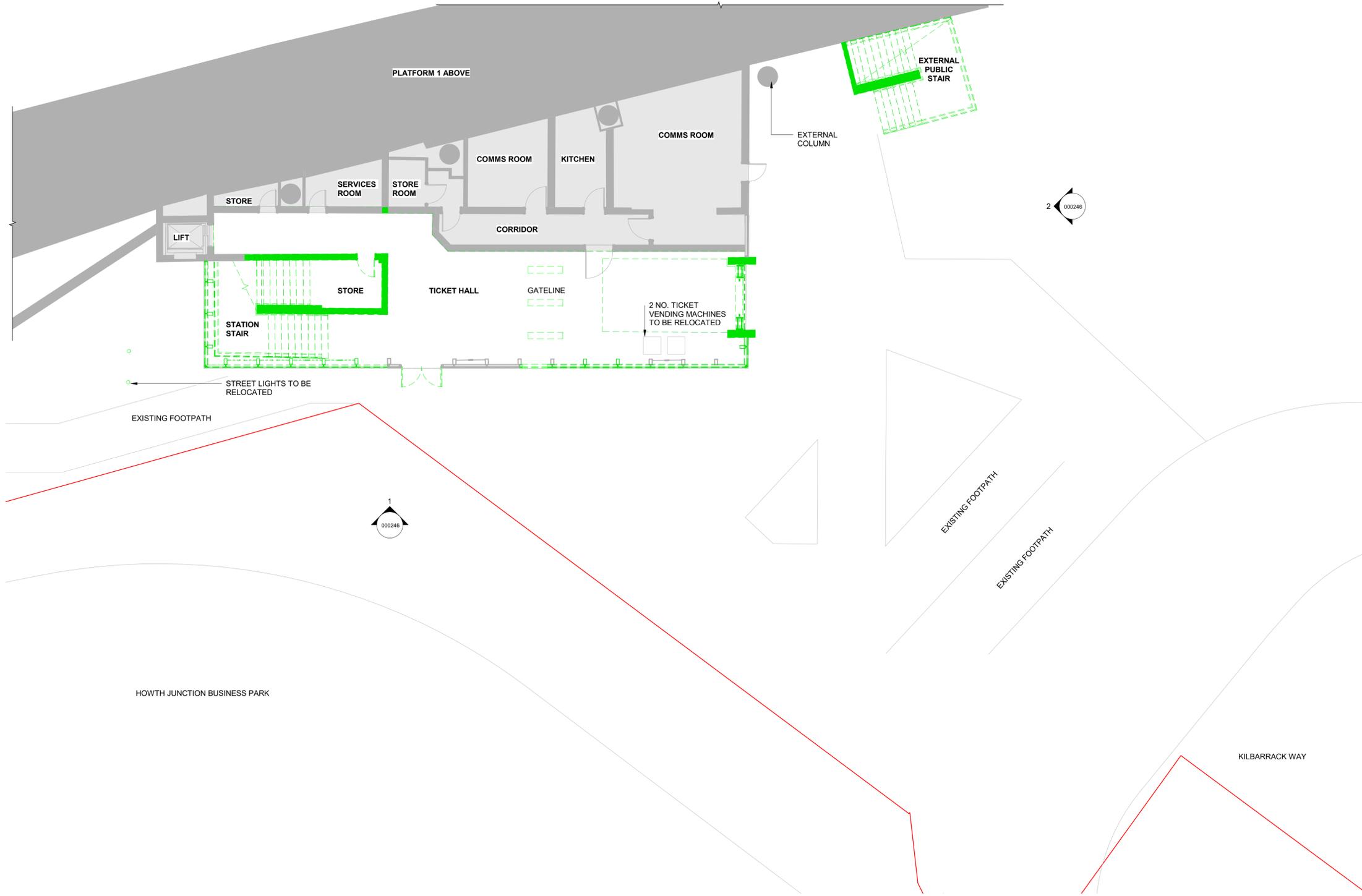
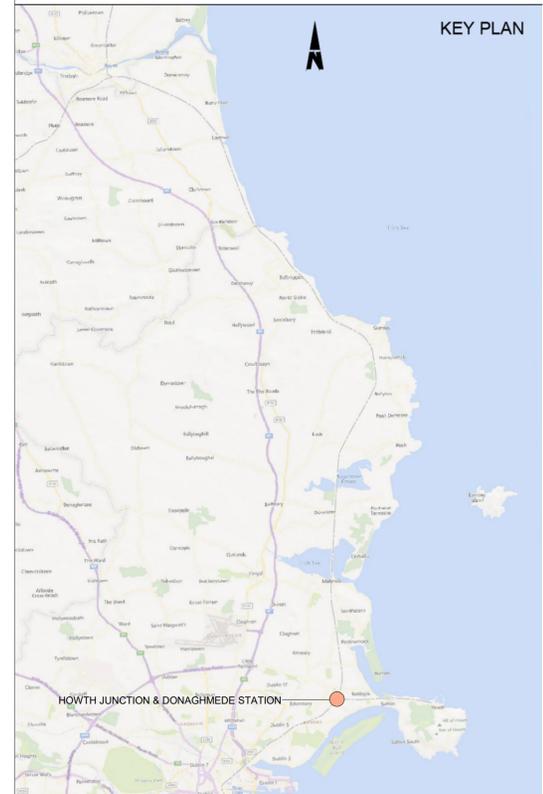
LEGEND

- DEVELOPMENT BOUNDARY
- EXISTING - ELEMENTS TO BE REMOVED
- EXISTING - ELEMENTS TO BE RETAINED
- PROPOSED ELEMENTS

STATION KEY PLAN



KEY PLAN



1 Ticket Hall Level - Existing with Demolition
1 : 100

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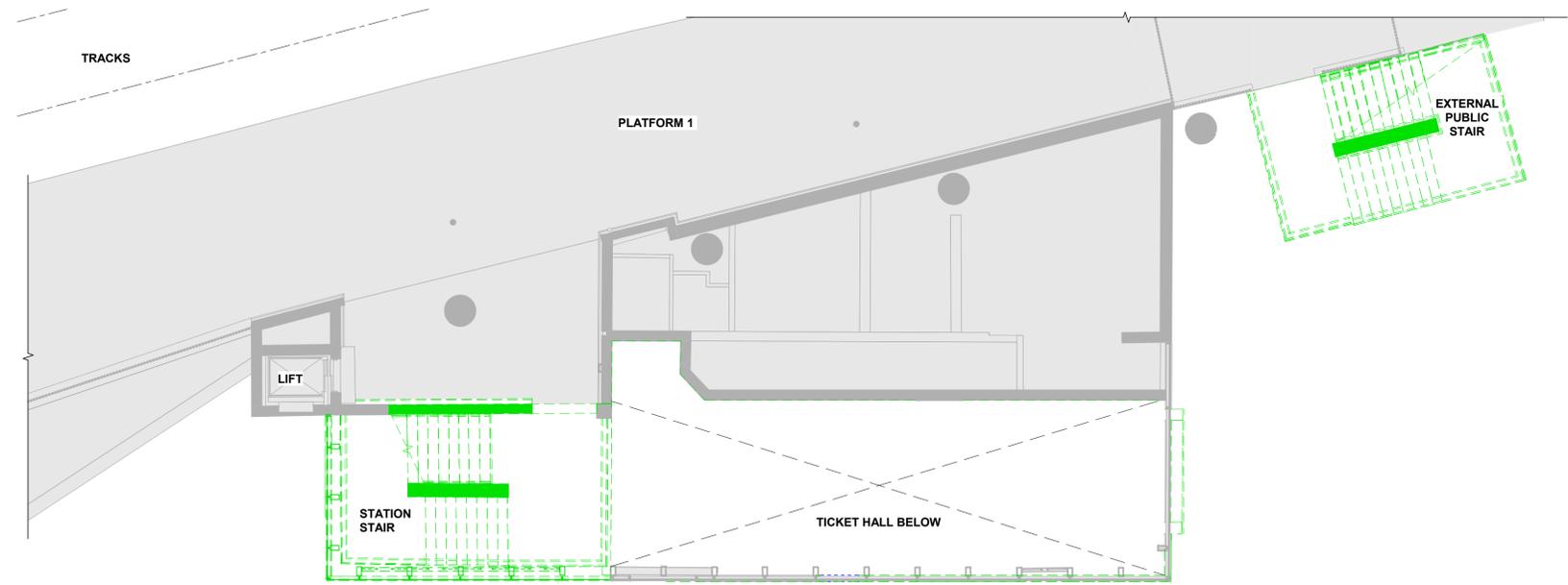


Rev	Date	Drn	Chk'd	App'd	Description
P01	08/12/2023	AH	JW	DB	PLANNING ISSUE

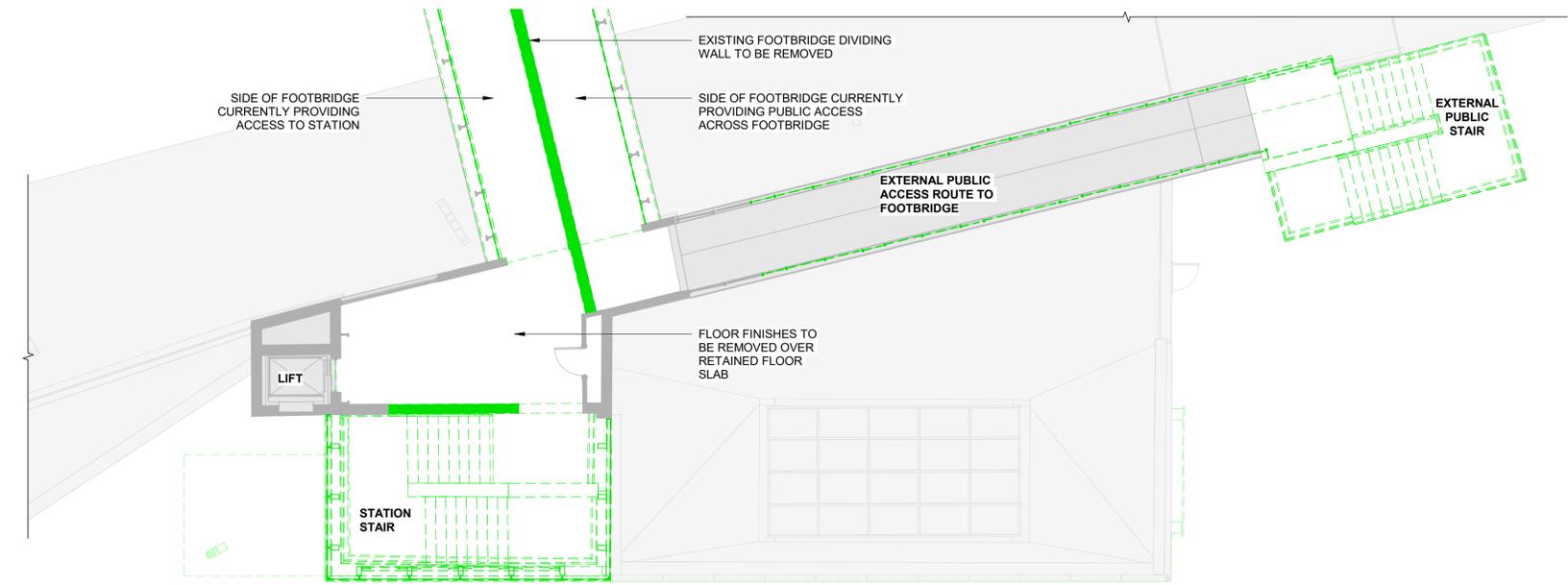
Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 01/06/2023	Scale 1 : 100 @ A1 1 : 200 @ A3	Drawn AH	Checked JW	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 28505150		

Project Title DART+COASTAL NORTH				
Drawing Title HOWTH JUNCTION & DONAGHMEDE STATION KILBARRACK ENTRANCE TICKET HALL LEVEL EXISTING				
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000240	Sheet Number 1 of 1	Status S3	Rev P01	

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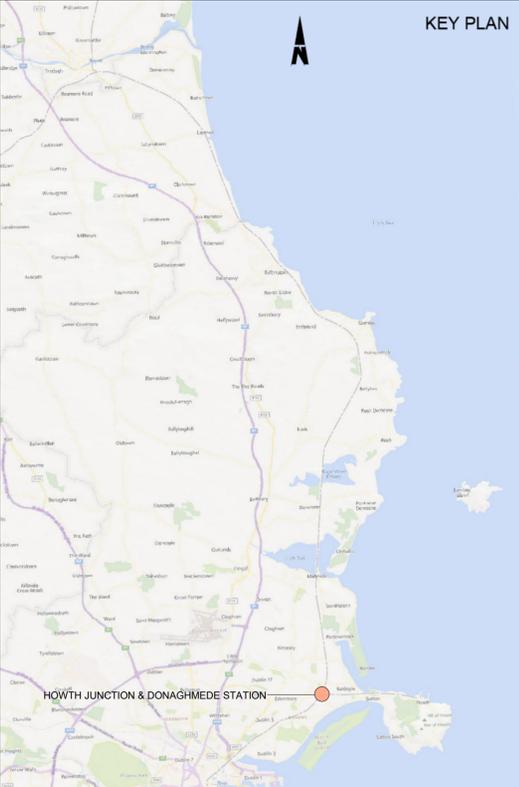
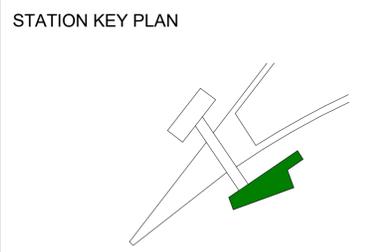
1 Platform Level - Existing with Demolition
1:100



2 Footbridge Level - Existing with Demolition
1:100

NOTES
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- LEGEND**
- DEVELOPMENT BOUNDARY
 - EXISTING - ELEMENTS TO BE REMOVED
 - EXISTING - ELEMENTS TO BE RETAINED
 - PROPOSED ELEMENTS



Autodesk Docs://279933-00 SMO DART Expansion Coastal Line/HU&D-ARUP-ZZ-ZZ-M3-A-0001.rvt

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Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 01/06/2023	Scale 1:100 @ A1 1:200 @ A3	Drawn AH	Checked JW	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 28505150		

Project Title DART+COASTAL NORTH				
Drawing Title HOWTH JUNCTION & DONAGHMEDE STATION KILBARRACK ENTRANCE PLATFORM LEVEL & FOOTBRIDGE LEVEL PLAN EXISTING				
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000241	Sheet Number 1 of 1	Status S3	Rev P01	

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