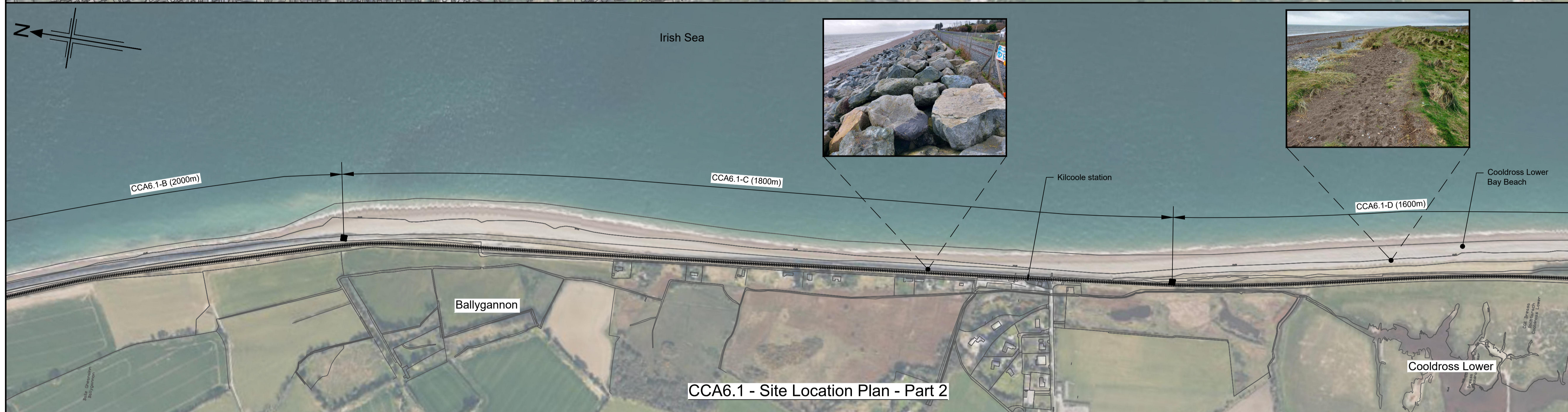


CCA6.1 - Site Location Plan - Part 1



CCA6.1 - Site Location Plan - Part 2



CCA6.1 - Site Location Plan - Part 3



NOTES

- All levels are in mODM.
- Do not scale from this drawing.

LEGEND

————— Railway line

Sub-Cell	Sub-cell Name	Length (m)
CCA6.1-A	Greystones	1000
CCA6.1-B	Cobblers Bulk	2000
CCA6.1-C	Kilcoole	1800
CCA6.1-D	Cooldross	1600
CCA6.1-E	North Newcastle	2300

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	24.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	30.11.2023	Draft Issue For Information	PC	JG	JUD	DK

Client: **lanród Éireann Irish Rail**

Designer: **Jacobs**  
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C3, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CONCEPT DESIGN CCA 6.1 SITE LOCATION PLAN**

Drawing status: **Accepted**

State Code: Contract / Work Package 6.1  
 Project Stage: Project Concept, Feasibility & Option Selection  
 Scale: 1:5000 DO NOT SCALE  
 Jacobs No. D3658300 Rev V01  
 Client no. 7694  
 Drawing number: 7694- CCA6\_1 -P2 -  
 Type DWG - CV - JAC - Number - 0001

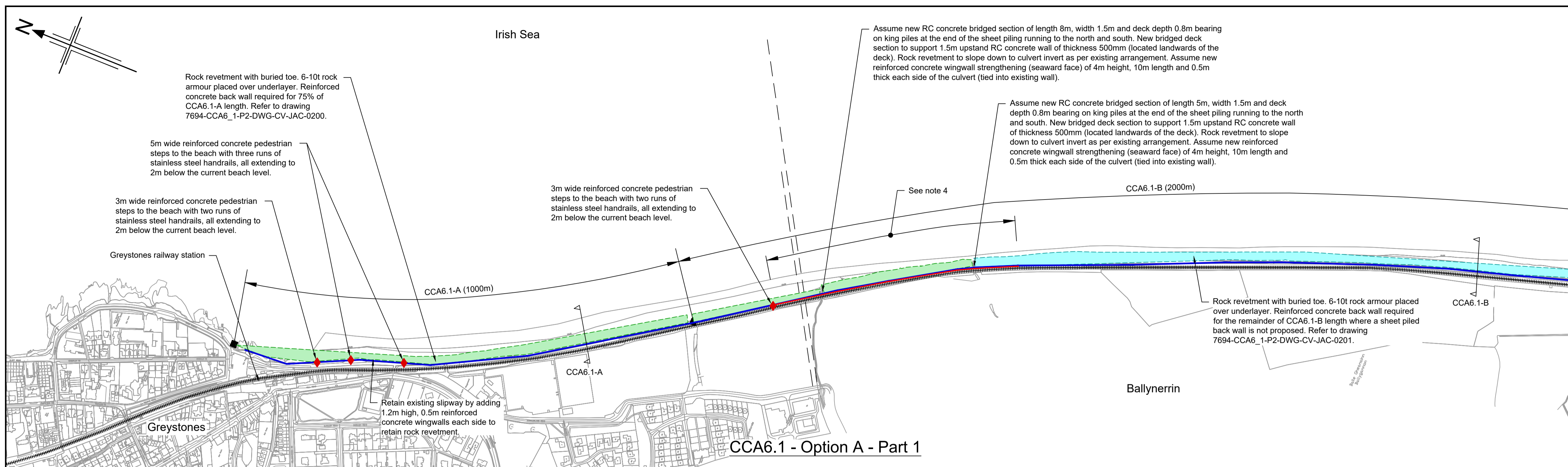


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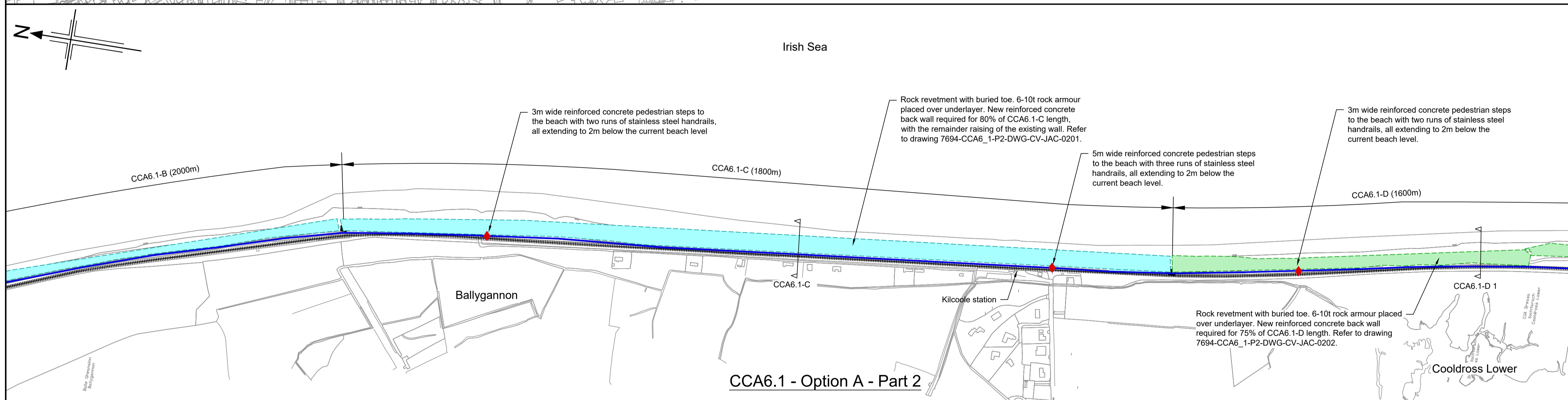
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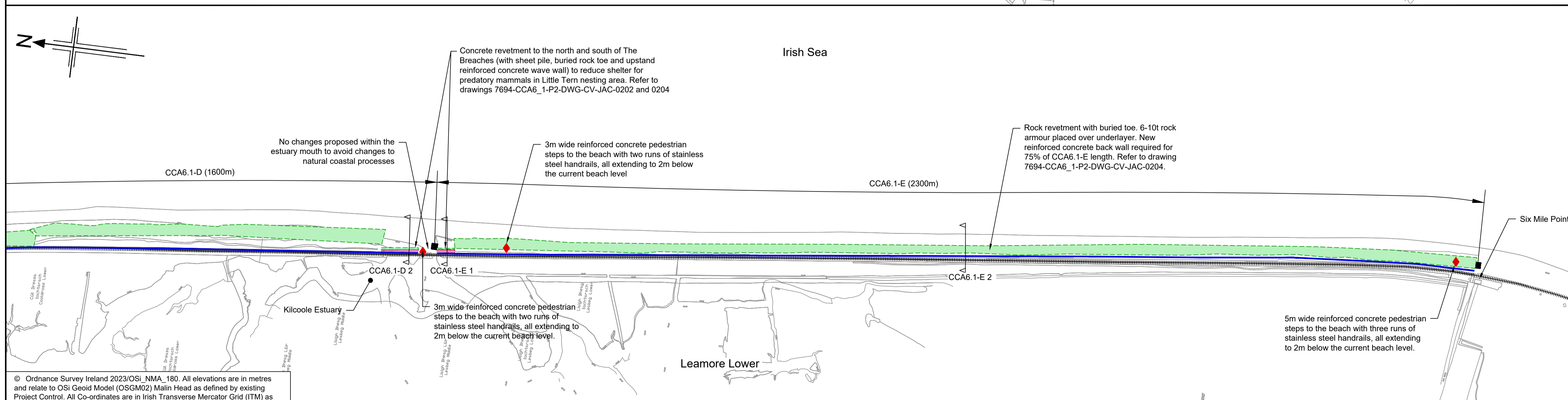




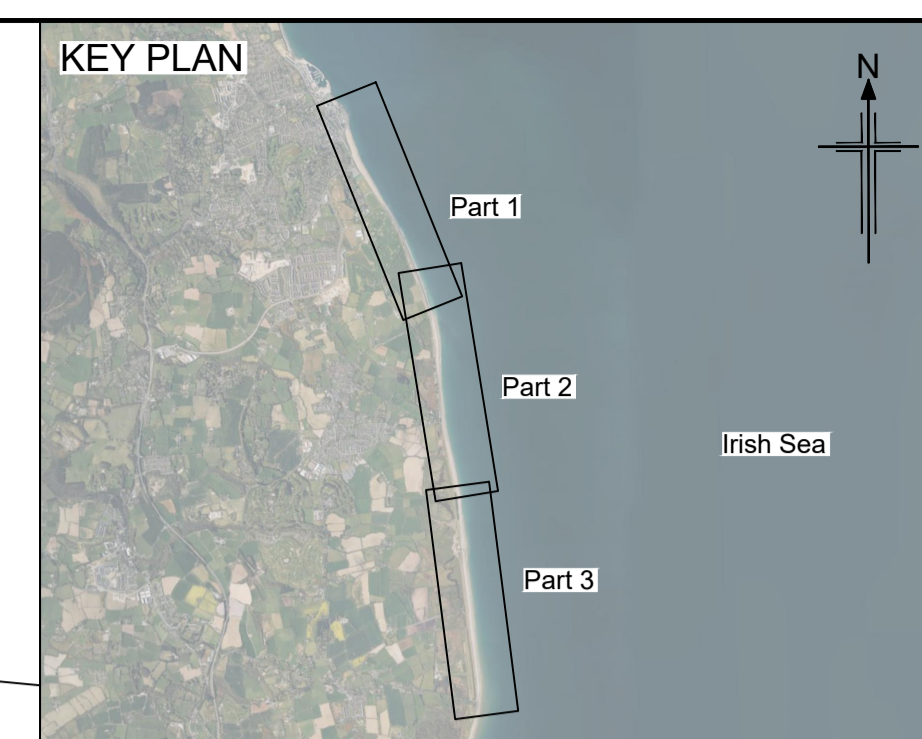
CCA6.1 - Option A - Part 1



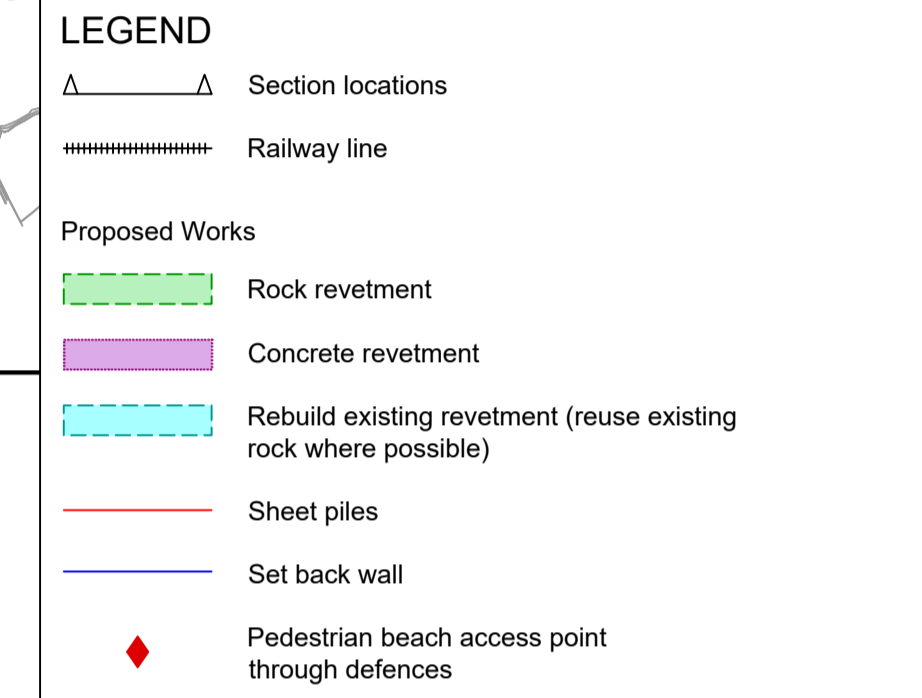
CCA6.1 - Option A - Part 2



CCA6.1 - Option A - Part 3



- NOTES**
- All levels are in mODM.
  - Do not scale from this drawing.
  - Size and location of all structures is indicative only and to be determined through design development.
  - 530m length where steel sheet piling (10m pile length) required landward of railway fence line to create upstand reinforced concrete flood wall 1.5m high and 0.5m width. Refer to Detail 1 drawing 7694-CCA6\_1-P2-DWG-CV-JAC-0201.



V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	24.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	30.11.2023	Draft Issue For Information	PC	JG	JUD	DK
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Client: **lanród Éireann Irish Rail**

Designer: **Jacobs**  
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CONCEPT DESIGN CCA 6.1 OPTION A PLAN**

Drawing status: **Accepted**

State Code	Contract / Work Package 6.1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:5000	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
	7694- CCA6.1	- P2 -	
	Type	Discipline	Originator
	DWG - CV	- JAC	- 0100



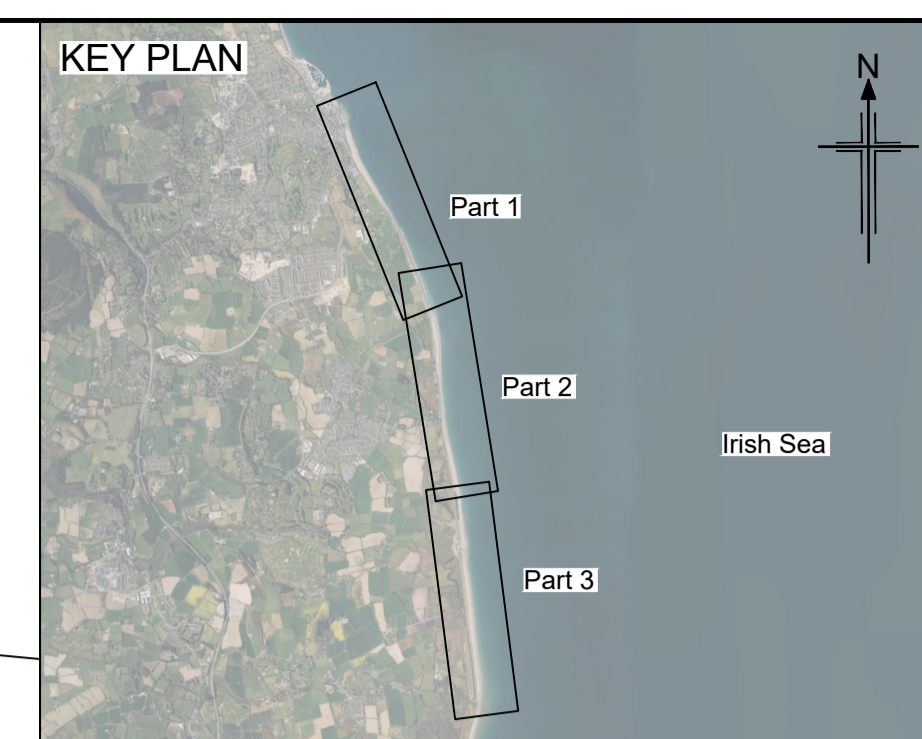
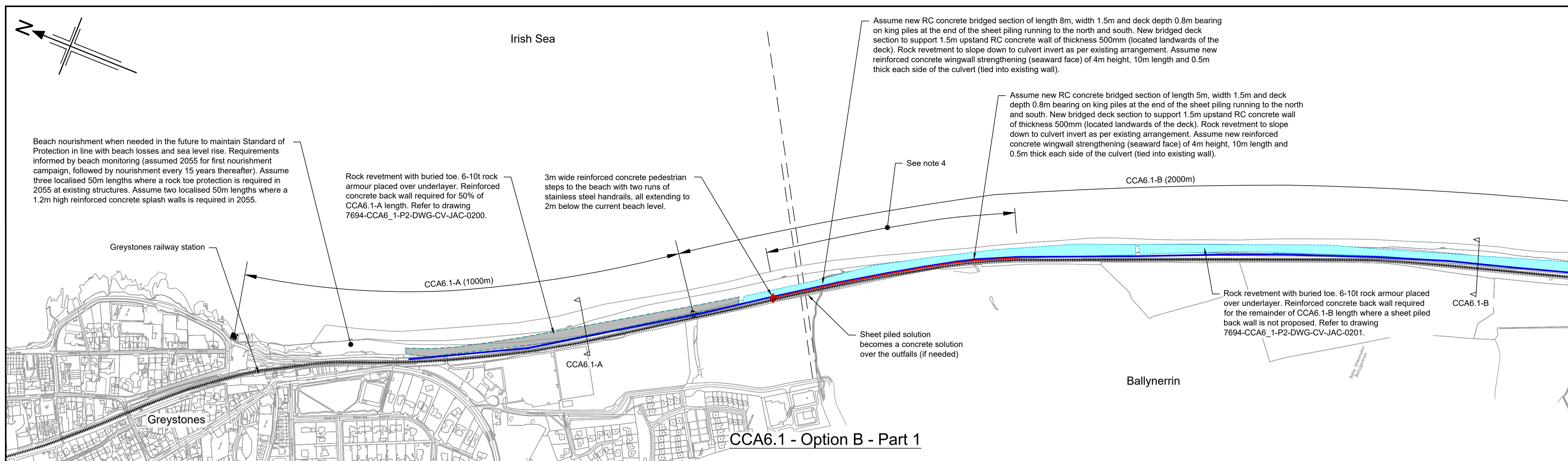
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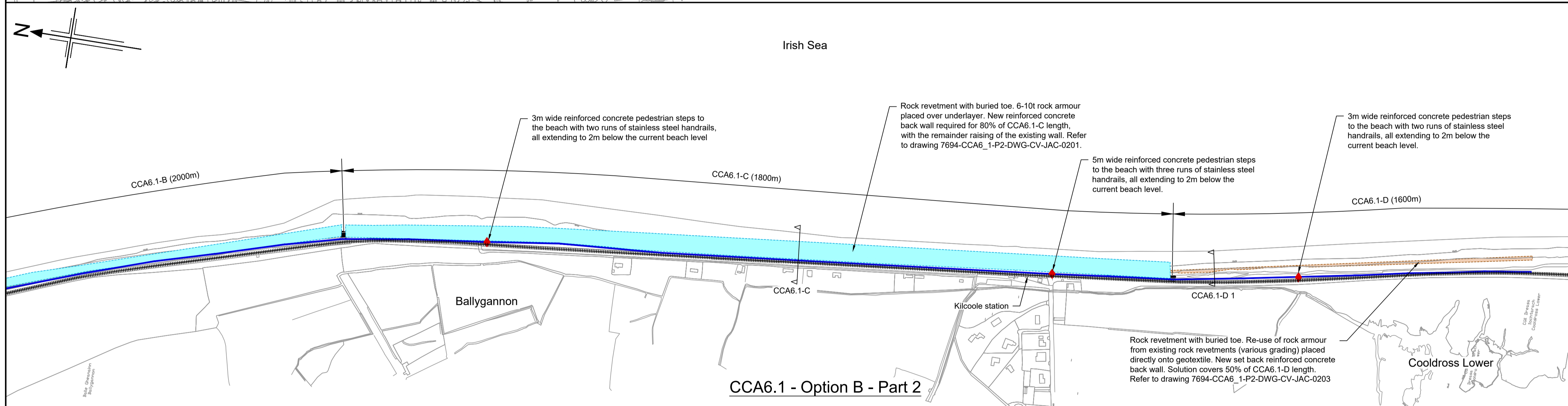
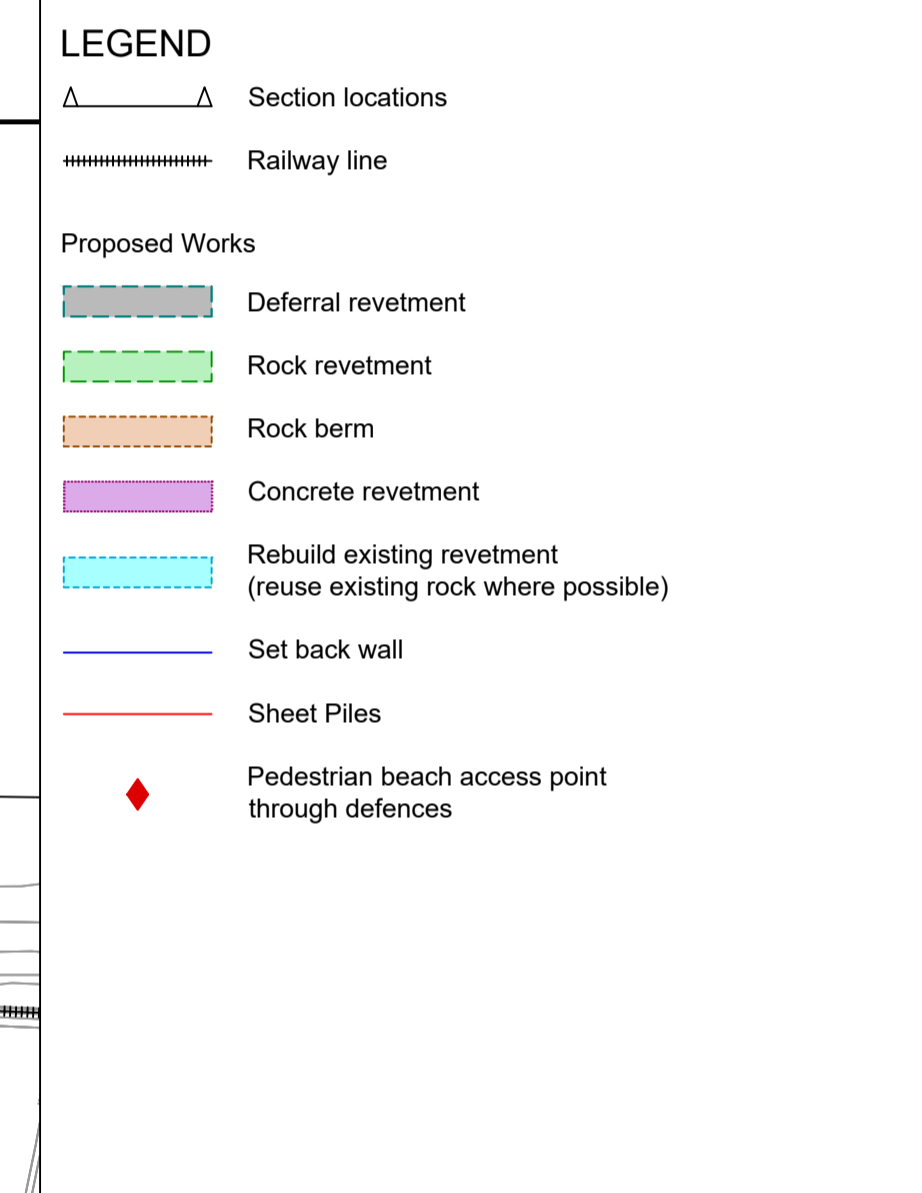
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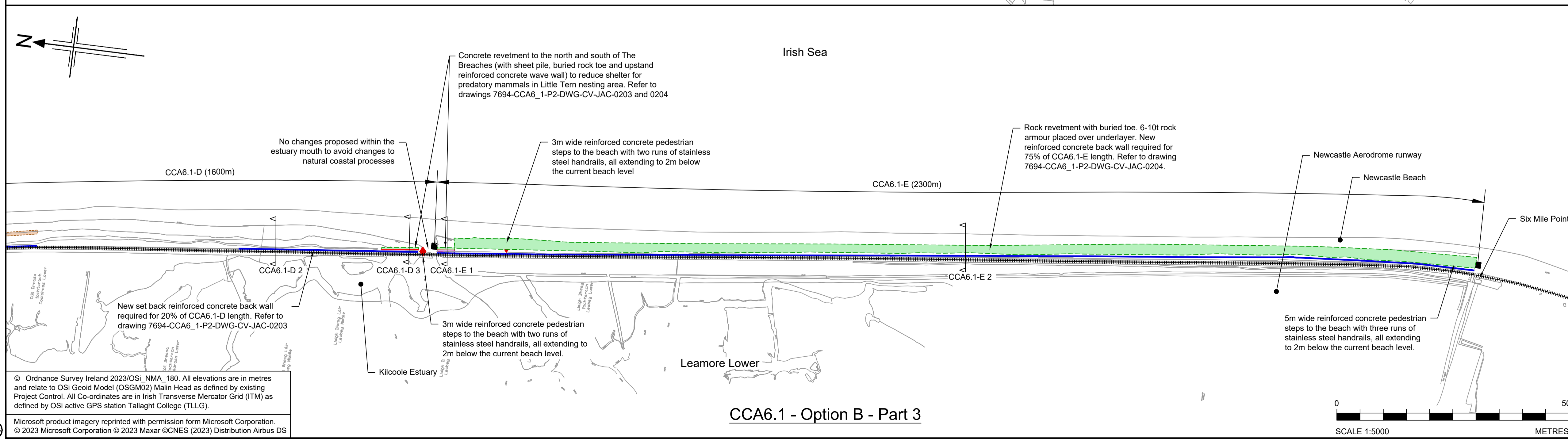




- NOTES
- All levels are in mODM.
  - Do not scale from this drawing.
  - Size and location of all structures is indicative only and to be determined through design development.
  - 530m length where steel sheet piling (10m pile length) required landward of railway fence line to create upstand reinforced concrete flood wall 1.5m high and 0.5m width. Refer to Detail 1 drawing 7694-CCA6\_1-P2-DWG-CV-JAC-0201.
  - Option B seeks to defer works until they are needed. Deferred works will likely be required in all locations where there is not a full rock revetment. This will provide the long term standard of protection. These deferred works are proposed to be beach nourishment at Greystones and the rebuilding of all rock berms with larger rock revetments elsewhere (as per Option A). The works outlined on this plan comprise the initial capital works only. The deferred works are omitted from this drawing for clarity.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	24.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	30.11.2023	Draft Issue For Information	PC	JG	JUD	DK



Client: **lanród Éireann Irish Rail**

Designer: **JACOBS**  
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CONCEPT DESIGN CCA 6.1 OPTION B PLAN**

Drawing status: **Accepted**

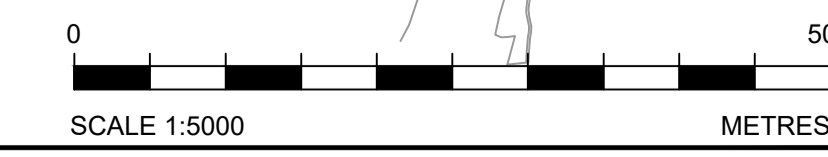
State Code	Contract / Work Package 6.1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:5000	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
	7694-	CCA6.1	- P2 -
	Type	Discipline	Originator
	DWG	- CV -	JAC
			Number
			- 0101

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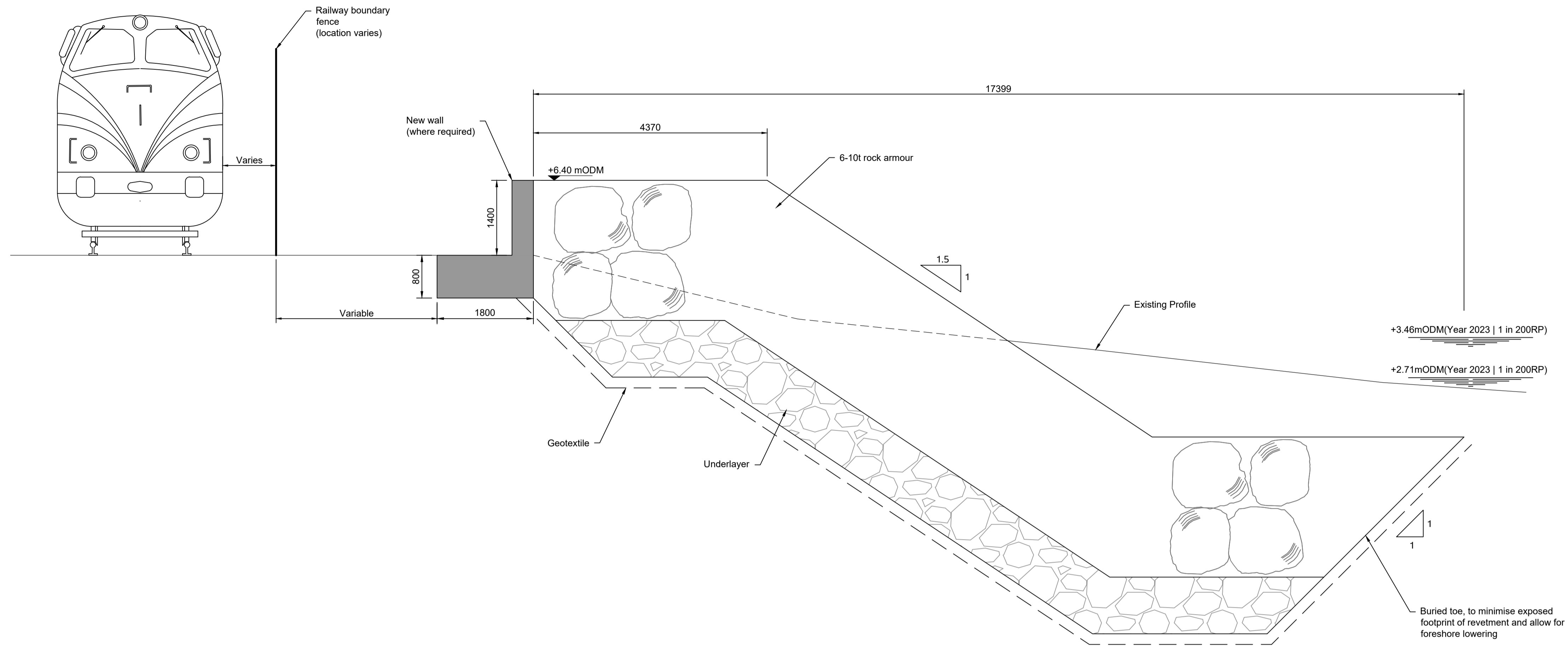
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CCA6.1 A OPTION A & B - TYPICAL CROSS SECTION ROCK REVETMENT  
Scale 1:50

- Notes:**
- All levels are in mODM
  - Do not scale from this drawing.
  - Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
  - Existing structure details are approximate only.
  - All levels and dimensions are approximate and to be confirmed through design development.
  - Designs will be updated on completion of the 2023 UAV survey as the topography and existing structure profiles are currently taken from OPW Lidar, 2011 which we do not believe is fully representative of the existing shoreline profile through this CCA. It is intended to limit the excavation at the shoreline for construction of the revetment. Therefore, should the updated survey data indicate that the excavation depths shown will be problematic from a construction perspective a steel sheet pile may be considered as an alternative to the concrete crown walls and the toe detail could be revised (raised).
  - For cross section locations refer to drawing 7694-CCA6\_1-P2-DWG-CV-JAC-0100.

**Legend**

- New Reinforced Concrete Wall
- Geotextile

**mODM**

- +1.99 HAT
- +1.59 MHWS
- +0.89 MWHN
- 0.11 MSL
- 1.01 MLWN
- 1.81 MLWS
- 2.61 LAT

**TIDE BAR  
DUBLIN NORTH WALL  
(STANDARD PORT)**

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	24-01-2024	Comments addressed	AE	JG	JUD	DK
A.1	30-11-2023	Draft issue for information	AE	JG	JUD	DK
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Client

Designer:   
Merrion House, Merrion Rd, Dublin 4,  
Ireland, D04R2C3, Tel: +44 (0)203 9802000  
www.jacobs.com

Project

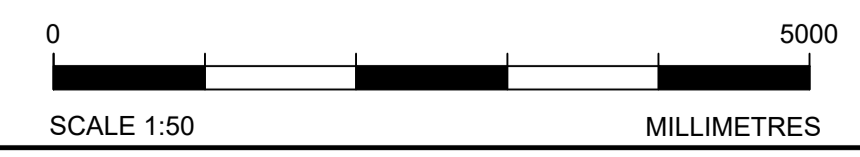
Drawing title  
**CCA6.1-A  
CROSS SECTIONS  
OPTION A & B**

Drawing status: **Accepted**

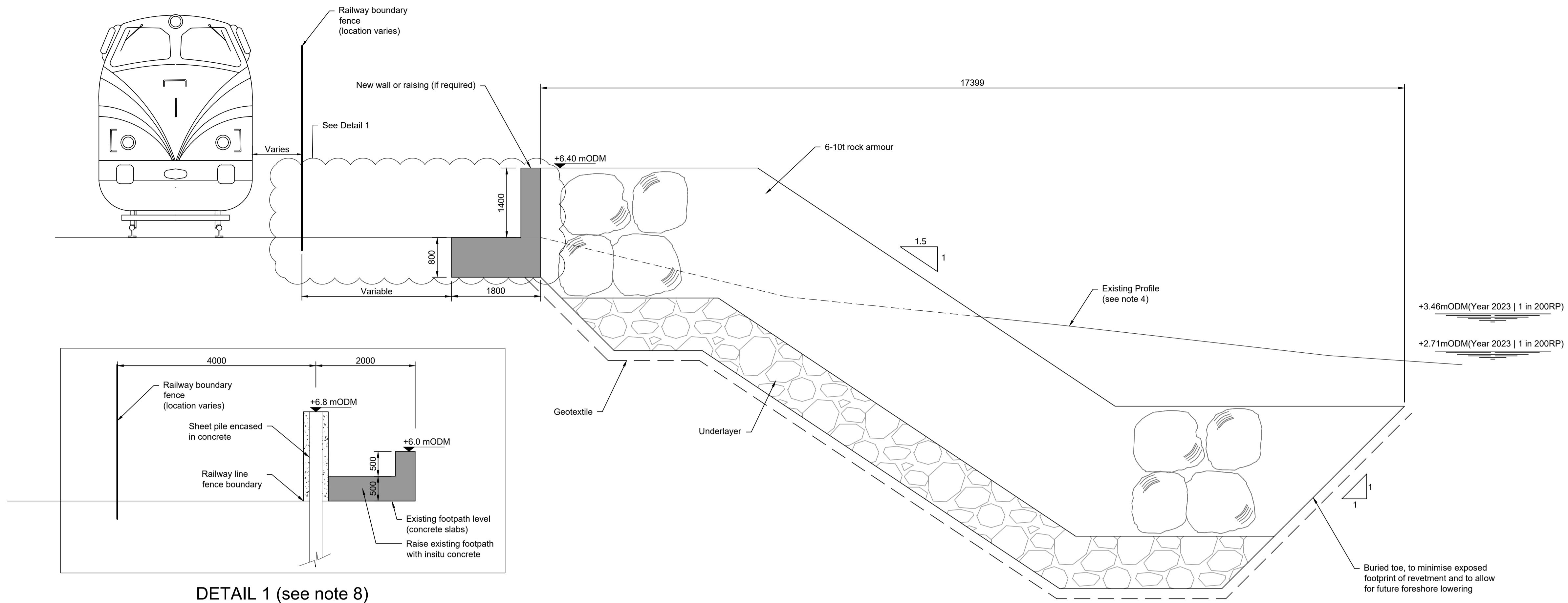
State Code	Contract / Work Package 6.1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	Rev	<b>DO NOT SCALE</b>
Jacobs No.	D3658300	Rev	<b>V01</b>
Client no.	7694		
Drawing number	Project No	Work Package	Phase
	<b>7694-</b>	<b>CCA6_1</b>	<b>-P2</b>
Type	Discipline	Originator	Number
<b>DWG</b>	<b>- CV</b>	<b>- JAC</b>	<b>- 0200</b>

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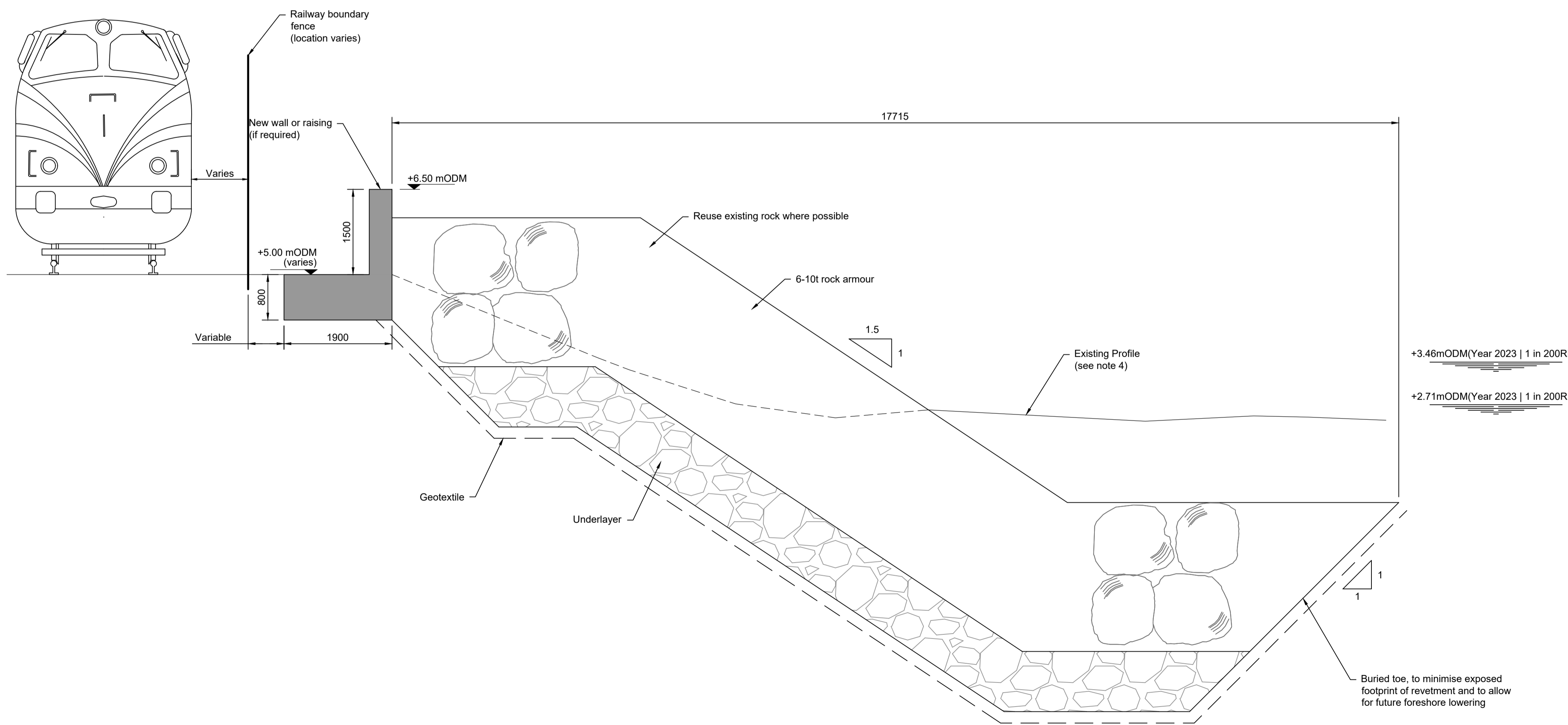


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DETAIL 1 (see note 8)  
Scale 1:50

CCA6.1-B OPTION A & B - TYPICAL CROSS SECTION REBUILD OF EXISTING REVETMENT  
Scale 1:50



CCA6.1-C OPTION A & B - TYPICAL CROSS SECTION REBUILD OF EXISTING REVETMENT  
Scale 1:50

Notes:

- All levels are in mODM
- Do not scale from this drawing.
- Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
- Existing profile is approximate and includes existing rock revetment. Existing rock revetment to be removed and where possible rock reused within the new works.
- All levels and dimensions are approximate and to be confirmed through design development.
- Designs will be updated on completion of the 2023 UAV survey as the topography and existing structure profiles are currently taken from OPW Lidar, 2011 which we do not believe is fully representative of the existing shoreline profile through this CCA. It is intended to limit the excavation at the shoreline for construction of the revetment. Therefore, should the updated survey data indicate that the excavation depths shown will be problematic from a construction perspective a steel sheet pile may be considered as an alternative to the concrete crown walls and the toe detail could be revised (raised).
- For cross section locations refer to drawing 7694-CCA6\_1-P2-DWG-CV-JAC-0100 and 0101.
- Detail 1 applies to approximately 500m length (refer to drawing 7694-CCA6\_1-P2-DWG-CV-JAC-0100 and 0101 for location) where there is limited space for access and construction of a concrete wave wall.

Legend

- New Reinforced Concrete Wall
- Geotextile

mODM

- +1.99 HAT
- +1.59 MHWS
- +0.89 MWHN
- 0.11 MSL
- 1.01 MLWN
- 1.81 MLWS
- 2.61 LAT

TIDE BAR  
DUBLIN NORTH WALL  
(STANDARD PORT)

V01	29-02-2024	Client Accepted	AE	RM	JG	DK
B	24-01-2024	Comments addressed	AE	JG	JUD	DK
A.1	30-11-2023	Draft issue for information	AE	JG	JUD	DK
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Client: **lanród Éireann Irish Rail**

Designer: **Jacobs**  
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CCA6.1-B AND C CROSS SECTIONS OPTIONS A & B**

Drawing status: **Accepted**

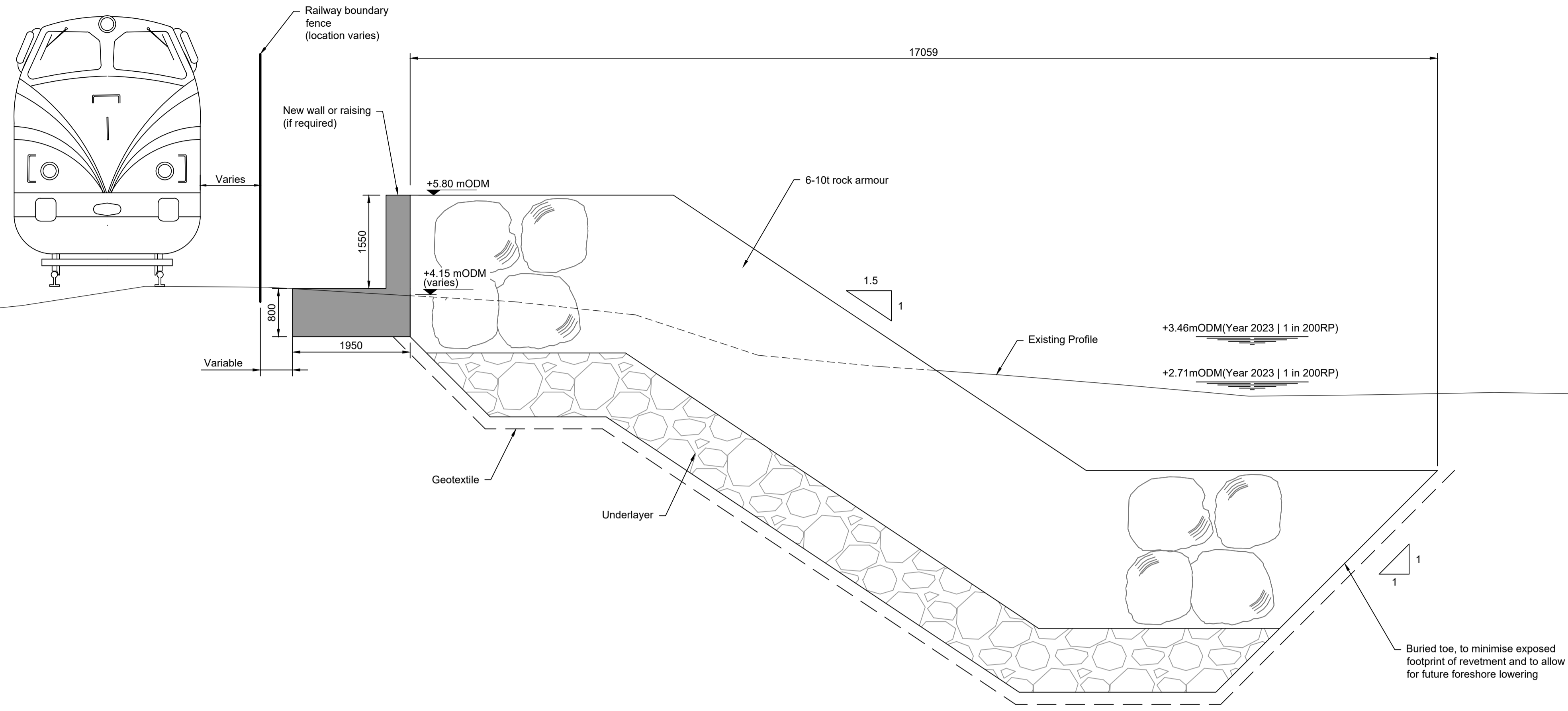
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Project Stage	Project Concept, Feasibility & Option Selection	
Scale	1:50	DO NOT SCALE
Jacobs No.	D3658300	Rev V01
Client no.	7694	

Drawing number	Project No	Work Package	Phase
7694- CCA6_1 - P2 -			
DWG - CV - JAC			
	Type	Discipline	Originator
			Number
			0201

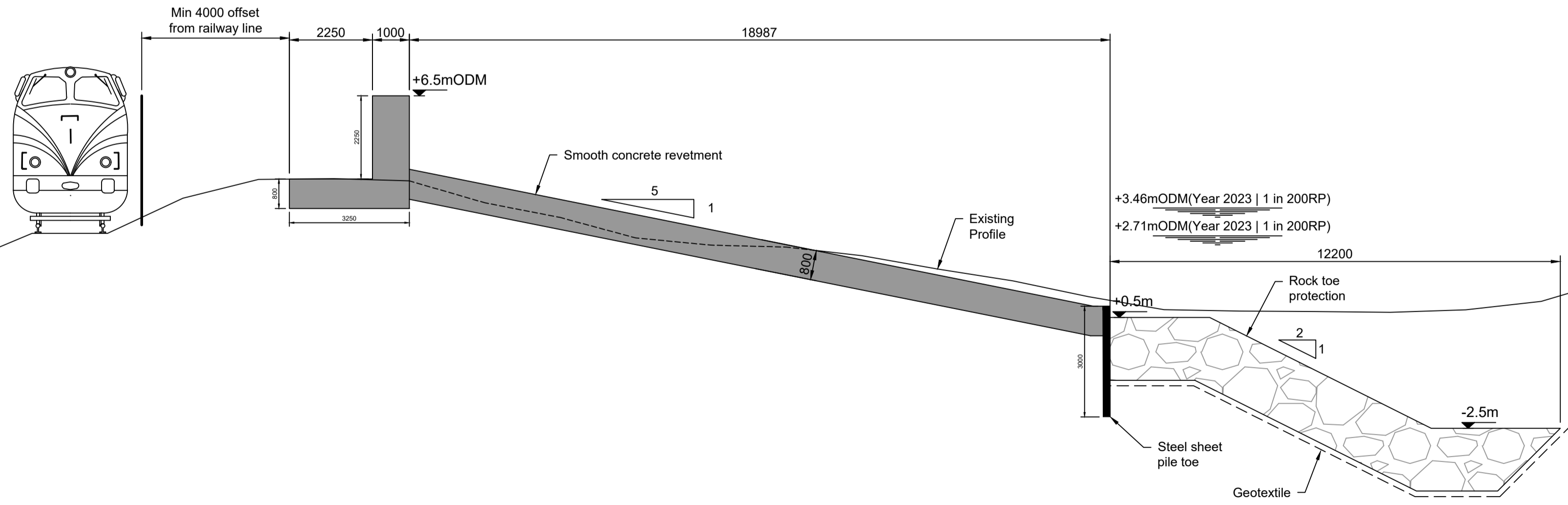


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CCA6.1-D1 OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT  
Scale 1:50



CCA6.1-D2 OPTION A - TYPICAL CROSS SECTION CONCRETE REVETMENT WITH ROCK TOE PROTECTION  
Scale 1:100

- Notes:**
- All levels are in mODM
  - Do not scale from this drawing.
  - Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
  - All levels and dimensions are approximate and to be confirmed through design development.
  - Designs will be updated on completion of the 2023 UAV survey as the topography and existing structure profiles are currently taken from OPW Lidar, 2011 which we do not believe is fully representative of the existing shoreline profile through this CCA. It is intended to limit the excavation at the shoreline for construction of the revetment. Therefore, should the updated survey data indicate that the excavation depths shown will be problematic from a construction perspective a steel sheet pile may be considered as an alternative to the concrete crown walls and the toe detail could be revised (raised).
  - For cross section locations refer to drawing 7694-CCA6\_1-P2-DWG-CV-JAC-0100.

**Legend**

- New Reinforced Concrete Wall
- Geotextile

mODM

+1.99	HAT
+1.59	MHWS
+0.89	MWHN
-0.11	MSL
-1.01	MLWN
-1.81	MLWS
-2.61	LAT

**TIDE BAR**  
DUBLIN NORTH WALL  
(STANDARD PORT)

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29-02-2024	Client Accepted	AE	RM	JG	DK
B	24-01-2024	Comments addressed	AE	JG	JUD	DK
P01.1	17-11-2023	Draft issue for information	AE	JG	JUD	DK

Client:

Designer:   
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C3, Tel: +44 (0)203 9802000  
www.jacobs.com

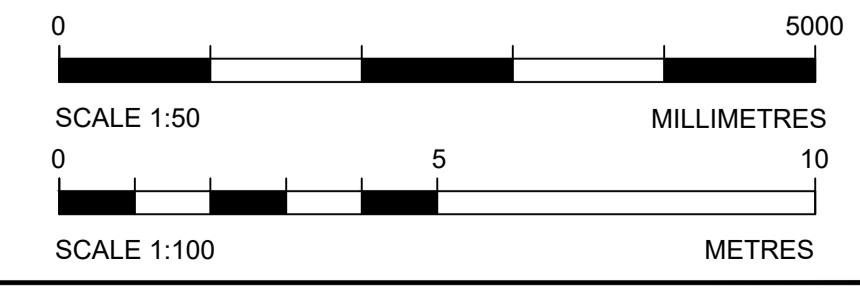
Project:

Drawing title: **CCA6.1 D CROSS SECTION OPTION A**

Drawing status: **Accepted**

State Code	Contract / Work Package 6.1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	As Shown	DO NOT SCALE	Rev
Jacobs No.	D3658300	Rev	V01
Client no.	7694		

Drawing number	Project No	Work Package	Phase
7694-	CCA6_1	-P2	-
Type	Discipline	Originator	Number
DWG - CV	- JAC	-	0202



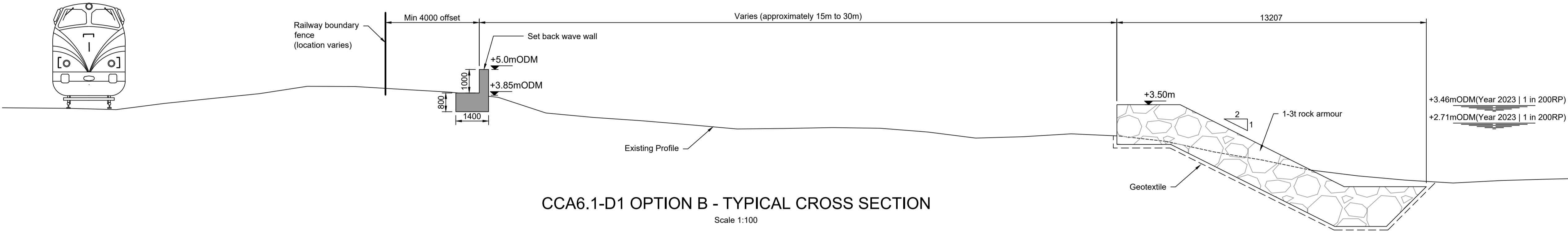
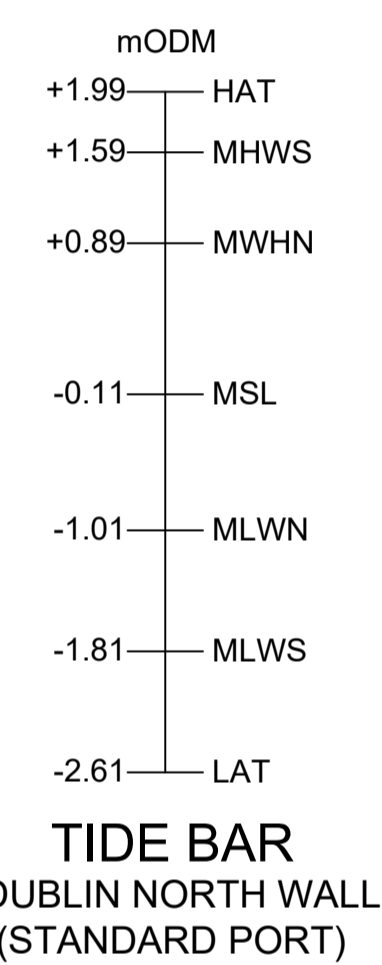
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- Notes:**
- All levels are in mODM
  - Do not scale from this drawing.
  - Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
  - All levels and dimensions are approximate and to be confirmed through design development.
  - Designs will be updated on completion of the 2023 UAV survey as the topography and existing structure profiles are currently taken from OPW Lidar, 2011 which we do not believe is fully representative of the existing shoreline profile through this CCA. It is intended to limit the excavation at the shoreline for construction of the revetment. Therefore, should the updated survey data indicate that the excavation depths shown will be problematic from a construction perspective a steel sheet pile may be considered as an alternative to the concrete crown walls and the toe detail could be revised (raised).
  - For cross section locations refer to drawing 7694-CCA6\_1-P2-DWG-CV-JAC-0101.
  - Designated area for Little Terns Breeding therefore no works proposed seaward of the wave wall.

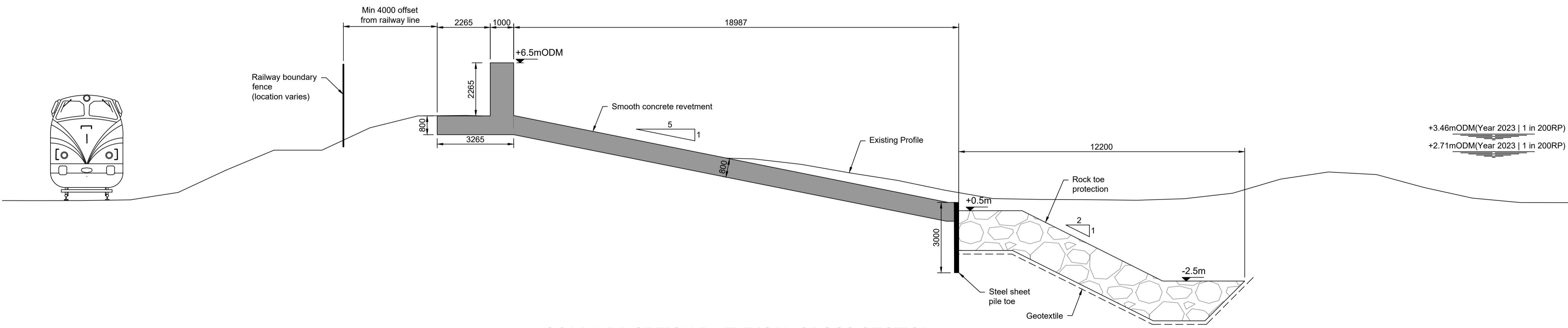
- Legend**
- New Reinforced Concrete Wall
  - Geotextile



**CCA6.1-D1 OPTION B - TYPICAL CROSS SECTION**  
Scale 1:100



**CCA6.1-D2 OPTION B - TYPICAL CROSS SECTION (SEE NOTE 7)**  
Scale 1:100



**CCA6.1-D3 OPTION B - TYPICAL CROSS SECTION**  
Scale 1:100

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29-02-2024	Client Accepted	AE	RM	JG	DK
B	24-01-2024	Comments addressed	AE	JG	JUD	DK
P01.1	17-11-2023	Draft issue for information	AE	JG	JUD	DK

Client: Iarnród Éireann  
Irish Rail

Designer: Jacobs  
Merrion House, Merrion Rd, Dublin 4,  
Ireland, D04R2C3. Tel: +44 (0)203 9802000  
www.jacobs.com

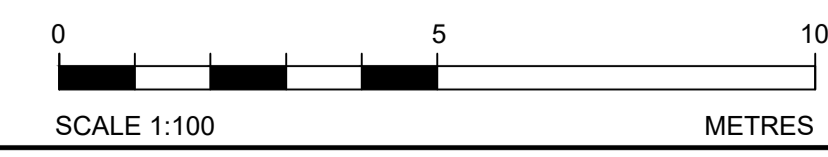
Project: ECRIPP  
Iarnród Éireann

Drawing title: **CCA6.1 D  
CROSS SECTIONS  
OPTION B**

Drawing status: **Accepted**

State Code	Contract / Work Package 6.1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:100	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		

Drawing number: **7694- CCA6\_1 -P2 -**  
Type: **DWG - CV - JAC** | Discipline: **JAC** | Originator: **JAC** | Number: **- 0203**



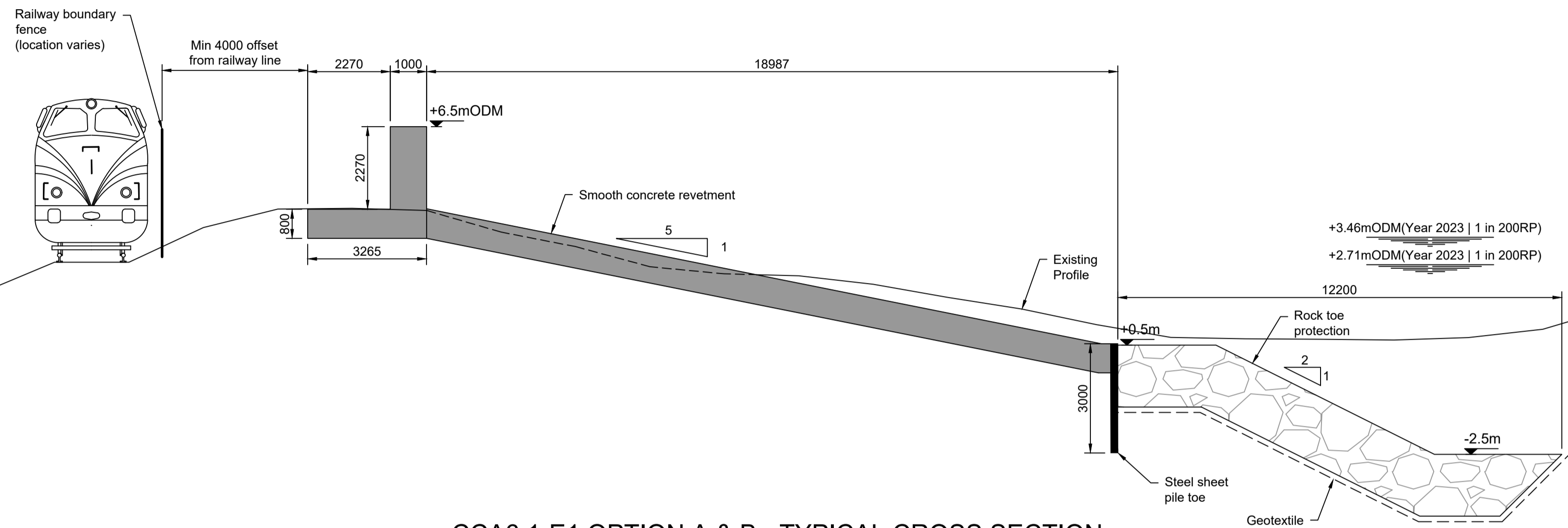
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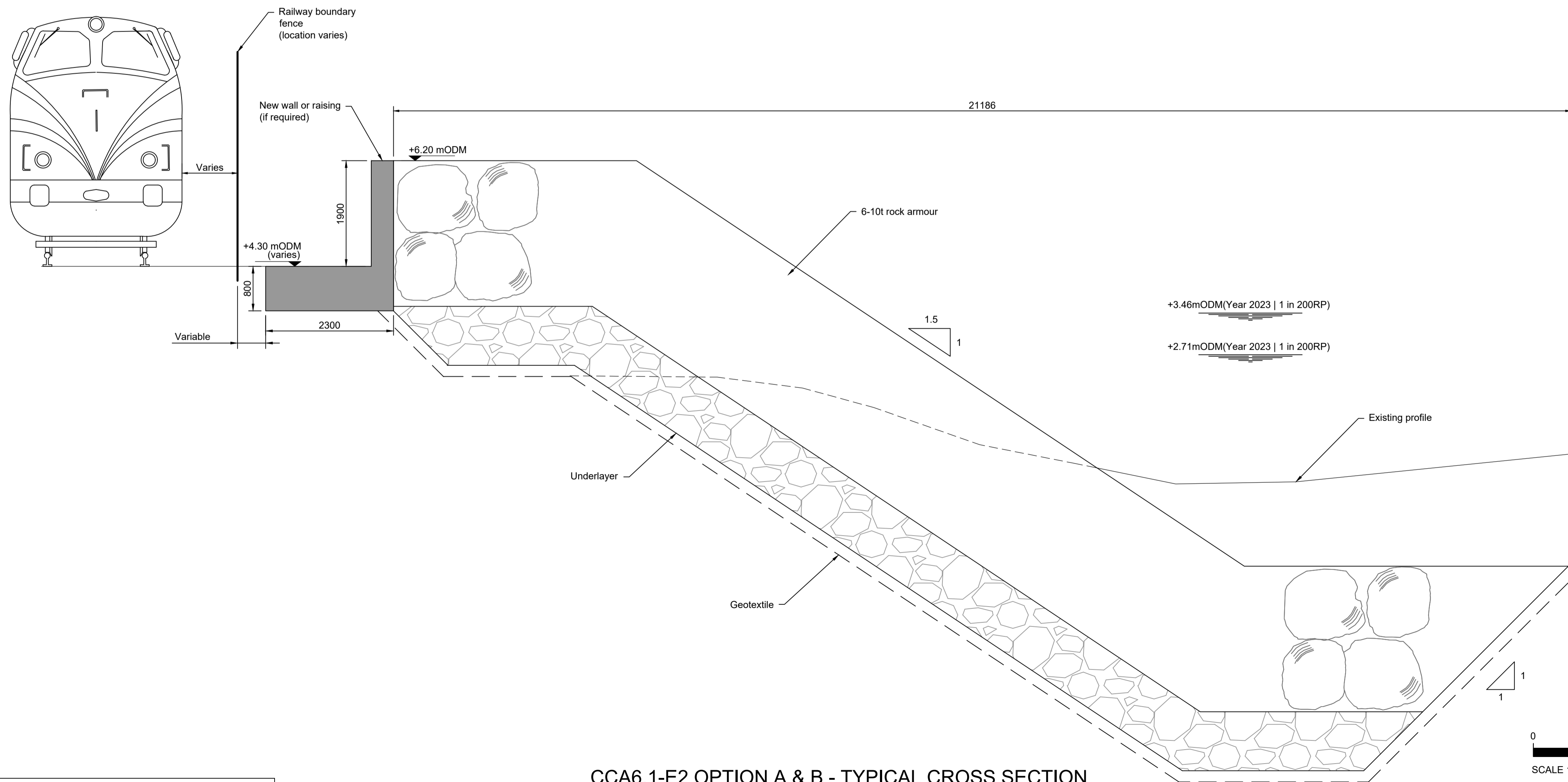
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CCA6.1-E1 OPTION A & B - TYPICAL CROSS SECTION  
Scale 1:100



CCA6.1-E2 OPTION A & B - TYPICAL CROSS SECTION  
Scale 1:50

- Notes:**
- All levels are in mODM
  - Do not scale from this drawing.
  - Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
  - All levels and dimensions are approximate and to be confirmed during design development.
  - Designs will be updated on completion of the 2023 UAV survey as the topography and existing structure profiles are currently taken from OPW Lidar, 2011 which we do not believe is fully representative of the existing shoreline profile through this CCA. It is intended to limit the excavation at the shoreline for construction of the revetment. Therefore, should the updated survey data indicate that the excavation depths shown will be problematic from a construction perspective a steel sheet pile may be considered as an alternative to the concrete crown walls and the toe detail could be revised (raised).
  - For cross section locations refer to drawing 7694-CCA6\_1-P2-DWG-CV-JAC-0100 and 0101.

**Legend**

- New Reinforced Concrete Wall
- Geotextile

**TIDE BAR DUBLIN NORTH WALL (STANDARD PORT)**

mODM
+1.99 HAT
+1.59 MHWS
+0.89 MWHN
-0.11 MS�
-1.01 MLWN
-1.81 MLWS
-2.61 LAT

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29-02-2024	Client Accepted	AE	RM	JG	DK
B	24-01-2024	Comments addressed	AE	JG	JUD	DK
A.1	30-11-2023	Draft issue for information	AE	JG	JUD	DK

Client:

Designer:   
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5, Tel: +44 (0)203 9802000 www.jacobs.com

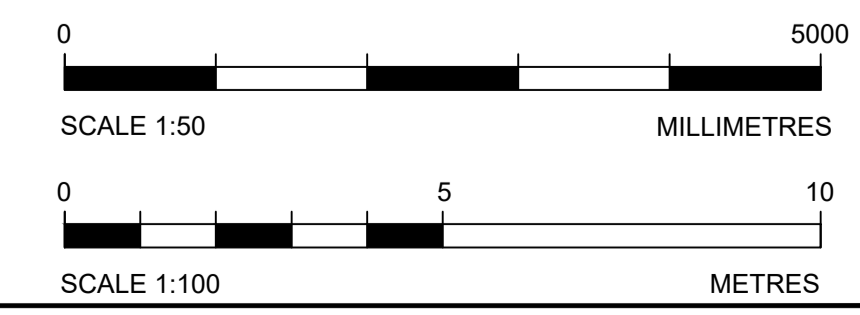
Project:

Drawing title: **CCA6.1-E CROSS SECTIONS OPTIONS A & B**

Drawing status: **Accepted**

State Code	Contract / Work Package 6.1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	As Shown	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		

Drawing number: **7694- CCA6\_1 -P2 - DWG- CV - JAC - 0204**



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